



2024 Annual Water Quality Report

Iowa City Landfill and Recycling Center
Permit No. 52-SDP-01-72P

City of Iowa City, Iowa
Submittal Date: February 28, 2025



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Executive Summary

This 2024 Annual Water Quality Report (AWQR) summarizes groundwater monitoring activities, associated data, and statistical analyses prepared by HDR Engineering, Inc. (HDR), on behalf of the City of Iowa City (City) for the City of Iowa City Sanitary Landfill (Landfill) during the 2024 calendar year. These activities were conducted in general accordance with Iowa Administrative Code (IAC) 567 Chapter 113.10, and the additional Iowa Department of Natural Resources (IDNR) requirements specified in the Landfill's solid waste disposal permit number 52-SDP-01-72P, subsequent permit amendments, and the most recently approved Hydrologic Monitoring System Plan (HMSP).

Period of Report Coverage

This AWQR is for the period from January 1, 2024, through December 31, 2024. This report summarizes results from the April 29 to May 7, 2024, and October 9 to 15, 2024, Semiannual Groundwater Compliance Monitoring Events. This report also includes the Leachate Control System Performance Evaluation Report (LCSPER) and the Methane Migration Monitoring Report (MMMR) for the 2024 monitoring period. As required by the solid waste disposal permit, the 2024 AWQR also includes the 2024 LCSPER (**Appendix F**) and the 2024 MMMR (**Appendix G**).

Detection Monitoring

During the 2024 reporting period, groundwater underdrain locations ST-1, WT-1, WT-2, WT-3, and WT-4 were the only locations monitored under the Detection Monitoring Program. Statistically significant increases (SSIs) were detected in groundwater samples collected during the October 2024 Semiannual Compliance Monitoring Event from underdrains WT-1 (chromium, cobalt, copper, lead, and vanadium), WT-3 (barium, lead, and vanadium), and WT-4 (barium, cobalt, lead, and vanadium). Per the underdrain discharge management plan dated September 20, 2023 (**IDNR Doc #107723**), constituent concentrations measured in the WT-OF sample were compared to the intrawell upper prediction limits (UPL) of the constituents identified as SSIs in the individual discharge points [WT-1 (chromium, cobalt, copper, lead, and vanadium), WT-3 (barium, lead, and vanadium), and WT-4 (barium, cobalt, lead, and vanadium)]. Each concentration measured in the WT-OF sample for the October 2024 Semiannual Compliance Monitoring Event was below the respective intrawell UPL for each constituent identified as an SSI at Monitoring Locations WT-1, WT-2, and WT-4.

The groundwater underdrain monitoring locations will continue to be monitored under the Detection Monitoring Program during the next Semiannual Compliance Monitoring Event.

Assessment Monitoring

During the 2024 reporting period, select groundwater monitoring wells were monitored under the Assessment Monitoring Program. Wells being monitored under the Assessment Monitoring Program are summarized on the attached **Table 1**. For the October 2024 Semiannual Compliance Monitoring Event, SSIs were identified in Monitoring Wells MW-18AR (cis-1,2-dichloroethene, dichlorodifluoromethane, tetrachloroethene, and trichloroethene) and MW-200A

(barium). These SSIs have previously been detected at the Landfill in these monitoring wells. Confidence interval analysis for these SSIs did not indicate that these constituent concentrations exceeded a groundwater protection standard (GWPS) at a statistically significant level (SSL) for the October 2024 Semiannual Compliance Monitoring Event.

The monitoring wells monitored under the Assessment Monitoring Program during the October 2024 Semiannual Compliance Monitoring Event will continue to be monitored under the Assessment Monitoring Program during the next Semiannual Compliance Monitoring Event.

AZPOC Monitoring Locations

During the 2024 reporting period, attenuation zone point of compliance (AZPOC) monitoring locations were monitored under the Assessment Monitoring Program. For the October 2024 Semiannual Compliance Monitoring Event, potential SSIs were identified for Monitoring Well MW-10B (selenium and toluene). The October 2024 compliance monitoring event is the first monitoring event where selenium and toluene have been detected above laboratory reporting limits (RLs) at Monitoring Well MW-10B. Since these are the initial detections of these constituents at MW-10B, a verification sampling event will be conducted to confirm these SSIs. The verification monitoring event will be conducted prior to the next Semiannual Compliance Monitoring Event. If an SSI is confirmed at MW-10B, the Appendix II constituent list will be analyzed in the groundwater sample collected during the next Semiannual Compliance Monitoring Event.

The AZPOC monitoring wells are proposed to continue to be monitored under the Assessment Monitoring Program during the next Semiannual Compliance Monitoring Event. As indicated in the 2024 Spring Sampling Notification dated June 25, 2024 (**IDNR Doc #110314**), a discussion summarized that the corrective remedy has satisfied the remedy completion requirements of IAC 113.10(9)"e"(1) and (2), and it was requested that IDNR communicate what actions may be required in accordance with IAC 113.10(9)"e"(3) to complete the remedy. If IDNR concurs with the summary in the spring notification, the City requests guidance on next steps on continued corrective action monitoring in regards to the AZPOC monitoring wells.

Corrective Action Monitoring

During the 2024 reporting period, corrective action bracketing wells were used to evaluate the horizontal and vertical extent of groundwater impact and to assess changes. For the October 2024 Semiannual Compliance Monitoring Event, constituents were detected above GWPSs at Bracketing Wells MW-18A-07 (tetrachloroethene, trichloroethene, and vinyl chloride) and MW-409 (arsenic). In a letter dated November 13, 2024 (**IDNR Doc #111328**), HDR recommended that Monitoring Well MW-18A-07 transition from a bracketing well to a source characterization monitoring well. IDNR concurred with this transition in a revised operating permit dated December 2, 2024 (**IDNR Doc #111413**). Beginning with the first Semiannual Compliance Monitoring Event of 2025, MW-18A-07 will be monitored in accordance with the source characterization monitoring program.

During the 2024 reporting period, source characterization monitoring wells were monitored for trends in monitored constituents and changes in natural attenuation parameters (total organic

carbon [TOC], nitrate as nitrogen, iron, manganese, and sulfate) to evaluate if groundwater impact was increasing or decreasing based on the selected corrective action remedy.

For the October 2024 Semiannual Compliance Monitoring Event, statistically significant increasing trends were identified for the following well-constituent pairs:

- cis-1,2-dichloroethene: MW-16A,
- Nickel: MW-209B.

For the October 2024 Semiannual Compliance Monitoring Event, statistically significant decreasing trends were identified for the following well-constituent pairs:

- cis-1,2-dichloroethene: MW-206A,
- Dichlorodifluoroethane: MW-16A,
- 1,1-dichloroethane: MW-206A.

Based on the natural attenuation parameters, changes in groundwater chemistry at the source characterization monitoring wells appear to indicate that impact is being reduced and groundwater quality is improving. The only exception would be Monitoring Well MW-211B. Recent TOC, iron, and manganese concentrations at Monitoring Well MW-211B have been elevated when compared to values measured in 2015 and 2016. Further sampling data will be needed to confirm if the organic plume is shifting near Monitoring Well MW-211B and would further degrade groundwater quality.

Conclusion and Recommendations

The following conclusions are made and actions recommended for the continuation of groundwater compliance monitoring at the Landfill:

1. A majority of the groundwater impact is present in monitoring wells adjacent to the Non-Subtitle D Areas (Northern and Eastern Unlined/Clay-Lined Cells) of the Landfill. The sources of impact have been previously identified. Some areas are being influenced by leachate migration while landfill gas migration is the primary source of impact in other areas.
2. The corrective action remedy of source control via leachate and landfill gas management systems along with monitored natural attenuation has been implemented.
3. AZPOC monitoring wells are being utilized to monitor progress of the corrective action remedy. As indicated in the 2024 Spring Sampling Notification dated June 25, 2024 (**IDNR Doc #110314**), it was discussed that sufficient data has been obtained to indicate the corrective action remedy goals have been met. The City is requesting IDNR's response to the summary and recommended next steps, if any.
4. Evaluation of the natural attenuation parameters indicates that natural attenuation processes are occurring in the groundwater adjacent to the Landfill. However, further assessment would be needed at Monitoring Well MW-211B since recent parameter concentrations indicate groundwater impact may be increasing.
5. Continue collecting water level and well depth measurements, if scheduled, on a semiannual basis at each HMSP approved monitoring location.



6. Conduct groundwater monitoring at each HMSP approved monitoring location under the respective monitoring program as summarized on **Table 1** and **Table 2**.

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Acronyms/Abbreviations:

ACM = Assessment of Corrective Measures
AMSL = Above Mean Sea Level
ASD = Alternative Source Demonstration
AWQR = Annual Water Quality Report
AZPOC = Attenuation Zone Point of Compliance
CAMP = Corrective Action Monitoring Program
CI = Confidence Interval
DO = Dissolved Oxygen
DQR = Double Quantification Rule
GWPS = Groundwater Protection Standard
HDR = HDR Engineering, Inc.
HIR = Hydrogeologic Investigation Reports
HMSP = Hydrologic Monitoring System Plan
IAC = Iowa Administrative Code
IDNR = Iowa Department of Natural Resources
LCL = Lower Confidence Limit
LCS = Laboratory Control Sample
LCSD = Laboratory Sample Duplicate
LN = Lognormal
MCL = EPA Maximum Contaminant Level
MDL = Method Detection Limit
MS = Matrix Spike
MSD = Matrix Spike Duplicate
ORP = Oxidation Reduction Potential
UPL = Upper Prediction Limit
RCRA = Resource Conservation and Recovery Act
RL = Reporting Limit
RPD = Relative Percent Difference
SS = Statewide Standard (IDNR) for a protected groundwater source
SSI = Statistically Significant Increase above background
SSL = Statistically Significant Level above GWPS
UCL = Upper Confidence Limit

Note this list is a comprehensive list of common acronyms. All acronyms listed above may not have been used in the following report and/or attached tables



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Certification

I hereby certify that this report was prepared by me or under my direct personal supervision and that I am a qualified groundwater scientist based on the requirements noted in IAC 567—113.10(1)“d”.



2/28/2025

Richard Wilson

Date

Pages or sheets covered by this signature:

All

*Certification page (PE or ground water scientist signature) **113.10(1)“d”***

For the purposes of this rule, a “qualified groundwater scientist” means a scientist or an engineer who has received a baccalaureate or postgraduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields demonstrated by state registration, professional certifications, or completion of accredited university programs that enable that individual to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.



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1 Purpose

This 2024 Annual Water Quality Report (AWQR) summarizes groundwater monitoring activities, associated data, and statistical analyses that were prepared by HDR Engineering, Inc. (HDR), on behalf of the City of Iowa City (City) for the City of Iowa City Sanitary Landfill (Landfill) for the reporting period of January 1, 2024, through December 31, 2024. These activities were conducted in general accordance with Iowa Administrative Code (IAC) 567 Chapter 113.10, and the additional Iowa Department of Natural Resources (IDNR) requirements specified in the Landfill's solid waste disposal permit number 52-SDP-01-72P, subsequent permit amendments, and the most recently approved Hydrologic Monitoring System Plan (HMSP). As required by the solid waste disposal permit, the 2024 AWQR also includes the 2024 Leachate Control System Performance Evaluation Report (**Appendix F**) and the 2024 Methane Migration Monitoring Report (**Appendix G**).

2 Site Background

The City's Landfill and Recycling Center is located at 3900 Hebl Avenue Southwest, Iowa City, Iowa 52246. The Municipal Solid Waste Landfill (MSWLF) area is legally described as being located in the SE $\frac{1}{4}$; most of the E $\frac{1}{2}$ and NW $\frac{1}{4}$ of the SW $\frac{1}{4}$; most of the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$; the S $\frac{1}{2}$ of the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$; and 80 rod by 6 rod parcel off the S side of the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$; all in Section 14, Township 79 North, Range 7 West, Johnson County, Iowa.

The MSWLF began receiving waste in 1972. Initial filling began in the north-central portion of the property. Construction of additional cells progressed to the south along the east side of the property and then northward along the west side of the existing MSWLF cells. Approximately 66.2 acres of the MSWLF are closed, and approximately 71.6 acres are currently active in various stages of service or fill. Cell Fiscal Year (FY) 09 was destroyed by fire in June 2012; a truncated portion of Cell FY09 was rebuilt and reopened in the fall of 2013. Cell FY18 was constructed in the summer of 2018 and is approximately 7.2 acres. Cell FY23 was constructed in 2023 and is approximately 11.0 acres. A site map depicting the characteristics of the MSWLF and surrounding vicinity is provided as **Figure 1**.

All active cells (Cells FY95, FY96, FY98, FY02, FY06, FY09, FY18, and FY23) were constructed with leachate drainage layers and collections systems. Pre-1991 cells have toe drains installed along the downgradient perimeters of those cells.

2.1 Site Status and Applicable Rules

The Landfill provides routine solid waste disposal services for generators in the permitted service area, which includes: all cities and unincorporated area in Johnson County, Iowa and the cities of Kalona and Riverside in Washington County, Iowa.

2.2 Site Geology

Hydrogeologic investigations have been completed at the Landfill. A detailed description of the site's geology and hydrogeology is included in the *Soil and Hydrogeologic Investigation – Proposed Expansion Area, Iowa City Landfill and Recycling Center* dated August 2008 (Howard

R. Green Company, **IDNR Doc #30283**). A summary of the Landfill's geology based on the August 2008 report is included in the following subsections.

2.2.1 Surficial Geology

The Landfill's ground surface elevation varies from 690 feet above mean sea level (AMSL) near the stream in the southeast corner of the facility to 785 feet in the northwest corner of the facility. Surficial deposits include loess, alluvium, glacial till, and glaciofluvial sand deposits. Bulk thickness of the surficial deposits is a function of the underlying bedrock topography and varies from about 90 feet thick in the southern portion of the site near the stream to about 140 feet thick in the north-central area near cell FY72.

Loess varies in thickness from five (5) to 20 feet. Generally present in upland areas of the site and non-existent in lowland alluvial areas.

Alluvium is present along north-south stream valleys located along the east and west sides of the Landfill Property. The confluence for these unnamed stream segments is approximately 0.25 miles south of the Landfill Property. Surface water flow in these unnamed stream segments eventually discharge into Old Man's Creek at a confluence approximately 2.25 miles south of the Landfill Property. The alluvium is generally silt, clay, and silty clay, with thin interbedded silty sand and sand layers. Alluvium thickness increases when moving from north to south along the general surface water flow path of the unnamed stream segments.

Glacial till is present under the alluvial and loess deposits in the area. The glacial till is dominated by clay sediments with thin, discontinuous sand lenses. Weathered till is present in the upper portion of the formation and overlies unweathered till. Weathered till is generally lighter brown or gray color with mottling that is interpreted as oxidation from moving water through the material. Unweathered till is very stiff with a darker gray color and no evidence of oxidation.

Glaciofluvial sand is an intra-till unit which is glacial outwash deposits. The layer, identified as Sand Unit B, is continuous across the site. Sand Unit B is confined by the unweathered till and its thickness is variable due to its outwash origin.

Previous landfill activities and infrastructure have affected surficial geology and hydrogeology at the facility. Specifically, where the construction of landfill cells has penetrated, to varying degrees, into the loess or weathered till, the local groundwater surface flow pattern is modified and lateral continuity of the surficial deposits is disrupted.

2.2.2 Bedrock Geology

The uppermost bedrock at the Landfill is gray, weathered limestone of the Devonian-age Cedar Valley Formation. Depth to bedrock varies from approximately 90 to 140 feet below ground surface. The erosion slope of the bedrock indicates higher bedrock surface elevation in the north (~630 feet AMSL) to a lower elevation in the south (~590 feet AMSL)

2.3 Site Hydrology

The major hydrogeologic units and corresponding order-of-magnitude horizontal hydraulic conductivity (K_h) are the following:

- Loess and weathered glacial till: 10^{-4} centimeters per second (cm/sec),
- Alluvium: 10^{-4} cm/sec,
- Intra-till Sand Unit B: 10^{-3} cm/sec,
- Unweathered glacial till: 10^{-5} cm/sec,
- Limestone Bedrock: 10^{-4} cm/sec.

The water table aquifer traverses loess, weathered till, and alluvium at the Landfill and is considered the uppermost aquifer. Sand Unit B forms the uppermost continuous aquifer across the site. The groundwater in Sand Unit B is confined by unweathered till which provides upper and lower confining units to the glacial outwash aquifer. The limestone bedrock is a regional aquifer.

The uppermost aquifer (water table aquifer) is represented by the A-series wells screened in loess and/or weathered till and the B-series wells screened in alluvium. The confined, continuous aquifer in the glacial outwash, Sand Unit B, is represented by the C-series wells. The confining unweathered till units are represented by the D-series wells (except for MW-17D and MW-18D1 which are screened in weathered till). The Devonian-age limestone bedrock aquifer is represented by the E-series wells.

2.3.1 Horizontal Groundwater Flow

Local and intermediate groundwater flow systems control groundwater movement at the Landfill. Based on groundwater flow evaluations, horizontal groundwater flow is higher relative to vertical groundwater flow due to the low permeability of the unweathered till. Due to the presence of the unweathered till, the uppermost water table aquifer, the confined Sand Unit B aquifer, and bedrock aquifer are hydrologically distinct units, but are not completely isolated from each other.

The unconfined, water table aquifer groundwater flow is generally from the north-northwest and into the adjacent stream valleys on the east-southeast and west-southwest sides of the Landfill. Groundwater flow in the confined, Sand Unit B, aquifer is generally from the north to south. Groundwater flow in the bedrock aquifer is generally from the south-southeast to the north-northwest, but with a relatively flat gradient.

3 Monitoring Network and Sampling Procedures

3.1 Monitoring Network

The HMSP monitoring locations for the site are summarized on the attached **Table 1**. The HMSP monitoring network includes upgradient/background and downgradient monitoring wells for the water table aquifer (A-series and B-series monitored formations) and groundwater underdrain/tile line monitoring locations. With the implementation of the Corrective Action Groundwater Monitoring Program (CAMP) [approved September 2, 2021], the attenuation zone point of compliance (AZPOC) monitoring wells and source characterization monitoring wells were established. **Table 1** summarizes the current monitoring program for each monitoring point. **Table 2** provides the monitoring program implementation plan and sampling schedule for the HMSP and CAMP monitoring networks.

Semiannual detection, assessment, and corrective action monitoring were conducted at the groundwater monitoring locations on April 29 to May 7, 2024. Details regarding the April 29 to May 7, 2024, monitoring event are summarized in **Appendix A** and the 2024 Spring Sampling Notification dated June 25, 2024 (**IDNR Doc #110314**)

Semiannual detection, assessment, and corrective action monitoring were conducted at the groundwater monitoring locations on October 9 to 15, 2024. The monitoring locations sampled during the monitoring event and the constituents analyzed for are summarized on **Table 2**. During the October 2024 Semiannual Compliance Sampling Event, each monitoring location was sampled except for groundwater underdrain ST-1. Field personnel indicated the monitoring location was not discharging during the sampling event.

Completed field sampling forms are included in **Appendix C** and the laboratory analytical reports are provided in **Appendix D** for the October 2024 Semiannual Compliance Monitoring Event. Historical groundwater data is provided in **Appendix E**. Statistical analysis for the October 2024 Semiannual Compliance Monitoring Event is presented in **Appendix B**.

3.2 Sampling Procedures

City of Iowa City personnel conducted the groundwater sampling activities during the Spring and Fall 2024 Semiannual Compliance Monitoring Events. A water level indicator was used to measure the static water level in each of the monitoring wells prior to purging and sampling. Static water levels in site monitoring wells were used to determine the groundwater elevation during the Spring and Fall 2024 Semiannual Compliance Monitoring Events and are shown in the attached **Figure 2** and **Figure 3**, respectively. During the October 2024 Semiannual Compliance Monitoring Event, groundwater elevations at the site's monitoring wells ranged from 683.02 (MW-29A) to 762.59 (MW-18A-07) feet AMSL. Groundwater flow direction is generally from the north-northwest with diversions into the adjacent stream valleys on the east-southeast and west-southwest sides of the Landfill.

In addition to measuring depth to groundwater (static water level) during the sampling event, field parameters were measured to verify and document the presence of a stable and representative sample medium prior to collection. A multi-parameter meter with flow cell was used to evaluate geochemical measurements including temperature, conductivity, dissolved oxygen (DO), and pH of purged groundwater prior to sampling. Geochemical measurements for the October 2024 Semiannual Compliance Monitoring Event were recorded on the field sampling forms and are provided in **Appendix C**. Current well conditions including casing degradation, collision, or vandalism are provided on the sampling forms. No well maintenance items were noted during the October 2024 Semiannual Compliance Monitoring Event except for a cap needing to be replaced on Monitoring Well MW-212A.

Groundwater samples were collected using either a dedicated submersible pump or peristaltic pump at each monitoring well, except for Monitoring Well MW-31B. A Waterra foot valve sampling device was used to collect a groundwater sample from Monitoring Well MW-31B. Groundwater samples from groundwater underdrains were collected as grab samples using a clean laboratory container to collect the sample from the discharge, if flowing.

4 Data Evaluation and Summary

Statistical analyses were completed using Sanitas™ (Sanitas Technologies) software. The following sections describe the statistical methodology used for each monitoring program. Additional information on specific statistical equations used in the Sanitas™ program can be provided under separate cover upon request. Note that J-flagged concentrations [concentration between the method detection limit (MDL) and reporting limit (RL)] are not considered statistically significant.

Prior to statistical analysis, the groundwater data for each sampling and analysis event was reviewed for outliers and trends. The review included evaluations using time series plots, box-whiskers plots, Sen's Slope/Mann-Kendall trend tests, and outlier screening. If the data is determined to be an outlier, the data point may be replaced with a corrected value, discarded from statistical calculations, or left "as is" in the database. Detected outliers for well/constituent pairs are provided in the outlier summary in **Appendix B**.

A monitoring program summary (**Table 1**) provides a detailed summary of the monitoring wells and current monitoring program. The most recent and upcoming sampling schedule is provided in **Table 2**. The monitoring well maintenance schedule (**Table 3**) and performance summaries (**Table 4A** and **Table 4B**) are provided as attachments to this report. A database of historical groundwater data collected at the Landfill from monitoring wells and groundwater underdrains are provided in **Table 9A** and **Table 9B**, respectively, which are included in **Appendix E**. Historic statistically significant increases (SSIs) and statistically significant levels (SSLs) are summarized on **Table 10**.

4.1 Detection Monitoring

Under the Detection Monitoring Program of the IAC 567 113.10(5), Appendix I monitoring results are statistically compared to background levels as given in IAC 113.10(6)"e". The background data set for the HMSP monitoring wells which includes concentrations measured in background/up-gradient Monitoring Wells MW-34A, MW-38A, and MW-39B is used to evaluate SSIs for inorganic constituents by comparison to the interwell upper prediction limit (UPL). The detection monitoring statistical evaluations for the groundwater underdrain monitoring points (ST-1, WT-1, WT-2, WT-3, and WT-4) in the HMSP monitoring network utilize an intrawell UPL for evaluating SSIs for inorganic constituents. A summary of background levels calculated for inorganic constituents detected above laboratory RLs in the HMSP monitoring wells and groundwater underdrains are summarized on the attached **Table 5**.

A "1-of-2" retesting plan is used on individual sample results. The 1-of-2 retesting plan as defined in the Environmental Protection Agency's (EPA) Unified Guidance concludes that an SSI has occurred when 2 out of 2 consecutive sample results exceed the UPL, while no SSI is concluded if 1-of-2 is below the limit. The UPL for each constituent is recalculated semiannually. If an SSI above the UPL is identified, the monitoring location would be required to enter the Assessment Monitoring Program, unless an alternative source demonstration (ASD) successfully demonstrates a source other than the landfill caused the SSI.

For interwell constituents with greater than or equal to 50% non-detects in the background data set, a non-parametric prediction limit is used. The non-parametric prediction limit is taken as the maximum order statistic (maximum value) of the background data. For interwell constituents with less than 50% non-detects in the background data set, normality assumptions are verified using the Shapiro-Wilk Normality Test. If the background data is not normally distributed, a non-parametric prediction limit is used. If the background data is normally distributed or can be fit to a normal distribution using a normalizing transformation, then a normal-based parametric prediction limit is applied.

For organic constituents without historical detections in the background datasets for the monitoring wells and groundwater underdrains, the Double Quantification Rule (DQR) analysis is used. This method states that detection of the same constituent in two consecutive sampling events in the same monitoring point indicates an SSI, and the monitoring point must be placed into the Assessment Monitoring Program. This evaluation is conducted in a rolling manner using single observations from the semiannual and resample events, as necessary. For newly detected constituents, the resample event will be completed within 90 days of the original exceedance as stated in the IDNR memo for Double Quantification Rule Resampling dated June 22, 2017.

During the October 2024 Semiannual Compliance Monitoring Event, there were no HMSP monitoring wells managed under the Detection Monitoring Program. The groundwater underdrains (ST-1, WT-1, WT-2, WT-3, and WT-4) were monitored under the Detection Monitoring Program for the October 2024 Semiannual Compliance Monitoring Event. Results of the most recent sampling event for monitoring locations managed under the Detection Monitoring Program are summarized in **Table 6**. During the October 2024 Semiannual Compliance Monitoring Event, SSIs were identified in groundwater underdrains WT-1 (chromium, cobalt, copper, lead, and vanadium), WT-3 (barium, lead, and vanadium), and WT-4 (barium, cobalt, lead, and vanadium). The Sanitas™ statistical reports are included in **Appendix B**.

As approved in correspondence dated September 20, 2023 (**IDNR Doc #107723**), a site-specific underdrain discharge management plan was developed which includes the following aspects:

- The individual discharge points WT-1, WT-2, WT-3, and WT-4 are currently evaluated semiannually by intrawell prediction limits. Once sufficient background has been collected for combined outfall monitoring point WT-OF, intrawell prediction limits will be calculated from WT-OF data in addition to the individual discharge points.
- If an SSI is indicated for WT-1, WT-2, WT-3, and/or WT-4 before sufficient background has been collected for WT-OF, the indicated SSI will not require verification. If an SSI is indicated in an individual discharge point, analytical results from WT-OF will be compared to the prediction limits of the individual discharge point-constituent pairs to determine appropriate actions.

- Once sufficient data is available to perform statistical evaluation for WT-OF, SSIs indicated in the individual monitoring points will not trigger additional action if the concentrations in WT-OF are below its respective intrawell prediction limits.
- If an SSI is identified at monitoring point WT-OF, verification sampling will occur. If the SSI is confirmed, appropriate management of the discharge will be evaluated and implemented after IDNR concurrence.

Since sufficient background data has not been collected at monitoring location WT-OF, constituent concentrations measured in the WT-OF sample were compared to the intrawell UPLs of the constituents identified as SSIs in the individual discharge points [WT-1 (chromium, cobalt, copper, lead, and vanadium), WT-3 (barium, lead, and vanadium), and WT-4 (barium, cobalt, lead, and vanadium)]. Each concentration measured in the WT-OF sample was below the respective intrawell UPL for each constituent identified as an SSI at monitoring locations WT-1, WT-2, and WT-4.

The groundwater underdrain monitoring locations will continue to be monitored under the Detection Monitoring Program.

4.2 Assessment Monitoring

Under the Assessment Monitoring Program of IAC 113.10(6), Appendix I and II monitoring results are statistically compared to UPLs as given in IAC 113.10(6)“e” and to the groundwater protection standard (GWPS) as given in IAC 113.10(6)“g” and “h”. Interwell prediction limits are used to statistically evaluate SSIs over background for the Appendix I and II constituents with historical detections in the background dataset, and the DQR method is used for organic constituents to evaluate SSIs, as previously discussed in **Section 4.1**.

Constituents at monitoring locations which have been determined to be statistically above the UPL are also statistically compared to the GWPS to identify SSLs. The GWPS is the Iowa Statewide Standard (SS) for a Protected Groundwater Source (Statewide Standard). If no SS exists, or if the UPL concentrations are higher than the SS, the GWPS is defined as the UPL concentration. Per IAC 113.10(6)“i”, an alternative GWPS may be established by IDNR for constituents for which there is no SS or EPA maximum contaminant level (MCL). Confidence Intervals (CIs) are used as the statistical strategy in assessment monitoring. In the case of normally distributed data, a normal-based parametric CI is used. If the data are not normally distributed, a non-parametric CI on the median is used.

According to IAC 113.10(6)“e”, a well may return from assessment monitoring to detection monitoring when all Appendix II constituents are “shown to be at or below background values, using the statistical procedures in paragraph 113.10(4)“g” for two consecutive sampling events.” Assessment monitoring continues when Appendix II concentrations are above background values but below the GWPS using the statistical procedures in §113.10(4)“g”.

If constituents are detected at SSLs above the GWPS, a notice is placed in the operating record and the monitoring location would be required to enter the Corrective Action Monitoring Program. At that time, requirements to initiate characterization of the nature and extent of the

release (IAC 113.10(6)“g”) are triggered, and the owner or operator is required to initiate an assessment of corrective measures, and select and implement a remedy in accordance with IAC 113.10(7), (8), and (9).

Results of the most recent sampling event for monitoring locations in the Assessment Monitoring Program are provided in **Table 7**. The Sanitas™ statistical reports are included in **Appendix B**. For the October 2024 Semiannual Compliance Monitoring Event, SSIs were identified for Monitoring Wells MW-18AR (cis-1,2-dichloroethene, dichlorodifluoromethane, tetrachloroethene, and trichloroethene) and MW-200A (barium). The SSIs identified during the October 2024 Semiannual Compliance Monitoring Event at Monitoring Wells MW-18AR and MW-200A have historically been detected at these monitoring wells. The CIs for the well-constituent pairs identified as SSIs were compared to their respective GWPS. Based on the statistical analysis, an SSL was not identified during the October 2024 Semiannual Compliance Monitoring Event (**Table 8**).

The monitoring wells monitored under the Assessment Monitoring Program during the October 2024 Semiannual Compliance Monitoring Event will continue to be monitored under the Assessment Monitoring Program during the next Semiannual Compliance Monitoring Event.

4.3 AZPOC Monitoring Locations

The AZPOC monitoring locations are monitored under the Assessment Monitoring Program and follow the same statistical assessment procedures as described in **Section 4.2**. Results of the most recent sampling event for the AZPOC monitoring locations are provided in **Table 7**. The Sanitas™ statistical reports are included in **Appendix B**. For the October 2024 Semiannual Compliance Monitoring Event, potential SSIs were identified for Monitoring Well MW-10B (selenium and toluene). The October 2024 Semiannual Compliance Monitoring Event is the first monitoring event where selenium and toluene have been detected above laboratory RLs. Since these are the initial detections of these constituents at MW-10B, a verification sampling event will be conducted to confirm these SSIs. The verification monitoring event will be conducted prior to the next Semiannual Compliance Monitoring Event. If an SSI is confirmed at MW-10B, the Appendix II constituent list will be analyzed in the groundwater sample collected during the next Semiannual Compliance Monitoring Event.

The AZPOC monitoring wells are proposed to continue to be monitored under the Assessment Monitoring Program during the next Semiannual Compliance Monitoring Event. As indicated in the 2024 Spring Sampling Notification dated June 25, 2024 (**IDNR Doc #110314**), a discussion summarized that the corrective remedy had satisfied the remedy completion requirements of IAC 113.10(9)“e”(1) and (2), and it was requested that IDNR communicate what actions may be required in accordance with IAC 113.10(9)“e”(3) to complete the remedy. If IDNR concurs with the summary in the spring notification, the City requests guidance on next steps on continued corrective action monitoring in regards to the AZPOC monitoring wells.

4.4 Corrective Action Monitoring Activities and Evaluation

4.4.1 Corrective Action/Bracketing Wells

Bracketing monitoring wells, as required in the CAMP, are used to define the horizontal and vertical extent of groundwater impact and assess changes in the extent of impact. The monitoring wells used for bracketing are summarized on **Table 1**. The constituents detected above laboratory MDLs during the October 2024 Semiannual Compliance Monitoring Event are summarized on **Table 11**. For the October 2024 Semiannual Compliance Monitoring Event, constituents were detected above GWPSs at Monitoring Wells MW-18A-07 (tetrachloroethene, trichloroethene, and vinyl chloride) and MW-409 (arsenic).

In a letter dated November 13, 2024 (**IDNR Doc #111328**), HDR recommended that Monitoring Well MW-18A-07 transition from a bracketing well to a source characterization monitoring well. IDNR concurred with this transition in a revised operating permit dated December 2, 2024 (**IDNR Doc #111413**). Beginning with the first Semiannual Compliance Monitoring Event of 2025, MW-18A-07 will be monitored in accordance with the Source Characterization Monitoring Program.

4.4.2 Source Characterization Monitoring Wells

Source characterization monitoring wells are not compliance monitoring points. These are monitoring wells that were previously identified as having GWPS exceedances at SSLs. As a component of the CAMP, these monitoring wells were replaced by AZPOC monitoring points for compliance purposes. The monitoring wells used for source characterization are summarized on **Table 1**. The source characterization monitoring wells are sampled for the Appendix I and TSS constituents on a semiannual basis and natural attenuation parameters (total organic carbon [TOC], nitrate as nitrogen, iron, manganese, and sulfate) on an annual basis. The Appendix I and TSS constituents detected above laboratory MDLs during the October 2024 Semiannual Compliance Monitoring Event are summarized on **Table 12** along with the calculated trends for the eight (8) most recent samples.

For the October 2024 Semiannual Compliance Monitoring Event, statistically significant increasing trends were identified for the following well-constituent pairs:

- cis-1,2-dichloroethene: MW-16A,
- Nickel: MW-209B.

For the October 2024 Semiannual Compliance Monitoring Event, statistically significant decreasing trends were identified for the following well-constituent pairs:

- cis-1,2-dichloroethene: MW-206A,
- Dichlorodifluoroethane: MW-16A,
- 1,1-dichloroethane: MW-206A.

The parameters, TOC, nitrate as nitrogen, iron, manganese, and sulfate, are utilized to evaluate if natural attenuation is facilitating the reduction of contaminants of concern at the source characterization monitoring wells. TOC is utilized as a measure of organic carbon present in the

groundwater samples which is an indicator for released constituents from the Landfill. Nitrate as nitrogen, iron, manganese, and sulfate are electron acceptors that are utilized in oxidation-reduction processes in groundwater. The concentration of these electron acceptors can indicate the state of the groundwater and whether groundwater is in a more oxidizing state or reducing state. The order of usage in terms of energy provided would be nitrate as nitrogen, manganese, iron, and sulfate or another way of interpreting it is from more oxidizing conditions to more reducing conditions. If reducing conditions develop as a result of elevated organic carbon, iron and manganese concentrations will increase in groundwater due to the presence of more reduced, soluble forms of these constituents, while nitrate as nitrogen and sulfate concentrations would be decreased. If oxidizing conditions develop as a result of organic carbon reductions, then iron and manganese concentrations should decrease in groundwater with the potential of nitrate as nitrogen and sulfate concentrations increasing. Groundwater analytical results for the natural attenuation parameters are summarized on **Table 13**. Time series graphs for TOC (**Graph 1**), nitrate as nitrogen (**Graph 2**), iron (**Graph 3**), manganese (**Graph 4**), and sulfate (**Graph 5**) are attached to this report and depict the concentrations measured in the source characterization monitoring wells since 2015. The graphs also include a visual representation of the range of concentrations measured in groundwater samples collected from background Monitoring Wells MW-34A, MW-38A, and MW-39B. This visual representation provides a reference point when comparing source characterization monitoring well data.

Based on the natural attenuation parameters, changes in groundwater chemistry at the source characterization monitoring wells appear to be indicating that impact is being reduced and groundwater quality is improving. The only exception would be Monitoring Well MW-211B. Recent TOC, iron, and manganese concentrations at Monitoring Well MW-211B have been elevated when compared to values measured in 2015 and 2016. Further sampling data, which is collected during the periodic monitoring events, will be needed to confirm if the organic plume is shifting near Monitoring Well MW-211B and would further degrade groundwater quality.

Further discussion of each natural attenuation parameter is included in the following subsequent sections.

4.4.2.1 TOTAL ORGANIC CARBON

Background TOC concentrations measured in groundwater samples from Monitoring Wells MW-34A, MW-38A, and MW-39B range from less than laboratory RLs (<1.00 milligrams per liter [mg/L]) to 1.17 mg/L. To date, TOC concentrations at source characterization monitoring wells are above these background values. Monitoring Wells MW-16A and MW-206A have TOC concentrations that are the closest to the background values. The highest TOC concentrations have been measured in Monitoring Wells MW-209B and MW-212A. The highest TOC concentrations measured in the source characterization monitoring wells are from Monitoring Well MW-209B (73.7 mg/L – 4/6/2015 and 70.6 – 10/20/2021).

4.4.2.2 NITRATE AS NITROGEN

Background nitrate as nitrogen concentrations measured in groundwater samples from Monitoring Wells MW-34A, MW-38A, and MW-39B range from less than laboratory RLs (<0.1 mg/L) to 9.89 mg/L. The highest nitrate as nitrogen concentrations in background monitoring

wells were measured in groundwater samples collected from MW-38A (8.47 to 9.89 mg/L). Nitrate as nitrogen at Monitoring Well MW-38A could be influenced by agricultural inputs of nitrogen. To date, nitrate as nitrogen concentrations at source characterization monitoring wells have ranged from <0.100 mg/L to 2.10 mg/L. For Monitoring Wells MW-1A, MW-2A-97, MW-212A, nitrate as nitrogen concentration increased sharply in 2016, but decreased and have been below 0.4 mg/L for the past three years. For Monitoring Wells MW-206A and MW-209B, nitrate as nitrogen concentrations were relatively low in 2015 through 2016 with recent concentrations (2021 through 2024) being elevated. Further data is needed, but this may be indicative of lesser groundwater impact or changes in the groundwater oxidation state at Monitoring Wells MW-206A and MW-209B.

4.4.2.3 IRON

Background iron concentrations measured in groundwater samples from Monitoring Wells MW-34A, MW-38A, and MW-39B range from less than laboratory RLs (<0.1 mg/L) to 0.852 mg/L with one potential outlier at a concentration of 8.22 mg/L. To date, iron concentrations at source characterization monitoring wells have ranged from <0.100 mg/L to 82.4 mg/L. Monitoring wells MW-16A and MW-206A have iron concentrations that are the closest to the background values. As depicted on **Graph 3**, elevated iron concentrations were measured in Monitoring Wells MW-6B and MW-212A in 2015 but have decreased significantly to the most recent concentrations measured in 2024. This may be indicative of lesser groundwater impact at these monitoring locations. For Monitoring Wells MW-1A and MW-211B, recent concentrations are elevated when compared to concentrations measured in 2015 and 2016. MW-211B had the most noticeable increase when compared to historical data. This iron increase follows a similar increase in TOC at Monitoring Well MW-211B and may be indicative of a shifting organic plume near this monitoring well. The elevated concentrations of iron indicate reducing conditions are increasing as a result of elevated organic concentrations in groundwater. Based on these indicators, natural attenuation does not appear to be improving groundwater quality in the area of MW-211B at the time of the October 2024 Semiannual Compliance Monitoring Event.

4.4.2.4 MANGANESE

Background manganese concentrations measured in groundwater samples from Monitoring Wells MW-34A, MW-38A, and MW-39B range from less than laboratory RLs (<0.01 mg/L) to 0.323 mg/L with one potential outlier at a concentration of 1.54 mg/L. To date, manganese concentrations at source characterization monitoring wells have ranged from <0.00500 mg/L to 21.2 mg/L. Monitoring Wells MW-16A and MW-206A have manganese concentrations that are comparable to the background values. As depicted on **Graph 4**, elevated manganese concentrations were measured in Monitoring Wells MW-6B and MW-212A in 2015 but have decreased significantly to the most recent concentrations measured in 2024. This may be indicative of lesser groundwater impact at these monitoring locations. For Monitoring Well MW-211B, recent concentrations are elevated when compared to concentrations measured in 2015 and 2016. MW-211B had the most noticeable increase when compared to historical data. This manganese increase follows a similar increase in TOC and iron at Monitoring Well MW-211B and may be indicative of a shifting organic plume near this monitoring well. The elevated concentrations of manganese indicate reducing conditions are increasing as a result of

elevated organic concentrations in groundwater. Based on these indicators, natural attenuation does not appear to be improving groundwater quality in the area of MW-211B at the time of the October 2024 Semiannual Compliance Monitoring Event.

4.4.2.5 SULFATE

Background sulfate concentrations measured in groundwater samples from Monitoring Wells MW-34A, MW-38A, and MW-39B range from 4.67 to 43.7 mg/L. To date, sulfate concentrations at source characterization monitoring wells have ranged from <1.00 mg/L to 789 mg/L. The lowest concentrations of sulfate have been consistently monitored at Monitoring Well MW-209B with each sample being below laboratory RLs. MW-209B has consistently had the highest TOC and iron concentrations and lowest sulfate concentrations which may indicate the groundwater in this monitored area is in a carbon-dioxide reducing (methanogenic) state. A methanogenic state would indicate strong reducing conditions which implies limited electron acceptor constituents to naturally attenuate large concentrations of organic constituents. Thus, it may take a longer period of time for natural attenuation to reduce organic constituents in groundwater near Monitoring Well MW-209B.

For Monitoring Well MW-212A, the sulfate concentration spiked up in 2022 to a concentration of 789 mg/L. Since 2022, the sulfate concentration has only slightly decreased with the 2024 concentration being 693 mg/L. This sharp increase in sulfate concentration also coincides with a rapid reduction in TOC, iron, and manganese. There appears to be a rapid infusion of sulfate into this area at concentrations that are well above background levels measured in Monitoring Wells MW-34A, MW-38A and MW-39B. During the 2024 monitoring event, sulfate concentration at Monitoring Well MW-1A also spiked up to a concentration of 460 mg/L. It cannot be discerned at this time if the spike at MW-1A is an outlier. However, Monitoring Well MW-1A is downgradient of Monitoring Well MW-212A and may indicate migration of elevated sulfate concentrations in the shallow groundwater.

5 Quality Assurance/Quality Control

The quality assurance/quality control (QA/QC) protocols for each sampling event include proper sample containers, proper field protocols, and laboratory protocols. The QA/QC results for the October 2024 Semiannual Compliance Monitoring Event consisted of the following:

October 2024

- 2 Duplicates
- 7 Trip Blanks

Eurofins Environmental Testing North Central, LLC, in Cedar Falls, Iowa is responsible for providing QA/QC of laboratory protocols; this documentation is included in the October 2024 Semiannual Compliance Monitoring Event laboratory reports provided in **Appendix D**. The laboratory QA/QC protocols and documentation were reviewed by HDR. For the October 2024 Semiannual Compliance Monitoring Event, the laboratory sample receipt checklists indicated all samples were received within holding times, within acceptable temperatures, and sample containers were not broken or leaking. As indicated in the laboratory report narrative, the holding time for Monitoring Well MW-407 was missed for the sulfide constituent due to a

laboratory analysis error. The laboratory proceeded with the sulfide analysis of the groundwater sample from MW-407.

5.1 Laboratory Qualifiers

The following qualifiers were noted for some parameters in the October 2024 Semiannual Compliance Monitoring Event laboratory analytical reports:

- H – Sample was prepped or analyzed beyond the specified holding time.
 - Sulfide analysis of the groundwater sample MW-407 was conducted past the method holding time. The measured concentration for the October 2024 groundwater sample was comparable to sulfide concentrations in previous samples collected from the monitoring well. The concentration result was not rejected.
- J – Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- 4 – MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

All results were noted by the laboratory as not triggering corrective action or requiring re-analysis.

5.2 Equipment & Trip Blanks

There were no detections above laboratory reporting limits of monitored constituents within the seven (7) trip blanks submitted for analysis for the October 2024 Semiannual Compliance Monitoring Event.

5.3 Field Duplicates

During the October 2024 compliance monitoring event, field duplicate sample one (DUP-1) was obtained from Monitoring Well MW-217A, and field duplicate sample two (DUP-2) was obtained from Monitoring Well MW-31B.

Field duplicate samples were analyzed to determine the relative percent difference (RPD) between the original (parent) sample and the duplicate sample. RPD values are only calculated for constituents detected above the laboratory RL for both the parent and duplicate sample. According to *Practical Guide for Ground-Water Sampling*: “Duplicate sample values which differ by less than $\pm 50\%$ relative difference indicates good error control.” (Barcelona et al, 1985).

Table 14 presents the parent/duplicate sample results along with the calculated RPD values for the October 2024 Semiannual Compliance Monitoring Event. Each RPD value is below the recommended 50% for each well-duplicate pair that had concentrations measured above laboratory RLs. However, it was observed that select constituents (cadmium, cobalt, lead, and silver) were detected above laboratory RLs in the DUP-1 sample while being reported below laboratory RLs in the MW-217A sample. Some of the detected concentrations in the DUP-1 sample were two to three times higher than the constituent’s RL. To further assess this variability and evaluate the precision of the analysis, a general industry standard for evaluating low concentration detections is to compare the absolute difference between the sample and

duplicate value to two (2) times the laboratory RL. This comparison for cadmium, cobalt, lead, and silver for the MW-217A/DUP-1 duplicate pair is provided on **Table 14**. The criteria was met for the cobalt, lead, and silver constituents in the duplicate pair. Cadmium in the duplicate pair did not meet the criteria. Based on these results, cadmium concentrations were not used as the sole source of information for decision-making for compliance activities at the site for the October 2024 Semiannual Compliance Monitoring Event.

Results of the quality assurance/quality control samples did not trigger corrective measures such as resampling or laboratory re-analysis.

6 Recommendations

The following conclusions are made and actions recommended for the continuation of groundwater compliance monitoring at the Landfill:

1. A majority of the groundwater impact is present in monitoring wells adjacent to the Non-Subtitle D Areas (Northern and Eastern Unlined/Clay-Lined Cells) of the Landfill. The sources of impact have been previously identified. Some areas are influenced by leachate migration while landfill gas migration is the primary source of impact in other areas.
2. The corrective action remedy of source control via leachate and landfill gas management systems along with monitored natural attenuation has been implemented at the Landfill.
3. AZPOC monitoring wells are being utilized to monitor progress of the corrective action remedy. As indicated in the 2024 Spring Sampling Notification dated June 25, 2024 (**IDNR Doc #110314**), it was discussed that sufficient data has been obtained to indicate the corrective action remedy goals have been met. The City is requesting IDNR's response to the summary and recommended next steps, if any.
4. Evaluation of the natural attenuation parameters indicates that natural attenuation processes are occurring in the groundwater adjacent to the Landfill. However, further assessment would be needed at Monitoring Well MW-211B since recent parameter concentrations indicate groundwater impact may be increasing.
5. Continue collecting water level and well depth measurements, if scheduled, on a semiannual basis at each HMSP approved monitoring location.
6. Conduct groundwater monitoring and applicable statistical analysis at each HMSP approved monitoring location under the respective monitoring program as summarized on **Table 1** and **Table 2**.

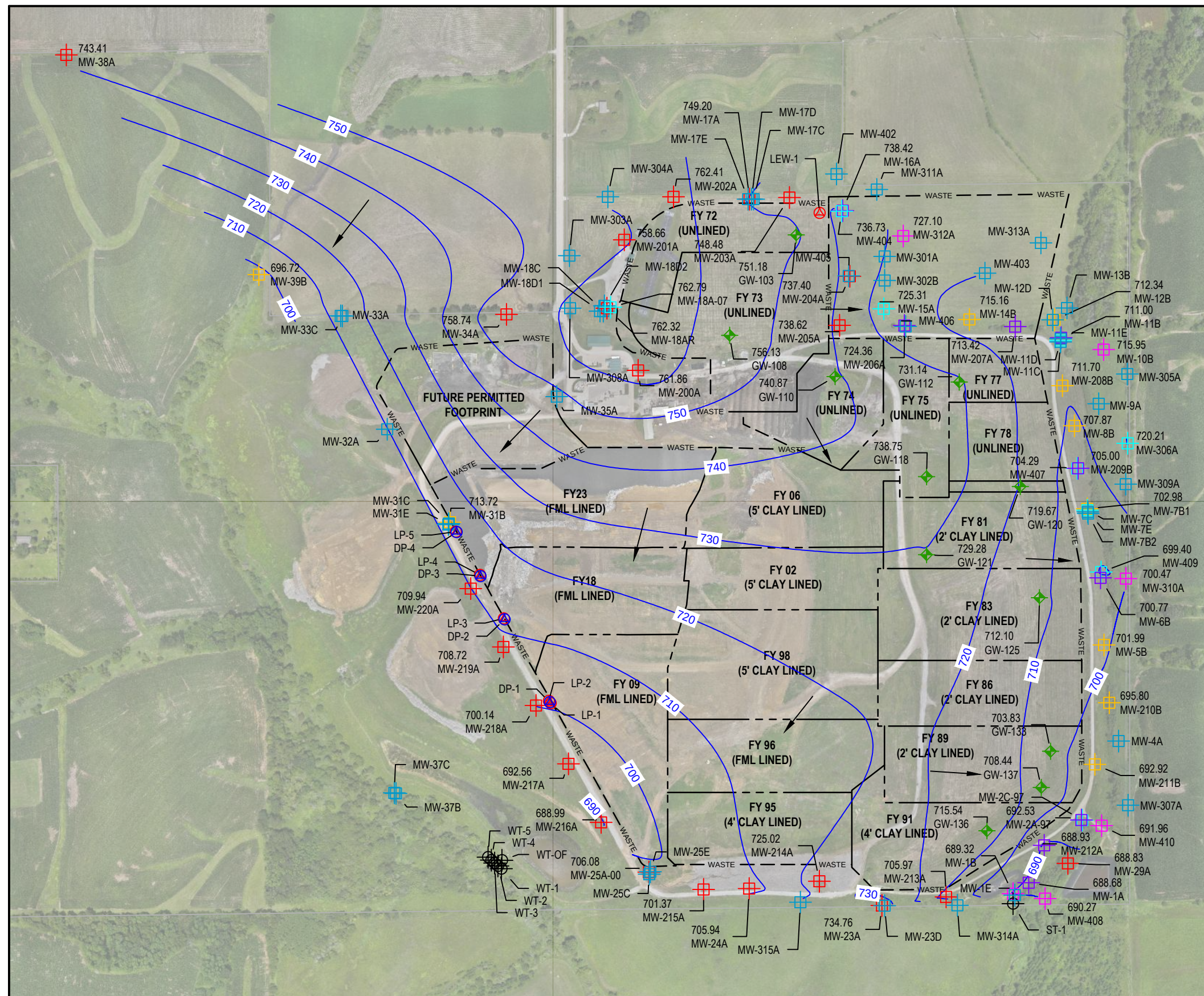


Figures



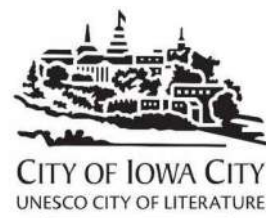
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LEGEND

NOTES:

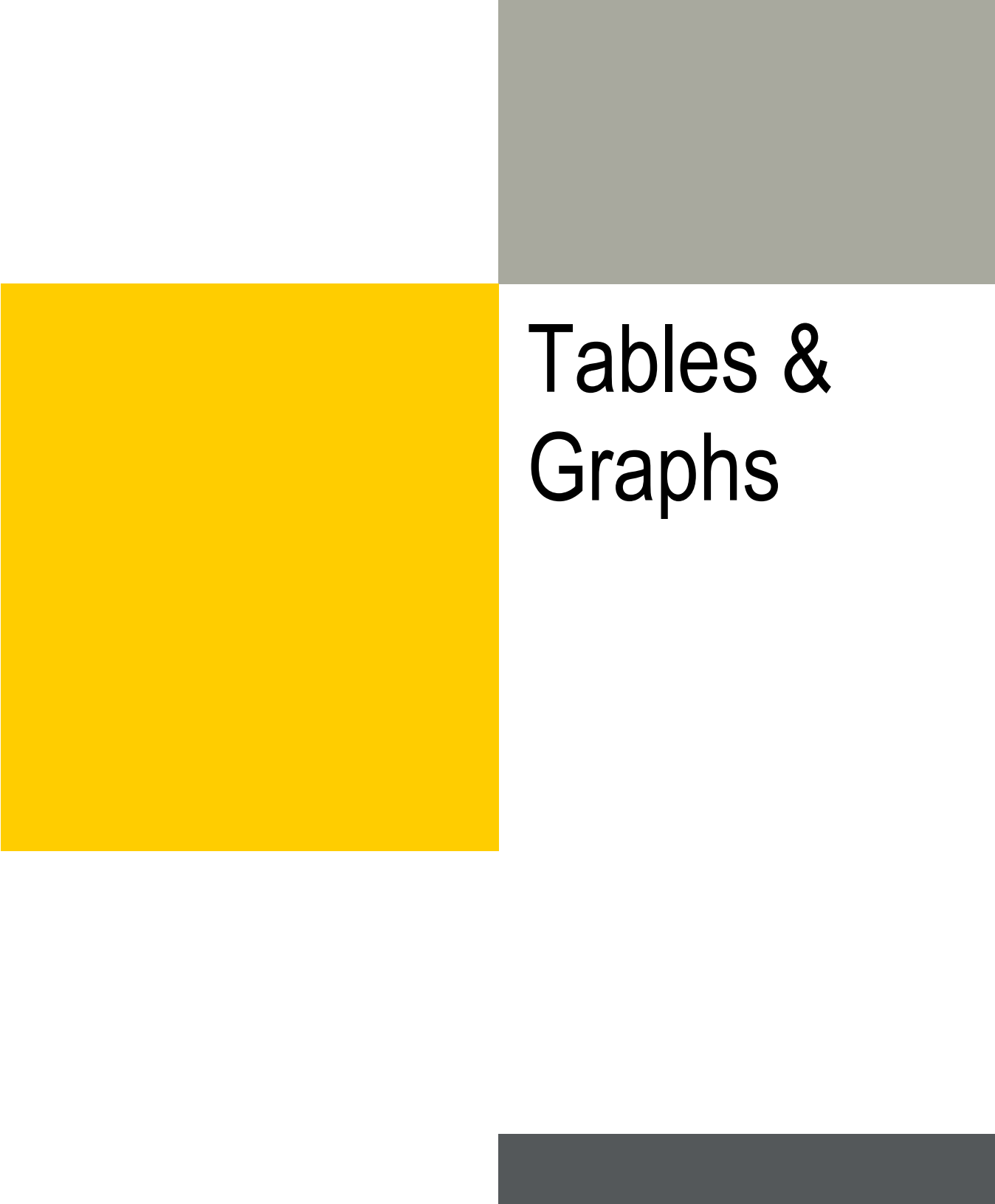


**CITY OF IOWA CITY
LANDFILL AND RECYCLING CENTER**

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Tables & Graphs

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Table 1
Monitoring Program Summary
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Monitoring Well	Formation ⁽¹⁾	Current Monitoring Program (Fall 2024)	Change for next sampling event	Constituents w/ SSI*	Constituents w/ SSL	Total Number of Samples in Each Monitoring Program		
						Detection	Assessment	Corrective Action
Series A Monitoring Wells								
MW-34A	Sandy Silty Clay	Background	No Change	Not applicable	Not applicable	33		
MW-38A	Sandy Lean Clay	Background	No Change	Not applicable	Not applicable	22		
MW-17A-00	Sandy Silty Clay	Assessment	No Change	None	None		39	
MW-18AR	Silty Clay	Assessment	No Change	cis-1,2-Dichloroethene; Dichlorodifluoromethane; Tetrachloroethene; Trichloroethene	None		13	
MW-23A	Unknown	Assessment	No Change	None	None		30	
MW-24A	Loess/Glacial Till	Assessment	No Change	None	None		32	
MW-25A-00	Loess/Glacial Till	Assessment	No Change	None	None		35	
MW-29A	Sandy Silty Clay	Assessment	No Change	None	None		34	
MW-200A	Glacial Till	Assessment	No Change	Barium	None		31	
MW-201A	Loess/Glacial Till	Assessment	No Change	None	None		30	
MW-202A	Glacial Till	Assessment	No Change	None	None		28	
MW-203A	Glacial Till	Assessment	No Change	None	None		28	
MW-204A	Alluvium/Glacial Till	Assessment	No Change	None	None		28	
MW-205A	Alluvium/Glacial Till	Assessment	No Change	None	None		32	
MW-213A	Glacial Till	Assessment	No Change	None	None		31	
MW-214A	Glacial Till	Assessment	No Change	None	None		28	
MW-215A	Glacial Till	Assessment	No Change	None	None		27	
MW-216A	Sandy Lean Clay	Assessment	No Change	None	None		27	
MW-217A	Sandy Lean Clay	Assessment	No Change	None	None		27	
MW-218A	Sandy Lean Clay	Assessment	No Change	None	None		27	
MW-219A	Sandy Lean Clay	Assessment	No Change	None	None		27	
MW-220A	Clayey Sand	Assessment	No Change	None	None		27	

Table 1
Monitoring Program Summary
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Monitoring Well	Formation ⁽¹⁾	Current Monitoring Program (Fall 2024)	Change for next sampling event	Constituents w/ SSI*	Constituents w/ SSL	Total Number of Samples in Each Monitoring Program		
						Detection	Assessment	Corrective Action
Series B Monitoring Wells								
MW-39B	Sandy Lean Clay	Background	No Change	Not applicable	Not applicable	20		
MW-1B	Unknown	Assessment/CAMP	No Change	None	None		33	
MW-5B	Unknown	Assessment	No Change	None	None		32	
MW-7B1	Unknown	Assessment	No Change	None	None		31	
MW-8B	Unknown	Assessment	No Change	None	None		31	
MW-12B	Unknown	Assessment	No Change	None	None		29	
MW-14B	Alluvium/Glacial Till	Assessment	No Change	None	None		31	
MW-31B	Glacial Till	Assessment	No Change	None	None		36	
MW-208B	Alluvium/Glacial Till	Assessment	No Change	None	None		27	
MW-210B	Alluvium	Assessment	No Change	None	None		28	
Groundwater Underdrains								
ST-1	Not Applicable	Detection	No Change	Not applicable (no samples)	Not applicable	0		
WT-1	Not Applicable	Detection	No Change	Chromium, Cobalt, Copper, Lead, Vanadium	Not applicable	15		
WT-2	Not Applicable	Detection	No Change	None	Not applicable	15		
WT-3	Not Applicable	Detection	No Change	Barium, Lead, Vanadium	Not applicable	15		
WT-4	Not Applicable	Detection	No Change	Barium, Cobalt, Lead, Vanadium	Not applicable	15		
WT-OF	Not Applicable	Detection	No Change	None	Not applicable	3		
Attenuation Zone Point of Compliance (AZPOC)								
MW-310A	Sandy Lean Clay	CAMP	No Change	None	None			29
MW-312A	Sandy Lean Clay	CAMP	No Change	None	None			16
MW-1B	Unknown	CAMP	No Change	None	None			31
MW-10B	Unknown	CAMP	No Change	Selenium*, Toluene*	None			27
MW-408	Glacial Till/Sand	CAMP	No Change	None	Not applicable			7
MW-410	Sandy Lean Clay	CAMP	No Change	None	Not applicable			7

Table 1
Monitoring Program Summary
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Monitoring Well	Formation ⁽¹⁾	Current Monitoring Program (Fall 2024)	Change for next sampling event	Constituents w/ SSI*	Constituents w/ SSL	Total Number of Samples in Each Monitoring Program		
						Detection	Assessment	Corrective Action
Source Characterization								
MW-1A	Unknown	Source Characterization	No Change	Not applicable	Not applicable			35
MW-2A-97	Clay	Source Characterization	No Change	Not applicable	Not applicable			35
MW-16A	Glacial Till	Source Characterization	No Change	Not applicable	Not applicable			34
MW-206A	Glacial Till	Source Characterization	No Change	Not applicable	Not applicable			32
MW-207A	Alluvium	Source Characterization	No Change	Not applicable	Not applicable			32
MW-212A	Glacial Till	Source Characterization	No Change	Not applicable	Not applicable			32
MW-6B	Unknown	Source Characterization	No Change	Not applicable	Not applicable			36
MW-11B	Unknown	Source Characterization	No Change	Not applicable	Not applicable			35
MW-209B	Alluvium	Source Characterization	No Change	Not applicable	Not applicable			32
MW-211B	Glacial Till	Source Characterization	No Change	Not applicable	Not applicable			30
Corrective Action/Bracketing								
MW-15A	Unknown	CAMP Delineation	No Change	Not applicable	Not Applicable			17
MW-18A-07	Sandy Lean Clay	CAMP Delineation	Source Characterization	Not applicable	Not Applicable			32
MW-2C-97	Unknown	CAMP Delineation	No Change	Not applicable	Not Applicable			10
MW-7C	Unknown	CAMP Delineation	No Change	Not applicable	Not Applicable			10
MW-306A	Sandy Lean Clay	CAMP Delineation	No Change	Not applicable	Not Applicable			17
MW-407	Sandy Lean Clay	CAMP Delineation	No Change	Not applicable	Not Applicable			12
MW-409	Silty Sand	CAMP Delineation	No Change	Not applicable	Not Applicable			8
MW-11D	Unknown	CAMP Delineation	No Change	Not applicable	Not Applicable			12
MW-404	Sandy Lean Clay	CAMP Delineation	No Change	Not applicable	Not Applicable			12

NOTES:

⁽¹⁾ Obtained from screened interval on boring logs or cross-sections.

⁽²⁾ The Iowa Department of Natural Resources approved HDR's recommendation in a letter dated November 13, 2024, for monitoring well MW-18A-07 to move from a bracketing/delineation monitoring well to a source characterization well.

* A potential SSI was identified for the constituent. Confirmation of the SSI will be evaluated pending the results of a verification sampling event.

CAMP - Corrective Action Monitoring Plan

SSI - Statistically Significant Increase

SSL - Statistically Significant Level

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Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Monitoring Well	Recent Sampling Dates and Constituents			Upcoming Sampling Dates and Constituents			Full Appendix II Sample Dates	
	March 2024	April 2024	October 2024	February 2025	April 2025	October 2025	Previously Collected	Next Event
Series A Monitoring Wells								
MW-34A		Appendix I, TSS			Appendix I, TSS		Not Applicable	Not Applicable
MW-38A		Appendix I, TSS			Appendix I, TSS		Not Applicable	Not Applicable
MW-17A-00		Metals List, TSS			Appendix II, TSS		4/14/2009, 5/10/2010, 10/5/2015, 3/30/2020	2025
MW-18AR		Metals List, TSS, Appendix I VOCs, Dichlorodifluoromethane, Sulfide	Metals List, TSS, Appendix I VOCs, Dichlorodifluoromethane, Sulfide		Metals List, TSS, Appendix I VOCs, Dichlorodifluoromethane, Sulfide	Metals List, TSS, Appendix I VOCs, Dichlorodifluoromethane, Sulfide	3/30/2020, 10/20/2021	2026
MW-23A		Metals List, TSS			Appendix II, TSS		4/14/2009, 5/10/2010, 10/5/2015, 3/30/2020	2025
MW-24A		Metals List, TSS	Metals List, TSS		Appendix II, TSS	Metals List, TSS	4/14/2009, 5/10/2010, 10/5/2015, 3/30/2020	2025
MW-25A-00		Appendix I, TSS	Appendix I, TSS		Appendix II, TSS	Appendix I, TSS	4/14/2009, 5/10/2010, 10/5/2015, 3/30/2020	2025
MW-29A		Metals List, TSS, Appendix I VOCs	Metals List, TSS, Appendix I VOCs		Appendix II, TSS	Metals List, TSS, Appendix I VOCs	4/14/2009, 5/10/2010, 10/5/2015, 3/30/2020	2025
MW-200A		Metals List, TSS, Appendix I VOCs, Dichlorodifluoromethane	Metals List, TSS, Appendix I VOCs, Dichlorodifluoromethane		Metals List, TSS, Appendix I VOCs, Dichlorodifluoromethane	Metals List, TSS, Appendix I VOCs, Dichlorodifluoromethane	4/4/2011, 4/4/2016, 10/20/2021	2026
MW-201A		Metals List, TSS, Appendix I VOCs	Metals List, TSS, Appendix I VOCs		Appendix II, TSS	Metals List, TSS, Appendix I VOCs	5/10/2010, 10/5/2015, 3/30/2020	2025
MW-202A		Metals List, TSS			Appendix II, TSS		5/10/2010, 10/5/2015, 3/30/2020	2025
MW-203A		Metals List, TSS			Appendix II, TSS		5/10/2010, 10/5/2015, 3/30/2020	2025
MW-204A		Metals List, TSS			Appendix II, TSS		5/10/2010, 10/5/2015, 3/30/2020	2025
MW-205A		Metals List, TSS			Metals List, TSS		4/4/2011, 4/4/2016, 10/20/2021	2026
MW-213A		Metals List, TSS			Metals List, TSS		4/4/2011, 4/4/2016, 10/27/2021	2026
MW-214A		Metals List, TSS			Appendix II, TSS		5/10/2010, 10/5/2015, 3/30/2020	2025
MW-215A		Metals List, TSS			Appendix II, TSS		5/10/2010, 10/5/2015, 3/30/2020	2025
MW-216A		Appendix I, TSS, Sulfide	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	7/10/2013, 4/23/2018, 5/4/2023	2028
MW-217A		Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	7/10/2013, 4/23/2018, 5/4/2023	2028
MW-218A		Appendix I, TSS, Sulfide	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	7/10/2013, 4/23/2018, 5/4/2023	2028
MW-219A		Appendix I, TSS, Sulfide	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	7/10/2013, 4/23/2018, 5/4/2023	2028
MW-220A		Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	7/10/2013, 4/23/2018, 5/4/2023	2028
MW-310A		Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-312A		Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-408		Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-410		Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Monitoring Well	Recent Sampling Dates and Constituents			Upcoming Sampling Dates and Constituents			Full Appendix II Sample Dates	
	March 2024	April 2024	October 2024	February 2025	April 2025	October 2025	Previously Collected	Next Event
Series B Monitoring Wells								
MW-39B		Appendix I, TSS			Appendix I, TSS		Not Applicable	Not Applicable
MW-1B		Appendix I, TSS	Appendix I, TSS		Appendix II, TSS	Appendix I, TSS	4/14/2009, 5/20/2010, 10/5/2015, 3/30/2020	2025
MW-5B		Metals List, TSS			Appendix II, TSS		4/14/2009, 5/20/2010, 10/5/2015, 3/30/2020	2025
MW-7B1		Metals List, TSS			Appendix II, TSS		4/14/2009, 5/20/2010, 10/5/2015, 3/30/2020	2025
MW-8B		Metals List, TSS			Appendix II, TSS		4/14/2009, 5/20/2010, 10/5/2015, 3/30/2020	2025
MW-10B		Appendix I, TSS	Appendix I, TSS	Selenium, Toluene, TSS	Appendix I, TSS ⁽¹⁾	Appendix I, TSS ⁽¹⁾	Not Applicable	Not Applicable
MW-12B		Metals List, TSS, Bis[2-ethylhexyl]phthalate			Metals List, TSS, Bis[2-ethylhexyl]phthalate		4/14/2009, 5/20/2010, 4/17/2017, 5/2/2022	2027
MW-14B		Metals List, TSS			Appendix II, TSS		4/14/2009, 5/20/2010, 10/5/2015, 3/30/2020	2025
MW-31B		Appendix I, TSS	Appendix I, TSS		Appendix II, TSS	Appendix I, TSS	4/14/2009, 5/20/2010, 10/5/2015, 3/30/2020	2025
MW-208B		Metals List, TSS, 4,4-DDT, Endrin			Appendix II, TSS		9/2/2009, 10/15/2014, 10/5/2015, 3/30/2020	2025
MW-210B		Metals List, TSS			Appendix II, TSS		1/2/2010, 5/10/2010, 10/5/2015, 3/30/2020	2025
Groundwater Underdrains								
ST-1		Not sampled (dry)	Not sampled (dry)		Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
WT-1		Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
WT-2		Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
WT-3		Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
WT-4		Appendix I, TSS	Appendix I, TSS		Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
WT-OF	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
Source Characterization								
MW-1A		Appendix I, TSS, Natural Attenuation	Appendix I, TSS		Appendix II, TSS, Natural Attenuation	Appendix I, TSS	4/14/2009, 5/10/2010, 10/5/2015, 3/30/2020	2025
MW-2A-97		Appendix I, TSS, Natural Attenuation	Appendix I, TSS		Appendix II, TSS, Natural Attenuation	Appendix I, TSS	4/14/2009, 5/10/2010, 10/5/2015, 3/30/2020	2025
MW-16A		Appendix I, TSS, Dichlorodifluoromethane, Natural Attenuation	Appendix I, TSS, Dichlorodifluoromethane		Appendix II, TSS, Natural Attenuation	Appendix I, TSS, Dichlorodifluoromethane	4/14/2009, 5/10/2010, 10/5/2015, 3/30/2020	2025
MW-18A-07	Monitored under the Corrective Action / Bracketing monitoring program.				Appendix II, TSS, Natural Attenuation	Appendix I, TSS	4/14/2009, 5/10/2010, 10/5/2015, 3/30/2020	2025
MW-206A		Appendix I, TSS, Dichlorodifluoromethane, Natural Attenuation	Appendix I, TSS, Dichlorodifluoromethane		Appendix II, TSS, Natural Attenuation	Appendix I, TSS, Dichlorodifluoromethane	5/10/2010, 10/5/2015, 3/30/2020	2025
MW-207A		Appendix I, TSS, Sulfide, Natural Attenuation	Appendix I, TSS, Sulfide		Appendix II, TSS, Natural Attenuation	Appendix I, TSS, Sulfide	5/10/2010, 10/5/2015, 3/30/2020	2025
MW-212A		Appendix I, TSS, Natural Attenuation	Appendix I, TSS		Appendix II, TSS, Natural Attenuation	Appendix I, TSS	5/10/2010, 10/5/2015, 3/30/2020	2025
MW-6B		Appendix I, TSS, Natural Attenuation	Appendix I, TSS, Sulfide		Appendix II, TSS, Natural Attenuation	Appendix I, TSS, Sulfide	4/14/2009, 5/20/2010, 10/5/2015, 3/30/2020	2025
MW-11B		Appendix I, TSS, Natural Attenuation	Appendix I, TSS		Appendix II, TSS, Natural Attenuation	Appendix I, TSS	4/14/2009, 5/20/2010, 10/5/2015, 3/30/2020	2025

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Monitoring Well	Recent Sampling Dates and Constituents			Upcoming Sampling Dates and Constituents			Full Appendix II Sample Dates	
	March 2024	April 2024	October 2024	February 2025	April 2025	October 2025	Previously Collected	Next Event
Source Characterization (continued)								
MW-209B		Appendix I, TSS, 2,4,5-TP [Silvex], beta-BHC, Sulfide, Natural Attenuation	Appendix I, TSS, 2,4,5-TP [Silvex], beta-BHC, Sulfide		Appendix II, TSS, Natural Attenuation	Appendix I, TSS, 2,4,5-TP [Silvex], beta-BHC, Sulfide	5/10/2010, 10/5/2015, 3/30/2020	2025
MW-211B		Appendix I, TSS, Natural Attenuation	Appendix I, TSS		Appendix I, TSS, Natural Attenuation	Appendix I, TSS	4/4/2011, 4/4/2016, 10/20/2021	2026
Corrective Action/Bracketing								
MW-18A-07		Arsenic, Cobalt, TSS, Benzene, Sulfide, Tetrachloroethene, Trichloroethene, Vinyl Chloride	Arsenic, Cobalt, TSS, Benzene, Sulfide, Tetrachloroethene, Trichloroethene, Vinyl Chloride	Monitored under the Source Characterization monitoring program.			Not Applicable	Not Applicable
MW-15A		Arsenic, TSS	Arsenic, TSS		Arsenic, TSS	Arsenic, TSS	Not Applicable	Not Applicable
MW-2C-97		Cobalt, TSS	Cobalt, TSS		Cobalt, TSS	Cobalt, TSS	Not Applicable	Not Applicable
MW-7C		Arsenic, TSS	Arsenic, TSS		Arsenic, TSS	Arsenic, TSS	Not Applicable	Not Applicable
MW-306A		Arsenic, TSS, Benzene	Arsenic, TSS, Benzene		Arsenic, TSS, Benzene	Arsenic, TSS, Benzene	Not Applicable	Not Applicable
MW-407		Arsenic, TSS, Benzene, Sulfide	Arsenic, TSS, Benzene, Sulfide		Arsenic, TSS, Benzene, Sulfide	Arsenic, TSS, Benzene, Sulfide	Not Applicable	Not Applicable
MW-409		Arsenic, Cobalt, TSS	Arsenic, Cobalt, TSS		Arsenic, Cobalt, TSS	Arsenic, Cobalt, TSS	Not Applicable	Not Applicable
MW-11D		Arsenic, TSS	Arsenic, TSS		Arsenic, TSS	Arsenic, TSS	Not Applicable	Not Applicable
MW-404		Tetrachloroethene, Trichloroethene, Vinyl Chloride	Tetrachloroethene, Trichloroethene, Vinyl Chloride		Tetrachloroethene, Trichloroethene, Vinyl Chloride	Tetrachloroethene, Trichloroethene, Vinyl Chloride	Not Applicable	Not Applicable

NOTES:

⁽¹⁾ Pending the results of the verification monitoring event, the analytical program is subject to change.

Metals List: Arsenic, Barium, Cobalt, Copper, Lead, Nickel.

Natural Attenuation Constituents: Total Organic Carbon, Nitrate as Nitrogen, Iron, Manganese, Sulfate.

TSS - Total Suspended Solids

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Table 3
Monitoring Well Maintenance and Performance Reevaluation Schedule
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Compliance with:	2022	2023	2024	2025	2026
567 IAC 113.10(2)"f"(1): high and low water levels (biennial)	Completed		Completed		Scheduled
567 IAC 113.10(2)"f"(2): changes in the hydrologic setting and flow paths	Completed	Completed	Completed	Scheduled	Scheduled
567 IAC 113.10(2)"f"(3): well depths	Completed	Completed	Completed	Scheduled	Scheduled
567 IAC 113.10(2)"f"(4): well recharge rates and chemistry (biennial)	Completed		Completed		Scheduled
567 IAC 113.6(2)"i": Waste separation from ground water	Completed	Completed	Completed	Scheduled	Scheduled

COMMENTS:

- Semiannual 2024 groundwater elevations are shown in **Table 4A**.
- Groundwater flow directions are consistent with historical groundwater flow data and measurements collected from the Site monitoring network. Flow directions for the Spring and Fall 2024 semiannual monitoring events are depicted in **Figures 2 and 3**, respectively.
- Monitoring well depths are shown on field sampling forms in **Appendix C** and **Table 4A**. Each measured well depth conducted in 2024 is generally consistent with historical measured depths.
- Monitoring well recharge rates and chemistry are shown on field sampling forms in **Appendix C**.
- Waste separation from groundwater measurements and discussion are shown in **Table 4B**.

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Table 4A
Monitoring Well Maintenance and Performance Summary - Monitoring and Delineation Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Top of Casing (FT. AMSL)	Top of Screen (FT. AMSL)	Total Depth (FT. BTOC)	Measurement Description	Date of Measurements		Maximum Depth Discrepancy (FT.)	Spring 2024 Levels (at start and end of purgings)	Fall 2024 Levels (at start and end of purgings)
					May-24	Oct-24		(FT. BTOC)	(FT. BTOC)
MW-1A	699.18	680.00	29.2	Static Water Level (FT.)	10.50	14.55	0.20	10.50	14.55
				Groundwater Elevation (FT. AMSL)	688.68	684.63			
				Measured Well Depth (FT.)	29.00	29.00		13.88	17.61
				Submerged Screen	Yes	Yes			
MW-1B	696.29	670.95	35.3	Static Water Level (FT.)	6.97	11.48	0.39	6.97	11.48
				Groundwater Elevation (FT. AMSL)	689.32	684.81			
				Measured Well Depth (FT.)	35.69	35.69		7.33	11.80
				Submerged Screen	Yes	Yes			
MW-2A-97	710.78	693.20	27.6	Static Water Level (FT.)	18.25	23.40	0.22	18.25	23.40
				Groundwater Elevation (FT. AMSL)	692.53	687.38			
				Measured Well Depth (FT.)	27.82	27.82		19.20	24.14
				Submerged Screen	No	No			
MW-5B	709.55	696.55	23.1	Static Water Level (FT.)	7.56	N/A	0.18	7.56	N/A
				Groundwater Elevation (FT. AMSL)	701.99	N/A			
				Measured Well Depth (FT.)	23.28	N/A		11.04	N/A
				Submerged Screen	Yes	N/A			
MW-6B	712.52	694.87	22.7	Static Water Level (FT.)	11.75	15.82	0.60	11.75	15.82
				Groundwater Elevation (FT. AMSL)	700.77	696.70			
				Measured Well Depth (FT.)	23.10	23.25		13.14	16.44
				Submerged Screen	Yes	Yes			
MW-7B1	714.31	692.38	26.9	Static Water Level (FT.)	11.33	N/A	0.17	11.33	N/A
				Groundwater Elevation (FT. AMSL)	702.98	N/A			
				Measured Well Depth (FT.)	26.73	N/A		17.09	N/A
				Submerged Screen	Yes	N/A			
MW-8B	717.22	704.89	22.3	Static Water Level (FT.)	9.35	N/A	0.60	9.35	N/A
				Groundwater Elevation (FT. AMSL)	707.87	N/A			
				Measured Well Depth (FT.)	22.90	N/A		12.24	N/A
				Submerged Screen	Yes	N/A			
MW-11B	718.65	706.28	22.4	Static Water Level (FT.)	7.65	10.02	0.22	7.65	10.02
				Groundwater Elevation (FT. AMSL)	711.00	708.63			
				Measured Well Depth (FT.)	22.18	22.23		9.97	11.96
				Submerged Screen	Yes	Yes			
MW-12B	714.55	700.40	19.2	Static Water Level (FT.)	2.21	N/A	0.00	2.21	N/A
				Groundwater Elevation (FT. AMSL)	712.34	N/A			
				Measured Well Depth (FT.)	19.20	N/A		2.83	N/A
				Submerged Screen	Yes	N/A			
MW-14B	720.92	711.47	20.1	Static Water Level (FT.)	5.76	N/A	0.16	5.76	N/A
				Groundwater Elevation (FT. AMSL)	715.16	N/A			
				Measured Well Depth (FT.)	20.25	N/A		6.61	N/A
				Submerged Screen	Yes	N/A			

Table 4A
Monitoring Well Maintenance and Performance Summary - Monitoring and Delineation Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Top of Casing (FT. AMSL)	Top of Screen (FT. AMSL)	Total Depth (FT. BTOC)	Measurement Description	Date of Measurements		Maximum Depth Discrepancy (FT.)	Spring 2024 Levels (at start and end of purgings)	Fall 2024 Levels (at start and end of purgings)
					May-24	Oct-24		(FT. BTOC)	(FT. BTOC)
MW-16A	753.12	739.36	24.4	Static Water Level (FT.)	14.70	15.45	0.32	14.70	15.45
				Groundwater Elevation (FT. AMSL)	738.42	737.67			
				Measured Well Depth (FT.)	24.05	24.05		15.54	16.19
				Submerged Screen	No	No			
MW-17A-00	772.20	747.44	39.9	Static Water Level (FT.)	23.00	N/A	0.41	23.00	N/A
				Groundwater Elevation (FT. AMSL)	749.20	N/A			
				Measured Well Depth (FT.)	40.31	N/A		25.19	N/A
				Submerged Screen	Yes	N/A			
MW-18AR	786.31	768.70	32.6	Static Water Level (FT.)	23.99	24.19	0.72	23.99	24.19
				Groundwater Elevation (FT. AMSL)	762.32	762.12			
				Measured Well Depth (FT.)	33.32	33.32		24.55	24.74
				Submerged Screen	No	N/A			
MW-23A	746.64	710.28	45.4	Static Water Level (FT.)	11.88	N/A	0.31	11.88	N/A
				Groundwater Elevation (FT. AMSL)	734.76	N/A			
				Measured Well Depth (FT.)	45.71	N/A		16.11	N/A
				Submerged Screen	Yes	N/A			
MW-24A	731.97	697.66	44.3	Static Water Level (FT.)	26.03	29.36	1.06	26.03	29.36
				Groundwater Elevation (FT. AMSL)	705.94	702.61			
				Measured Well Depth (FT.)	45.36	45.36		28.96	30.54
				Submerged Screen	Yes	Yes			
MW-25A-00	713.80	696.33	32.9	Static Water Level (FT.)	7.72	19.33	2.92	7.72	19.33
				Groundwater Elevation (FT. AMSL)	706.08	694.47			
				Measured Well Depth (FT.)	29.93	29.93		11.79	19.90
				Submerged Screen	Yes	No			
MW-29A	696.27	686.59	20.1	Static Water Level (FT.)	7.44	13.25	0.12	7.44	13.25
				Groundwater Elevation (FT. AMSL)	688.83	683.02			
				Measured Well Depth (FT.)	19.98	20.08		9.66	13.97
				Submerged Screen	Yes	No			
MW-31B	749.37	713.90	45.5	Static Water Level (FT.)	35.65	36.86	0.30	35.65	36.86
				Groundwater Elevation (FT. AMSL)	713.72	712.51			
				Measured Well Depth (FT.)	45.80	45.70		37.21	37.71
				Submerged Screen	No	No			
MW-34A	779.63	761.88	27.8	Static Water Level (FT.)	20.89	N/A	0.02	20.89	N/A
				Groundwater Elevation (FT. AMSL)	758.74	N/A			
				Measured Well Depth (FT.)	27.78	N/A		22.10	N/A
				Submerged Screen	No	N/A			
MW-38A	768.12	744.75	38.4	Static Water Level (FT.)	24.71	N/A	2.02	24.71	N/A
				Groundwater Elevation (FT. AMSL)	743.41	N/A			
				Measured Well Depth (FT.)	36.38	N/A		25.93	N/A
				Submerged Screen	No	N/A			

Table 4A
Monitoring Well Maintenance and Performance Summary - Monitoring and Delineation Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Top of Casing (FT. AMSL)	Top of Screen (FT. AMSL)	Total Depth (FT. BTOC)	Measurement Description	Date of Measurements		Maximum Depth Discrepancy (FT.)	Spring 2024 Levels (at start and end of purgings)	Fall 2024 Levels (at start and end of purgings)
					May-24	Oct-24		(FT. BTOC)	(FT. BTOC)
MW-39B	705.21	698.23	17.0	Static Water Level (FT.)	8.49	N/A	0.00	8.49	N/A
				Groundwater Elevation (FT. AMSL)	696.72	N/A			
				Measured Well Depth (FT.)	17.00	N/A		9.09	N/A
				Submerged Screen	No	N/A			
MW-200A	782.97	762.82	35.2	Static Water Level (FT.)	21.11	20.47	0.20	21.11	20.47
				Groundwater Elevation (FT. AMSL)	761.86	762.50			
				Measured Well Depth (FT.)	35.40	35.38		22.71	21.24
				Submerged Screen	No	No			
MW-201A	779.90	766.79	28.1	Static Water Level (FT.)	21.24	24.46	0.18	21.24	24.46
				Groundwater Elevation (FT. AMSL)	758.66	755.44			
				Measured Well Depth (FT.)	28.26	28.28		21.75	25.55
				Submerged Screen	No	No			
MW-202A	778.20	758.93	34.3	Static Water Level (FT.)	15.79	N/A	0.24	15.79	N/A
				Groundwater Elevation (FT. AMSL)	762.41	N/A			
				Measured Well Depth (FT.)	34.54	N/A		18.31	N/A
				Submerged Screen	Yes	N/A			
MW-203A	769.50	751.35	33.2	Static Water Level (FT.)	21.02	N/A	0.05	21.02	N/A
				Groundwater Elevation (FT. AMSL)	748.48	N/A			
				Measured Well Depth (FT.)	33.15	N/A		22.10	N/A
				Submerged Screen	No	N/A			
MW-204A	741.90	728.90	23.0	Static Water Level (FT.)	4.50	N/A	0.24	4.50	N/A
				Groundwater Elevation (FT. AMSL)	737.40	N/A			
				Measured Well Depth (FT.)	23.24	N/A		6.36	N/A
				Submerged Screen	Yes	N/A			
MW-205A	747.69	736.59	21.1	Static Water Level (FT.)	9.07	N/A	0.54	9.07	N/A
				Groundwater Elevation (FT. AMSL)	738.62	N/A			
				Measured Well Depth (FT.)	21.64	N/A		10.32	N/A
				Submerged Screen	Yes	N/A			
MW-206A	731.60	721.43	20.2	Static Water Level (FT.)	7.24	12.05	0.09	7.24	12.05
				Groundwater Elevation (FT. AMSL)	724.36	719.55			
				Measured Well Depth (FT.)	20.11	20.11		10.49	12.93
				Submerged Screen	Yes	No			
MW-207A	717.60	708.41	19.2	Static Water Level (FT.)	4.18	6.90	1.04	4.18	6.90
				Groundwater Elevation (FT. AMSL)	713.42	710.70			
				Measured Well Depth (FT.)	20.24	19.08		4.71	7.31
				Submerged Screen	Yes	Yes			
MW-208B	720.20	710.01	20.2	Static Water Level (FT.)	8.50	N/A	0.12	8.50	N/A
				Groundwater Elevation (FT. AMSL)	711.70	N/A			
				Measured Well Depth (FT.)	20.08	N/A		10.74	N/A
				Submerged Screen	Yes	N/A			

Table 4A
Monitoring Well Maintenance and Performance Summary - Monitoring and Delineation Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Top of Casing (FT. AMSL)	Top of Screen (FT. AMSL)	Total Depth (FT. BTOC)	Measurement Description	Date of Measurements		Maximum Depth Discrepancy (FT.)	Spring 2024 Levels (at start and end of purgings)	Fall 2024 Levels (at start and end of purgings)
					May-24	Oct-24		(FT. BTOC)	(FT. BTOC)
MW-209B	715.90	702.86	23.0	Static Water Level (FT.)	10.90	14.48	0.13	10.90	14.48
				Groundwater Elevation (FT. AMSL)	705.00	701.42			
				Measured Well Depth (FT.)	23.13	23.10		11.76	15.01
				Submerged Screen	Yes	No			
MW-210B	700.50	690.39	20.1	Static Water Level (FT.)	4.70	N/A	0.20	4.70	N/A
				Groundwater Elevation (FT. AMSL)	695.80	N/A			
				Measured Well Depth (FT.)	19.90	N/A		5.50	N/A
				Submerged Screen	Yes	N/A			
MW-211B	717.31	693.34	34.3	Static Water Level (FT.)	24.39	27.99	0.51	24.39	27.99
				Groundwater Elevation (FT. AMSL)	692.92	689.32			
				Measured Well Depth (FT.)	34.81	34.81		25.69	28.61
				Submerged Screen	No	No			
MW-212A	709.87	691.25	29.4	Static Water Level (FT.)	20.94	14.09	0.06	20.94	14.09
				Groundwater Elevation (FT. AMSL)	688.93	695.78			
				Measured Well Depth (FT.)	29.34	29.42		22.07	14.55
				Submerged Screen	No	Yes			
MW-213A	718.66	701.47	32.2	Static Water Level (FT.)	12.69	N/A	0.21	12.69	N/A
				Groundwater Elevation (FT. AMSL)	705.97	N/A			
				Measured Well Depth (FT.)	31.98	N/A		13.40	N/A
				Submerged Screen	Yes	N/A			
MW-214A	745.79	700.20	38.6	Static Water Level (FT.)	20.77	N/A	0.77	20.77	N/A
				Groundwater Elevation (FT. AMSL)	725.02	N/A			
				Measured Well Depth (FT.)	37.84	N/A		23.48	N/A
				Submerged Screen	Yes	N/A			
MW-215A	728.21	673.10	54.6	Static Water Level (FT.)	26.84	N/A	2.50	26.84	N/A
				Groundwater Elevation (FT. AMSL)	701.37	N/A			
				Measured Well Depth (FT.)	52.10	N/A		34.85	N/A
				Submerged Screen	Yes	N/A			
MW-216A	718.70	695.29	38.4	Static Water Level (FT.)	29.71	30.18	1.40	29.71	30.18
				Groundwater Elevation (FT. AMSL)	688.99	688.52			
				Measured Well Depth (FT.)	37.00	37.00		30.74	30.95
				Submerged Screen	No	No			
MW-217A	722.95	696.18	41.8	Static Water Level (FT.)	30.39	36.40	0.80	30.39	36.40
				Groundwater Elevation (FT. AMSL)	692.56	686.55			
				Measured Well Depth (FT.)	42.60	42.60		31.16	37.07
				Submerged Screen	No	No			
MW-218A	728.20	696.40	46.8	Static Water Level (FT.)	28.06	28.46	0.70	28.06	28.46
				Groundwater Elevation (FT. AMSL)	700.14	699.74			
				Measured Well Depth (FT.)	47.50	47.50		31.76	31.55
				Submerged Screen	Yes	Yes			

Table 4A
Monitoring Well Maintenance and Performance Summary - Monitoring and Delineation Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Top of Casing (FT. AMSL)	Top of Screen (FT. AMSL)	Total Depth (FT. BTOC)	Measurement Description	Date of Measurements		Maximum Depth Discrepancy (FT.)	Spring 2024 Levels (at start and end of purging)	Fall 2024 Levels (at start and end of purging)
					May-24	Oct-24		(FT. BTOC)	(FT. BTOC)
MW-219A	736.17	697.78	53.4	Static Water Level (FT.)	27.45	22.85	0.22	27.45	22.85
				Groundwater Elevation (FT. AMSL)	708.72	713.32			
				Measured Well Depth (FT.)	53.18	53.18		31.91	26.66
				Submerged Screen	Yes	Yes			
MW-220A	739.32	697.07	57.3	Static Water Level (FT.)	29.38	30.52	0.72	29.38	30.52
				Groundwater Elevation (FT. AMSL)	709.94	708.80			
				Measured Well Depth (FT.)	58.02	58.02		32.74	34.25
				Submerged Screen	Yes	Yes			

NOTES:

FT. - Feet

FT. AMSL - Feet Above Mean Sea Level

FT. BTOC - Feet Below Top of Casing

N/A - Not Applicable; Well was not installed at this time or was not sampled during the monitoring event.

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Table 4B
Monitoring Well Maintenance and Performance Summary - Groundwater Underdrain Piezometers
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72

Well	Bottom of Waste (FT. AMSL)		Date of Measurements											
			1/29/2024	2/29/2024	3/26/2024	4/30/2024	5/29/2024	6/27/2024	7/30/2024	8/28/2024	9/28/2024	10/30/2024	11/26/2024	12/18/2024
DP-1	692.6	Groundwater Elevation (FT. AMSL)	687.13	687.13	687.13	687.13	687.13	687.13	687.13	687.13	687.13	687.13	687.13	687.13
		Separation distance (FT.)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
DP-2	696.3	Groundwater Elevation (FT. AMSL)	689.98	689.96	690.02	689.98	690.00	689.96	689.95	690.06	689.96	690.00	690.00	690.00
		Separation distance (FT.)	6.3	6.3	6.3	6.3	6.3	6.3	6.4	6.2	6.3	6.3	6.3	6.3
DP-3	698	Groundwater Elevation (FT. AMSL)	690.93	690.97	690.98	690.98	690.98	691.00	691.00	691.02	691.02	691.02	691.00	691.02
		Separation distance (FT.)	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
DP-4	696	Groundwater Elevation (FT. AMSL)	690.90	690.87	690.89	690.90	690.90	690.94	690.95	690.95	690.97	690.97	690.97	690.97
		Separation distance (FT.)	5.1	5.1	5.1	5.1	5.1	5.1	5.0	5.0	5.0	5.0	5.0	5.0

NOTES:

FT. - Feet

FT. AMSL - Feet Above Mean Sea Level

COMMENTS:

- DP-1 transducer measurement datum is 687.13 FT. AMSL.
- DP-2 transducer measurement datum is 689.88 FT. AMSL.
- DP-3 transducer measurement datum is 690.90 FT. AMSL.
- DP-4 transducer measurement datum is 690.87 FT. AMSL.
- Measurements collected in 2024 indicated the groundwater separation distance from the bottom of waste were greater than the requirement of a minimum of five (5) feet.

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Table 5
Background and GWPS Summary
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Interwell Background/GWPS - (Low Flow Sampling Data - February 2008 to Current) - Background for Monitoring Wells using MW-34A, MW-38A, MW-39B											
Constituent	Units	Samples	Detections	Min	Max	Mean	Background Levels	Background Source	Statistical Test	GWPS	Source
Inorganics											
Antimony	mg/L	82	2	0.000163	0.00200	0.001959	0.002	Highest Non-Detect	NP Inter (NDs) 1 of 2	0.006	MCL
Arsenic	mg/L	87	26	0.000261	0.0222	0.002156	0.0222	Highest Background Detect	NP Inter (NDs) 1 of 2	0.0222	BG
Barium	mg/L	89	89	0.125	0.806	0.2219	0.806	Highest Background Detect	NP Inter (Normality) 1 of 2	2	MCL
Beryllium	mg/L	88	4	0.0000640	0.00107	0.0009861	0.00107	Highest Background Detect	NP Inter (NDs) 1 of 2	0.004	MCL
Cadmium	mg/L	83	13	0.0000540	0.00173	0.0002188	0.00173	Highest Background Detect	NP Inter (NDs) 1 of 2	0.005	MCL
Chromium	mg/L	79	22	0.000794	0.0477	0.006773	0.0477	Highest Background Detect	NP Inter (NDs) 1 of 2	0.1	MCL
Cobalt	mg/L	85	34	0.0000490	0.00445	0.0008332	0.00939	Highest Background Detect	NP Inter (NDs) 1 of 2	0.00939	BG
Copper	mg/L	81	15	0.000972	0.00534	0.004541	0.00534	Highest Background Detect	NP Inter (NDs) 1 of 2	1.3	MCL
Lead	mg/L	87	15	0.000198	0.0128	0.000932	0.0128	Highest Background Detect	NP Inter (NDs) 1 of 2	0.015	MCL
Nickel	mg/L	86	29	0.000588	0.105	0.009969	0.105	Highest Background Detect	NP Inter (NDs) 1 of 2	0.105	BG
Selenium	mg/L	83	8	0.00100	0.00500	0.004745	0.00500	Highest Non-Detect	NP Inter (NDs) 1 of 2	0.05	MCL
Silver	mg/L	82	2	0.000132	0.00100	0.0009789	0.00100	Highest Non-Detect	NP Inter (NDs) 1 of 2	0.1	SWS
Thallium	mg/L	82	1	0.000200	0.00100	0.0009902	0.00100	Highest Non-Detect	NP Inter (NDs) 1 of 2	0.002	MCL
Vanadium	mg/L	81	32	0.000281	0.0200	0.00714	0.00554	Highest Background Detect	NP Inter (NDs) 1 of 2	0.035	SWS
Zinc	mg/L	86	10	0.0200	0.0684	0.02185	0.0684	Highest Background Detect	NP Inter (NDs) 1 of 2	2	SWS

COMMENTS:

Interwell prediction limits are calculated for the upgradient monitoring wells using pooled background data from MW-34A, MW-38A, and MW-39B for inorganic constituents. Background data is evaluated for potential trends and outliers prior to statistical analysis, as provided in **Appendix B**.

Intrawell Background/GWPS Underdrain WT-1 (Sampling Data - October 2017 to October 2021)											
Constituent	Units	Samples	Detections	Min	Max	Mean	Background Levels	Background Source	Statistical Test	GWPS	Source
Inorganics											
Antimony	mg/L	10	1	0.000239	0.00200	0.001824	0.00100	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.006	MCL
Arsenic	mg/L	10	7	0.000853	0.0062	0.002933	0.009447	Parametric Limit	Param Intra 1 of 2	0.010	MCL
Barium	mg/L	9	9	0.0584	0.276	0.1962	0.4891	Parametric Limit	Param Intra 1 of 2	2	MCL
Beryllium	mg/L	10	0	0.00400	0.00400	0.00400	0.000330	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.004	MCL
Cadmium	mg/L	10	0	0.000800	0.000800	0.000800	0.000200	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.005	MCL
Chromium	mg/L	9	1	0.00120	0.00800	0.007244	0.00500	Highest Background Detect	NP Intra (NDs) 1 of 2	0.1	MCL
Cobalt	mg/L	9	9	0.000781	0.00655	0.003227	0.01128	Parametric Limit	Param Intra 1 of 2	0.01128	BG
Copper	mg/L	9	1	0.00171	0.00400	0.003746	0.00500	Highest Background Detect	NP Intra (NDs) 1 of 2	1.3	MCL
Lead	mg/L	9	5	0.000421	0.00400	0.002091	0.001617	Parametric Limit	Param Intra 1 of 2	0.015	MCL
Nickel	mg/L	10	9	0.00200	0.0256	0.008021	0.04897	Parametric Limit	Param Intra 1 of 2	0.1	SWS
Selenium	mg/L	10	2	0.00221	0.00400	0.003654	0.00233	Highest Background Detect	NP Intra (NDs) 1 of 2	0.05	MCL
Silver	mg/L	10	1	0.000590	0.00400	0.003659	0.000590	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.1	SWS
Thallium	mg/L	10	1	0.000200	0.00200	0.00182	0.000570	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.002	MCL
Vanadium	mg/L	9	3	0.00114	0.0200	0.01384	0.00500	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.035	SWS
Zinc	mg/L	10	1	0.0200	0.0315	0.02115	0.0315	Highest Background Detect	NP Intra (NDs) 1 of 2	2	SWS

COMMENTS:

Intrawell prediction limits were calculated based on background data collected from groundwater underdrain WT-1 during the period from October 2017 through October 2021 for inorganic constituents.

Table 5
Background and GWPS Summary
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Intrawell Background/GWPS Underdrain WT-2 (Sampling Data - October 2017 to October 2021)											
Constituent	Units	Samples	Detections	Min	Max	Mean	Background Levels	Background Source	Statistical Test	GWPS	Source
Inorganics											
Antimony	mg/L	10	1	0.000403	0.00200	0.00184	0.00100	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.006	MCL
Arsenic	mg/L	10	9	0.00200	0.0515	0.01215	0.1016	Parametric Limit	Param Intra 1 of 2	0.1016	BG
Barium	mg/L	10	10	0.0286	0.240	0.1581	0.3807	Parametric Limit	Param Intra 1 of 2	2	MCL
Beryllium	mg/L	10	1	0.000538	0.00400	0.003654	0.000538	Highest Background Detect	NP Intra (NDs) 1 of 2	0.004	MCL
Cadmium	mg/L	10	1	0.000100	0.000800	0.000730	0.000100	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.005	MCL
Chromium	mg/L	9	0	0.00800	0.00800	0.00800	0.00120	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.1	MCL
Cobalt	mg/L	10	10	0.000300	0.00760	0.003681	0.01195	Parametric Limit	Param Intra 1 of 2	0.01195	BG
Copper	mg/L	9	0	0.00400	0.00400	0.00400	0.00180	Highest Non-Detect	NP Intra (NDs) 1 of 2	1.3	MCL
Lead	mg/L	9	2	0.000344	0.00400	0.003213	0.000575	Highest Background Detect	NP Intra (NDs) 1 of 2	0.015	MCL
Nickel	mg/L	10	10	0.00150	0.0196	0.008096	0.02661	Parametric Limit	Param Intra 1 of 2	0.1	SWS
Selenium	mg/L	10	1	0.00178	0.00400	0.003778	0.00178	Highest Background Detect	NP Intra (NDs) 1 of 2	0.05	MCL
Silver	mg/L	10	0	0.00400	0.00400	0.00400	0.000500	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.1	SWS
Thallium	mg/L	10	1	0.000200	0.00200	0.00182	0.000570	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.002	MCL
Vanadium	mg/L	9	1	0.00129	0.0200	0.01792	0.00500	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.035	SWS
Zinc	mg/L	10	1	0.0200	0.0307	0.02107	0.0307	Highest Background Detect	NP Intra (NDs) 1 of 2	2	SWS

COMMENTS:

Intrawell prediction limits were calculated based on background data collected from groundwater underdrain WT-2 during the period from October 2017 through October 2021 for inorganic constituents.

Intrawell Background/GWPS Underdrain WT-3 (Sampling Data - October 2017 to May 2022)											
Constituent	Units	Samples	Detections	Min	Max	Mean	Background Levels	Background Source	Statistical Test	GWPS	Source
Inorganics											
Antimony	mg/L	11	1	0.000233	0.00200	0.001839	0.00100	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.006	MCL
Arsenic	mg/L	10	10	0.00241	0.0208	0.01299	0.03575	Parametric Limit	Param Intra 1 of 2	0.03575	BG
Barium	mg/L	10	10	0.0558	0.170	0.1093	0.2712	Parametric Limit	Param Intra 1 of 2	2	MCL
Beryllium	mg/L	10	0	0.00400	0.00400	0.00400	0.000330	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.004	MCL
Cadmium	mg/L	10	0	0.000800	0.000800	0.000800	0.000100	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.005	MCL
Chromium	mg/L	9	9	0.00800	0.00800	0.00800	0.00500	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.1	MCL
Cobalt	mg/L	10	10	0.000600	0.00835	0.002748	0.02079	Parametric Limit	Param Intra 1 of 2	0.02079	BG
Copper	mg/L	10	2	0.00400	0.00520	0.004225	0.00520	Highest Background Detect	NP Intra (NDs) 1 of 2	1.3	MCL
Lead	mg/L	9	0	0.00400	0.00400	0.00400	0.000500	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.015	MCL
Nickel	mg/L	10	10	0.000900	0.0152	0.004666	0.02137	Parametric Limit	Param Intra 1 of 2	0.1	SWS
Selenium	mg/L	10	0	0.00400	0.00400	0.00400	0.00140	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.05	MCL
Silver	mg/L	11	0	0.00400	0.00400	0.00400	0.000500	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.1	SWS
Thallium	mg/L	11	0	0.00200	0.00200	0.00200	0.000570	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.002	MCL
Vanadium	mg/L	9	0	0.0200	0.0200	0.0200	0.00500	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.035	SWS
Zinc	mg/L	10	1	0.0174	0.0200	0.01974	0.0200	Highest Non-Detect	NP Intra (NDs) 1 of 2	2	SWS

COMMENTS:

Intrawell prediction limits were calculated based on background data collected from groundwater underdrain WT-3 during the period from October 2017 through May 2022 for inorganic constituents.

Table 5
Background and GWPS Summary
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Intrawell Background/GWPS Underdrain WT-4 (Sampling Data - October 2017 to April 2021)											
Constituent	Units	Samples	Detections	Min	Max	Mean	Background Levels	Background Source	Statistical Test	GWPS	Source
Inorganics											
Antimony	mg/L	9	1	0.000267	0.00200	0.001807	0.00100	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.006	MCL
Arsenic	mg/L	9	4	0.00107	0.00400	0.003028	0.00266	Highest Background Detect	NP Intra (NDs) 1 of 2	0.010	MCL
Barium	mg/L	9	9	0.0229	0.0669	0.0324	0.1258	Parametric Limit	Param Intra 1 of 2	2	MCL
Beryllium	mg/L	9	0	0.00400	0.00400	0.00400	0.000330	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.004	MCL
Cadmium	mg/L	9	3	0.000100	0.000220	0.0001251	0.000220	Highest Background Detect	NP Intra (NDs) 1 of 2	0.005	MCL
Chromium	mg/L	8	0	0.00800	0.00800	0.00800	0.00500	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.1	MCL
Cobalt	mg/L	9	8	0.000101	0.00208	0.0007676	0.003575	Parametric Limit	Param Intra 1 of 2	0.003575	BG
Copper	mg/L	9	1	0.00400	0.00498	0.004109	0.00500	Highest Non-Detect	NP Intra (NDs) 1 of 2	1.3	MCL
Lead	mg/L	8	3	0.000206	0.00400	0.002658	0.000645	Highest Background Detect	NP Intra (NDs) 1 of 2	0.015	MCL
Nickel	mg/L	9	8	0.00241	0.0275	0.01066	0.04288	Parametric Limit	Param Intra 1 of 2	0.1	SWS
Selenium	mg/L	8	1	0.00148	0.00400	0.003685	0.00148	Highest Background Detect	NP Intra (NDs) 1 of 2	0.05	MCL
Silver	mg/L	9	0	0.00400	0.00400	0.00400	0.000500	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.1	SWS
Thallium	mg/L	9	0	0.00200	0.00200	0.00200	0.000570	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.002	MCL
Vanadium	mg/L	8	1	0.00142	0.0200	0.01768	0.00500	Highest Non-Detect	NP Intra (NDs) 1 of 2	0.035	SWS
Zinc	mg/L	9	2	0.0128	0.0200	0.01843	0.0200	Highest Non-Detect	NP Intra (NDs) 1 of 2	2	SWS

COMMENTS:

Intrawell prediction limits were calculated based on background data collected from groundwater underdrain WT-4 during the period from October 2017 through April 2021 for inorganic constituents.

NOTES:

BG - Background; Value is established from a site-specific background concentration.

GWPS - Groundwater Protection Standard

MCL - Maximum Contaminant Level; Value is established in the United States Environmental Protection Agency's National Primary Drinking Water Regulations

mg/L - milligrams per liter

SWS - Statewide Standard; Iowa Department of Natural Resources Statewide Standards for a Protected Groundwater Source

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Table 6
Summary of Well/Detected Constituent Pairs with No Previous SSIs
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well/Monitoring Location	Constituent	Units	Most Recent Result October 2024	Interwell/Intrawell Background Standard
HMSP Series A & Series B Monitoring Wells (Interwell Background Standard)				
No compliance monitoring wells were monitored under the Detection Monitoring Program.				
Groundwater Underdrains (Intrawell Background Standard)				
ST-1	N/A - No sample collected during monitoring event.			
WT-OF ⁽¹⁾	Barium	mg/L	0.113	N/A
	Cadmium	mg/L	0.000100 J	N/A
	Cobalt	mg/L	0.000769	N/A
	Nickel	mg/L	0.0194	N/A
	TSS ⁽²⁾	mg/L	<1.88	N/A
WT-1	Arsenic	mg/L	0.00668	0.009447
	Barium	mg/L	0.480	0.4891
	Cadmium	mg/L	0.000134 J	0.0002
	Chromium	mg/L	<u>0.0126</u>	0.005
	Cobalt	mg/L	<u>0.0179</u>	0.01128
	Copper	mg/L	<u>0.00956</u>	0.005
	Lead	mg/L	<u>0.00597</u>	0.001617
	Nickel	mg/L	0.0143	0.04897
	Vanadium	mg/L	<u>0.0210</u>	0.005
	Zinc	mg/L	0.0291	0.0315
	TSS ⁽²⁾	mg/L	4570	N/A
WT-2	Arsenic	mg/L	0.0126	0.1016
	Barium	mg/L	0.205	0.3807
	Cobalt	mg/L	0.00192	0.01195
	Lead	mg/L	0.000334 J	0.000575
	Nickel	mg/L	0.00250 J	0.02661
	Vanadium	mg/L	0.00121 J	0.005
	TSS ⁽²⁾	mg/L	83.0	N/A
WT-3	Arsenic	mg/L	0.0349	0.03575
	Barium	mg/L	<u>0.544</u>	0.2712
	Chromium	mg/L	0.00361 J	0.005
	Cobalt	mg/L	0.00456	0.02079
	Copper	mg/L	0.00320 J	0.0052
	Lead	mg/L	<u>0.00162</u>	0.0005
	Nickel	mg/L	0.00710	0.02137
	Vanadium	mg/L	<u>0.00703</u>	0.005
	Zinc	mg/L	0.0115 J	0.02
	TSS ⁽²⁾	mg/L	158	N/A

Table 6
Summary of Well/Detected Constituent Pairs with No Previous SSIs
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well/Monitoring Location	Constituent	Units	Most Recent Result October 2024	Interwell/Intrawell Background Standard
WT-4	Arsenic	mg/L	0.00208	0.00266
	Barium	mg/L	0.132	0.1258
	Cadmium	mg/L	0.000203	0.00022
	Chromium	mg/L	0.00469 J	0.005
	Cobalt	mg/L	0.00511	0.003575
	Copper	mg/L	0.00458 J	0.005
	Lead	mg/L	0.00269	0.000645
	Nickel	mg/L	0.0336	0.04288
	Vanadium	mg/L	0.00827	0.005
	Zinc	mg/L	0.0172 J	0.02
	TSS ⁽²⁾	mg/L	566	N/A

NOTES:

BOLD - Result is above the respective interwell/intrawell prediction limit.

⁽¹⁾ The background database is being established for WT-OF, and background standards are not currently established for the monitoring point.

⁽²⁾ TSS data is presented for additional information and is not compared to a background standard.

J - A laboratory flag for a constituent detected between the method detection limit (MDL) and the laboratory's reporting limit (RL). The concentrations are estimated values and are not considered statistically significant.

mg/L - milligrams per liter

N/A - Not Applicable

TSS - Total Suspended Solids

COMMENTS:

- This table reports only constituents with concentrations detected above the MDL at monitoring locations in the Detection Monitoring Program. The full list of constituents analyzed at these monitoring locations during the monitoring event is in the laboratory analytical reports included in **Appendix D**.

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Table 7
Summary of Ongoing and Newly Identified SSIs in Assessment Monitoring
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Constituent	Units	Most Recent Result October 2024	Background Standard	LCL	GWPS
Series A Monitoring Wells						
MW-17A-00	Not sampled during monitoring event.					
MW-18AR	cis-1,2-Dichloroethene	µg/L	1.36	1.00 (RL)	1.36	70
	1,1-Dichloroethane	µg/L	0.481 J	1.00 (RL)	N/A - No SSI	140
	Dichlorodifluoromethane	µg/L	5.28	3.00 (RL)	4.841	1,000
	Tetrachloroethene	µg/L	3.95	1.00 (RL)	3.557	5
	Trichloroethene	µg/L	1.10	1.00 (RL)	1.137	5
	Trichlorofluoromethane	µg/L	2.14 J	4.00 (RL)	N/A - No SSI	2,000
	Barium	mg/L	0.773	0.806	N/A - No SSI	2
	TSS ⁽¹⁾	mg/L	<1.88	N/A	N/A	N/A
MW-23A	Not sampled during monitoring event.					
MW-24A	Arsenic	mg/L	0.0104	0.0222	N/A - No SSI	0.0222
	Barium	mg/L	0.306	0.806	N/A - No SSI	2
	Cobalt	mg/L	0.00854	0.00939	N/A - No SSI	0.00939
	Nickel	mg/L	0.00768	0.105	N/A - No SSI	0.105
	TSS ⁽¹⁾	mg/L	20.0	N/A	N/A	N/A
MW-25A-00	Barium	mg/L	0.195	0.806	N/A - No SSI	2
	TSS ⁽¹⁾	mg/L	<1.88	N/A	N/A	N/A
MW-29A	Arsenic	mg/L	0.00111 J	0.0222	N/A - No SSI	0.0222
	Barium	mg/L	0.284	0.806	N/A - No SSI	2
	Cobalt	mg/L	0.00642	0.00939	N/A - No SSI	0.00939
	Nickel	mg/L	0.0211	0.105	N/A - No SSI	0.105
	TSS ⁽¹⁾	mg/L	5.88	N/A	N/A	N/A
MW-200A	Dichlorodifluoromethane	µg/L	0.797 J	3.00 (RL)	N/A - No SSI	1,000
	Barium	mg/L	1.07	0.806	0.853	2
	Cobalt	mg/L	0.000263 J	0.00939	N/A - No SSI	0.00939
	TSS ⁽¹⁾	mg/L	9.38	N/A	N/A	N/A

Table 7
Summary of Ongoing and Newly Identified SSIs in Assessment Monitoring
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City of Iowa City Sanitary Landfill
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Well	Constituent	Units	Most Recent Result October 2024	Background Standard	LCL	GWPS
MW-201A	1,1-Dichloroethane	µg/L	0.416 J	1.00 (RL)	N/A - No SSI	140
	Barium	mg/L	0.247	0.806	N/A - No SSI	2
	TSS ⁽¹⁾	mg/L	12.4	N/A	N/A	N/A
MW-202A	Not sampled during monitoring event.					
MW-203A	Not sampled during monitoring event.					
MW-204A	Not sampled during monitoring event.					
MW-205A	Not sampled during monitoring event.					
MW-213A	Not sampled during monitoring event.					
MW-214A	Not sampled during monitoring event.					
MW-215A	Not sampled during monitoring event.					
MW-216A	Barium	mg/L	0.0508	0.806	N/A - No SSI	2
	Nickel	mg/L	0.00417 J	0.105	N/A - No SSI	0.105
	Selenium	mg/L	0.00144 J	0.005	N/A - No SSI	0.05
	TSS ⁽¹⁾	mg/L	6.00	N/A	N/A	N/A
MW-217A	Barium	mg/L	0.0906	0.806	N/A - No SSI	2
	TSS ⁽¹⁾	mg/L	<1.88	N/A	N/A	N/A
MW-218A	Barium	mg/L	0.244	0.806	N/A - No SSI	2
	TSS ⁽¹⁾	mg/L	<1.88	N/A	N/A	N/A
MW-219A	Barium	mg/L	0.607	0.806	N/A - No SSI	2
	TSS ⁽¹⁾	mg/L	<1.88	N/A	N/A	N/A
MW-220A	Barium	mg/L	0.298	0.806	N/A - No SSI	2
	TSS ⁽¹⁾	mg/L	<1.88	N/A	N/A	N/A
Series B Monitoring Wells						
MW-1B	Barium	mg/L	0.630	0.806	N/A - No SSI	2
	TSS ⁽¹⁾	mg/L	42.0	N/A	N/A	N/A
MW-5B	Not sampled during monitoring event.					
MW-7B1	Not sampled during monitoring event.					

Table 7
Summary of Ongoing and Newly Identified SSIs in Assessment Monitoring
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Constituent	Units	Most Recent Result October 2024	Background Standard	LCL	GWPS
MW-8B	Not sampled during monitoring event.					
MW-12B	Not sampled during monitoring event.					
MW-14B	Not sampled during monitoring event.					
MW-31B	Barium	mg/L	0.408	0.806	N/A - No SSI	2
	Cobalt	mg/L	0.000243 J	0.00939	N/A - No SSI	0.00939
	Lead	mg/L	0.000439 J	0.0128	N/A - No SSI	0.015
	TSS ⁽¹⁾	mg/L	36.7	N/A	N/A	N/A
MW-208B	Not sampled during monitoring event.					
MW-210B	Not sampled during monitoring event.					
Attenuation Zone Point of Compliance (AZPOC)						
MW-1B	Barium	mg/L	0.630	0.806	N/A - No SSI	2
	TSS ⁽¹⁾	mg/L	42.0	N/A	N/A	N/A
MW-10B	Barium	mg/L	0.148	0.806	N/A - No SSI	2
	Cadmium	mg/L	0.000166 J	0.00173	N/A - No SSI	0.005
	Selenium	mg/L	0.00519	0.00500	0.002714	0.05
	Vanadium	mg/L	0.00169 J	0.00554	N/A - No SSI	0.035
	Toluene	µg/L	2.31	1.00 (RL)	1	1,000
	TSS ⁽¹⁾	mg/L	1.88	N/A	N/A	N/A
MW-310A	Barium	mg/L	0.124	0.806	N/A - No SSI	2
	TSS ⁽¹⁾	mg/L	1.63 J	N/A	N/A	N/A
MW-312A	Barium	mg/L	0.171	0.806	N/A - No SSI	2
	Chromium	mg/L	0.00607	0.0477	N/A - No SSI	0.1
	Cobalt	mg/L	0.000318 J	0.00939	N/A - No SSI	0.00939
	Nickel	mg/L	0.00227 J	0.105	N/A - No SSI	0.105
	Thallium	mg/L	0.000628 J	0.00100	N/A - No SSI	0.002
	TSS ⁽¹⁾	mg/L	2.63	N/A	N/A	N/A

Table 7
Summary of Ongoing and Newly Identified SSIs in Assessment Monitoring
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Constituent	Units	Most Recent Result October 2024	Background Standard	LCL	GWPS
MW-408	Barium	mg/L	0.177	0.806	N/A - No SSI	2
	Cadmium	mg/L	0.000359	0.00173	N/A - No SSI	0.005
	Cobalt	mg/L	0.000490 J	0.00939	N/A - No SSI	0.00939
	Nickel	mg/L	0.00322 J	0.105	N/A - No SSI	0.105
	Thallium	mg/L	0.000668 J	0.00100	N/A - No SSI	0.002
	Vanadium	mg/L	0.00449 J	0.00554	N/A - No SSI	0.035
	TSS ⁽¹⁾	mg/L	20.6	N/A	N/A	N/A
MW-410	Barium	mg/L	0.0925	0.806	N/A - No SSI	2
	Cobalt	mg/L	0.000299 J	0.00939	N/A - No SSI	0.00939
	Nickel	mg/L	0.00282 J	0.105	N/A - No SSI	0.105
	TSS ⁽¹⁾	mg/L	1.50 J	N/A	N/A	N/A

NOTES:

⁽¹⁾ TSS data is presented for additional information and is not compared to a background standard or GWPS.

J - A laboratory flag for a constituent detected between the method detection limit (MDL) and the laboratory's reporting limit (RL). The concentrations are estimated values and are not considered statistically significant.

mg/L - milligrams per liter

µg/L - micrograms per liter

GWPS - Groundwater Protection Standard

LCL - Lower Confidence Limit

N/A - Not Applicable

SSI - Statistically Significant Increase

TSS - Total Suspended Solids

COMMENTS:

- This table reports only constituents with concentrations detected above the MDL at monitoring locations in the Assessment Monitoring Program or are an Attenuation Zone Point of Compliance (AZPOC) monitoring wells. The full list of constituents analyzed at these monitoring locations during the monitoring event is in the laboratory analytical reports included in **Appendix D**.

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Table 8
Summary of Ongoing and Newly Identified SSLs
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Constituent	Units	Most Recent Result October 2024	Upper Confidence Limit	GWPS	Initial Exceedance (Confirmed SSI)
<i>Series A Monitoring Wells</i>						
No ongoing or newly identified SSLs						
<i>Series B Monitoring Wells</i>						
No ongoing or newly identified SSLs						
<i>Attenuation Zone Point of Compliance (AZPOC)</i>						
No ongoing or newly identified SSLs						

COMMENTS:

- No ongoing or new SSLs were identified during the fall 2024 sampling event.

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Table 9A
Analytical Data Summary - Monitoring Wells
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

NOTES:

Historical analytical data for site monitoring wells is summarized on Table 9A included in **Appendix E**.

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Table 9B
Analytical Data Summary - Underdrains
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

NOTES:

Historical analytical data for site underdrains is summarized on Table 9B included in **Appendix E**.

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Table 10
Historic SSIs and SSLs
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Key:		S		S		S		S		S		S		S	
SSI - 		p	F	p	F	p	F	p	F	p	F	p	F	p	F
SSL - 		r	a	r	a	r	a	r	a	r	a	r	a	r	a
		i	i	i	i	i	i	i	i	i	i	i	i	i	i
		n	n	n	n	n	n	n	n	n	n	n	n	n	n
		g	l	g	l	g	l	g	l	g	l	g	l	g	l
Well	Constituent	2018	2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024
Series A Monitoring Wells															
MW-1A*	Arsenic														
MW-2A-97*	Cobalt														
MW-16A*	1,1-Dichloroethane														
	1,2-Dichloroethane														
	1,2-Dichloropropane														
	Benzene														
	cis-1,2-Dichloroethene														
	Dichlorodifluoromethane														
	Tetrachloroethene														
	Trichloroethene														
	Trichlorofluoromethane														
MW-18AR	Vinyl Chloride														
	Barium														
	1,1-Dichloroethane														
	cis-1,2-Dichloroethene														
	Dichlorodifluoromethane														
	Sulfide														
	Tetrachloroethene														
	Trichloroethene														
MW-200A	Trichlorofluoromethane														
	Barium														
MW-205A	Dichlorodifluoromethane														
	Toluene														
MW-206A*	1,1-Dichloroethane														
	cis-1,2-Dichloroethene														
	Dichlorodifluoromethane														
	Tetrachloroethene														
	Trichloroethene														
MW-207A*	Arsenic														
	Sulfide														
MW-212A*	Arsenic														
MW-216A	2-Butanone (MEK)														
	Sulfide														
MW-218A	Sulfide														
MW-219A	Sulfide														
MW-408	Cobalt														
Series B Monitoring Wells															
MW-1B	Toluene														
MW-5B	Toluene								NS		NS		NS		
MW-6B*	Arsenic														
	Cobalt														
	Sulfide														
MW-7B1	1,1-Dichloroethane								NS		NS		NS		
MW-8B	1,1-Dichloroethane								NS		NS		NS		
	Acetone								NS		NS		NS		
	Arsenic								NS		NS		NS		
	Sulfide								NS		NS		NS		

Table 10
Historic SSIs and SSLs
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Key:		S		S		S		S		S		S		S	
SSI - 		p	F	p	F	p	F	p	F	p	F	p	F	p	F
SSL - 		r	a	r	a	r	a	r	a	r	a	r	a	r	a
		i	i	i	i	i	i	i	i	i	i	i	i	i	i
		n	n	n	n	n	n	n	n	n	n	n	n	n	n
		g	l	g	l	g	l	g	l	g	l	g	l	g	l
Well	Constituent	2018	2018	2019	2019	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024
MW-10B	Selenium														^
	Toluene														^
MW-11B*	Arsenic														
	Chloroethane														
MW-12B	Bis[2-ethylhexyl] phthalate*								NS		NS		NS		
MW-14B	1,1-Dichloroethane								NS		NS		NS		
MW-209B*	Arsenic														
	Acetone														
	Benzene														
	beta-BHC														
	2,4,5-TP [Silvex]														
	Sulfide														
	Toluene														
	Xylenes														
MW-211B*	Cobalt														
Groundwater Underdrains															
WT-1	Chromium										NS				
	Cobalt										NS				
	Copper										NS				
	Lead										NS				
	Nickel										NS				
	Vanadium										NS				
WT-2	Acetone										NS				
	Benzene										NS				
WT-3	Barium										NS				
	Benzene										NS				
	Bromodichloromethane										NS				
	Chloroform										NS				
	Lead										NS				
	Vanadium										NS				
WT-4	Barium										NS				
	Bromodichloromethane										NS				
	Chloroform										NS				
	Cobalt										NS				
	Lead										NS				
	Vanadium										NS				

NOTES:

* - Indicates the monitoring well was designated as a source well in Revised Permit #7, dated September 2, 2021 (Iowa Department of Natural Resources Doc #101157). Statistical conclusions in accordance with 567 IAC 113.10(6) are no longer applicable after this date.

+ - The bis[2-ethylhexyl]phthalate SSI was not confirmed due to suspected laboratory contamination.

^ - Current result is above background. The constituent is not an active SSI. This SSI will be verified during the next sampling event.

NS - Not Sampled; The monitoring point is either sampled annually or was dry during the monitoring event.

SSI - Statistically Significant Increase

SSL - Statistically Significant Level

COMMENTS:

- For the 2022 reporting period and earlier, only initial confirmed SSIs were recorded on this table for inorganic constituents. Beginning in the 2023 reporting period, potential inorganic SSIs are included in this table.

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Table 11
Summary of Detections at Bracketing Wells
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Constituent	Units	Most Recent Result October 2024	UCL	GWPS
Corrective Action Bracketing Wells					
MW-2C-97	Cobalt	mg/L	0.00581	0.006739	0.00939
	TSS ⁽¹⁾	mg/L	2.50	N/A	N/A
MW-7C	Arsenic	mg/L	0.00197 J	0.002603	0.0222
	TSS ⁽¹⁾	mg/L	10.7	N/A	N/A
MW-11D	Arsenic	mg/L	0.00251	0.004	0.0222
	TSS ⁽¹⁾	mg/L	19.5	N/A	N/A
MW-15A	Arsenic	mg/L	0.0147	0.0147	0.0222
	TSS ⁽¹⁾	mg/L	39.8	N/A	N/A
MW-18A-07 ⁽²⁾	Arsenic	mg/L	0.00305	0.00756	0.0222
	Benzene	µg/L	1.74	4.914	5
	Cobalt	mg/L	0.00281	0.004657	0.00939
	Tetrachloroethene	µg/L	24.6	40.35	5
	Trichloroethene	µg/L	28.9	37.99	5
	Vinyl chloride	µg/L	21.5	29.63	2
	TSS ⁽¹⁾	mg/L	4.00	N/A	N/A
MW-306A	TSS ⁽¹⁾	mg/L	2.38	N/A	N/A
MW-404	No monitored constituents detected above laboratory reporting limits.				
MW-407	Arsenic	mg/L	0.000826 J	0.004	0.0222
	TSS ⁽¹⁾	mg/L	9.25	N/A	N/A
MW-409	Arsenic	mg/L	0.0321	0.03859	0.0222
	Cobalt	mg/L	0.00831	0.009102	0.00939
	TSS ⁽¹⁾	mg/L	48.0	N/A	N/A

NOTES:

BOLD - Result is above the GWPS.

⁽¹⁾ TSS data is presented for additional information and is not compared to a background standard or GWPS.

⁽²⁾ The Iowa Department of Natural Resources approved HDR's recommendation in a letter dated November 13, 2024, for monitoring well MW-18A-07 to move from a bracketing/delineation monitoring well to a source characterization well.

J - A laboratory flag for a constituent detected between the method detection limit (MDL) and the laboratory's reporting limit (RL). The concentrations are estimated values and are not considered statistically significant.

mg/L - milligrams per liter

µg/L - micrograms per liter

GWPS - Groundwater Protection Standard

N/A - Not Applicable

TSS - Total Suspended Solids

UCL - Upper Confidence Limit

COMMENTS:

- This table reports only constituents with concentrations detected above the MDL at monitoring locations that are identified as Corrective Action Bracketing Wells. The full list of constituents analyzed at these monitoring locations during the monitoring event is in the laboratory analytical reports included in **Appendix D**.

- Confidence intervals were calculated using the eight (8) most recent measurements for each constituent detected above the MDL during the semiannual compliance monitoring event. Under Corrective Action Monitoring, the UCL is compared to the GWPS to identify the relative impact to the groundwater at the Bracketing Well location and if concentrations have been reduced.

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Table 12
Corrective Action Trend Analysis
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Constituent	Trend slope	Units	Calculated S	Critical S	Statistically Significant Trend	N
Source Characterization Monitoring Wells							
MW-1A	Arsenic	-0.01768	mg/L/year	-14	-20	No	8
	Barium	-0.07095	mg/L/year	-8	-20	No	8
	Cobalt	-0.0004493	mg/L/year	-10	-20	No	8
	Nickel	0.0001245	mg/L/year	11	20	No	8
MW-2A-97	Arsenic	-0.004209	mg/L/year	-12	-20	No	8
	Barium	-0.02916	mg/L/year	-8	-20	No	8
	Cadmium	-0.0002128	mg/L/year	-19	-20	No	8
	Cobalt	-0.000841	mg/L/year	-9	-20	No	8
	Nickel	-0.0004325	mg/L/year	-7	-20	No	8
MW-16A	Benzene	0.02371	µg/L/year	9	20	No	8
	<u>cis-1,2-Dichloroethene</u>	<u>1.071</u>	<u>µg/L/year</u>	<u>22</u>	<u>20</u>	<u>Yes</u>	<u>8</u>
	1,1-Dichloroethane	0.02184	µg/L/year	2	20	No	8
	1,2-Dichloroethane	0.0423	µg/L/year	7	20	No	8
	1,2-Dichloropropane	-0.04703	µg/L/year	-5	-20	No	8
	Tetrachloroethene	-0.2971	µg/L/year	-16	-20	No	8
	Trichloroethene	-0.4141	µg/L/year	-12	-20	No	8
	Vinyl Chloride	0.1438	µg/L/year	4	20	No	8
	<u>Dichlorodifluoromethane</u>	<u>-0.918</u>	<u>µg/L/year</u>	<u>-22</u>	<u>-20</u>	<u>Yes</u>	<u>8</u>
	Barium	0.007346	mg/L/year	4	20	No	8
	Cobalt	-0.00007259	mg/L/year	-3	-20	No	8
	Nickel	-0.00002709	mg/L/year	0	20	No	8
	Thallium	-0.0003972	mg/L/year	-19	-20	No	8
MW-206A	<u>cis-1,2-Dichloroethene</u>	<u>-0.4719</u>	<u>µg/L/year</u>	<u>-26</u>	<u>-20</u>	<u>Yes</u>	<u>8</u>
	<u>1,1-Dichloroethane</u>	<u>-2.841</u>	<u>µg/L/year</u>	<u>-22</u>	<u>-20</u>	<u>Yes</u>	<u>8</u>
	Tetrachloroethene	-0.07224	µg/L/year	-8	-20	No	8
	Trichloroethene	-0.339	µg/L/year	-19	-20	No	8
	Dichlorodifluoromethane	-2.266	µg/L/year	-18	-20	No	8
	Barium	-0.02134	mg/L/year	-20	-20	No	8
	Selenium	-0.0001518	mg/L/year	-2	-20	No	8
MW-207A	Arsenic	0.0012	mg/L/year	4	20	No	8
	Barium	-0.0213	mg/L/year	-18	-20	No	8
	Cobalt	-0.00004957	mg/L/year	-9	-20	No	8
MW-212A	Acetone	0	µg/L/year	0	20	No	8
	Arsenic	-0.000253	mg/L/year	-2	-20	No	8
	Barium	0.0158	mg/L/year	2	20	No	8
	Cobalt	-0.0001114	mg/L/year	-6	-20	No	8
	Copper	0.0004368	mg/L/year	4	20	No	8
	Thallium	-0.0002493	mg/L/year	-10	-20	No	8
	Vanadium	-0.005407	mg/L/year	-10	-20	No	8
MW-6B	Arsenic	-0.004723	mg/L/year	-10	-20	No	8
	Barium	-0.01991	mg/L/year	-6	-20	No	8
	Cobalt	-0.0002349	mg/L/year	0	20	No	8
	Lead	-0.00116	mg/L/year	-14	-20	No	8
	Nickel	0.0007928	mg/L/year	19	20	No	8
MW-11B	1,1-Dichloroethane	0	µg/L/year	-8	-20	No	8
	Arsenic	0.003912	mg/L/year	13	20	No	8
	Barium	-0.003725	mg/L/year	0	20	No	8
	Cobalt	-0.0003303	mg/L/year	-14	-20	No	8
	Nickel	-0.0003057	mg/L/year	-16	-20	No	8
	Thallium	-0.0004082	mg/L/year	-19	-20	No	8

Table 12
Corrective Action Trend Analysis
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well	Constituent	Trend slope	Units	Calculated S	Critical S	Statistically Significant Trend	N
MW-209B	Acetone	-1.682	µg/L/year	-12	-20	No	8
	Benzene	-0.8281	µg/L/year	-20	-20	No	8
	Chlorobenzene	-0.003775	µg/L/year	-3	-20	No	8
	Xylenes, Total	-1056	µg/L/year	-18	-20	No	8
	Silvex (2,4,5-TP)	0.008918	µg/L/year	2	20	No	8
	Arsenic	0.0002954	mg/L/year	2	20	No	8
	Barium	0.02283	mg/L/year	12	20	No	8
	Cobalt	0.00003725	mg/L/year	4	20	No	8
	Nickel	0.003935	mg/L/year	22	20	Yes	8
	Vanadium	-0.005828	mg/L/year	-16	-20	No	8
	Sulfide	0.1926	mg/L/year	10	20	No	8
MW-211B	Arsenic	0.005153	mg/L/year	16	20	No	8
	Barium	-0.01389	mg/L/year	-6	-20	No	8
	Cobalt	-0.01434	mg/L/year	-16	-20	No	8
	Nickel	-0.007698	mg/L/year	-12	-20	No	8

NOTES:

BOLD - Statistically significant trend identified for constituent.

mg/L/year - milligrams per liter per year

N - Number of samples used to evaluate trend

S - Mann-Kendall Statistic

µg/L/year - micrograms per liter per year

COMMENTS:

- This table reports only trends for constituents detected above the method detection limit in the Source Characterization Monitoring Program monitoring wells.

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Table 13
CAMP - Natural Attenuation Parameters
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well ID	Date	TOC	Nitrate	Iron (Total)	Manganese (Total)	Sulfate
		mg/L	mg/L	mg/L	mg/L	mg/L
MW-1A	4/6/2015	4.93	<0.100	25.3	4.44	25.1
	10/5/2015	4.44	<0.100	22.5	3.94	25.2
	4/4/2016	5.03	1.20	24.8	4.31	23.3
	10/17/2016	4.84	<0.100	23.2	4.13	23.5
	10/20/2021	6.92	<0.100	31.9	4.02	16.5
	5/2/2022	6.94	<0.100	29.0	3.89	23.9
	5/1/2023	8.80	<0.200	39.5	4.49	57.3
	4/29/2024	5.72	<0.200	62.5	4.46	460
MW-2A-97	4/6/2015	6.83	0.461	12.4	10.5	49.6
	10/5/2015	7.05	<0.100	26.6	11.8	49.4
	4/4/2016	6.15	1.07	16.8	8.36	200
	10/17/2016	6.47	1.37	23.1	8.50	39.9
	10/20/2021	5.97	0.600	3.54	5.27	81.7
	5/2/2022	7.52	<0.100	25.7	10.5	64.4
	5/1/2023	7.21	<0.200	20.9	8.66	181
	4/29/2024	6.05	0.395	0.916	7.61	98.7
MW-16A	4/6/2015	1.17	<0.100	<0.100	0.406	23.7
	10/5/2015	1.50	<0.100	<0.100	0.261	9.48
	4/4/2016	1.31	<0.100	<0.100	0.474	20.0
	10/17/2016	0.585 J	<0.100	<0.100	0.163	8.09
	10/20/2021	2.40	<0.100	0.0720 J	0.513	9.00
	5/2/2022	3.09	<0.100	<0.100	0.185	12.3
	5/1/2023	2.59	<0.200	0.0426 J	0.317	13.1
	4/29/2024	2.00	0.238	<0.100	0.140	18.1
MW-206A	4/6/2015	1.56	0.106	<0.100	<0.0100	70.1
	10/5/2015	1.77	0.120	0.221	0.0153	74.4
	4/4/2016	1.72	0.124	0.0767 J	0.00697 J	82.9
	10/17/2016	0.991 J	0.128	<0.100	0.00939 J	69.8
	10/20/2021	2.07	0.700	<0.100	0.00800	81.1
	5/2/2022	2.19	1.10	<0.100	<0.00500	82.1
	5/1/2023	2.51	0.792	<0.100	<0.0100	79.6
	4/29/2024	2.41	2.10	0.0571 J	<0.0100	76.9

Table 13
CAMP - Natural Attenuation Parameters
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well ID	Date	TOC	Nitrate	Iron (Total)	Manganese (Total)	Sulfate
		mg/L	mg/L	mg/L	mg/L	mg/L
MW-207A	4/6/2015	10.9	<0.100	27.2	0.872	9.11
	10/5/2015	9.76	<0.100	28.6	1.04	24.1
	4/4/2016	9.54	<0.100	23.9	0.931	39.4
	10/17/2016	9.20	0.404	25.8	1.10	31.0
	10/20/2021	10.1	<0.100	31.1	1.34	<1.00
	5/2/2022	10.7	<0.100	30.8	1.28	2.70
	5/1/2023	13.2	<0.200	32.5	1.41	23.4
	4/29/2024	11.7	<0.200	27.4	1.32	39.5
MW-212A	4/6/2015	8.93	<0.100	82.4	19.0	208
	10/5/2015	16.2	<0.100	63.6	19.3	65.5
	4/4/2016	11.9	<0.100	75.1	15.2	266
	10/17/2016	17.7	1.13	68.8	17.6	109
	10/20/2021	25.8	<0.100	46.5	10.7	159
	5/2/2022	4.16	<0.100	20.1	3.92	789
	5/1/2023	4.34	<0.200	27.4	4.96	717
	4/29/2024	21.0	<0.200	5.92	10.1	693
MW-6B	4/6/2015	9.52	<0.100	63.3	20.0	<1.00
	10/5/2015	12.1	<0.100	61.2	19.5	<5.00
	4/4/2016	11.6	<0.100	64.2	21.2	<1.00
	10/17/2016	6.54	<0.100	61.3	19.7	<1.00
	10/20/2021	13.5	<0.100	35.5	12.1	81.0
	5/2/2022	13.3	<0.100	40.8	13.7	109
	5/1/2023	15.6	0.278	39.6	13.8	48.9
	4/29/2024	12.1	<0.200	25.6	13.1	111
MW-11B	4/6/2015	4.33	0.301	35.1	1.66	10.4
	10/5/2015	4.67	<0.100	36.7	1.81	8.78
	4/4/2016	4.81	<0.100	36.2	1.64	8.66
	10/17/2016	5.08	<0.100	36.1	1.43	11.5
	10/20/2021	5.82	<0.100	34.0	2.03	62.8
	5/2/2022	4.89	<0.100	20.4	0.929	69.6
	5/1/2023	4.44	0.228	18.2	1.19	73.6
	4/29/2024	5.44	<0.200	18.3	1.08	74.7

Table 13
CAMP - Natural Attenuation Parameters
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Well ID	Date	TOC	Nitrate	Iron (Total)	Manganese (Total)	Sulfate
		mg/L	mg/L	mg/L	mg/L	mg/L
MW-209B	4/6/2015	73.7	<0.1	56.6	4.10	<1.00
	10/5/2015	7.37	<0.1	60.1	4.66	<5.00
	4/4/2016	62.6	0.0980 J	57.6	4.77	0.542 J
	10/17/2016	24.4	0.662	50.8	3.87	<1.00
	10/20/2021	70.6	0.300	54.7	4.41	<1.00
	5/2/2022	55.4	0.100	56.1	4.13	<1.00
	5/1/2023	57.9	1.69	51.6	4.58	<1.00
	4/29/2024	21.0	1.27	60.3	4.88	<1.00
MW-211B	4/6/2015	2.66	<0.100	0.125	2.05	33.5
	10/5/2015	2.22	<0.100	0.0703	2.80	29.6
	4/4/2016	2.16	0.0969 J	<0.100	3.33	31.7
	10/17/2016	2.72	<0.100	0.120	3.55	28.5
	10/20/2021	NS	NS	NS	NS	NS
	5/2/2022	9.97	0.400	22.1	13.1	21.5
	5/1/2023	20.8	<0.200	70.8	11.8	4.44
	4/29/2024	8.86	<0.200	36.3	10.2	18.5

NOTES:

NS - Not Sampled

J - Laboratory qualifier indicating result is less than the reporting limit but greater than or equal to the method detection limit. The concentration is an approximate value.

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Table 14
RPD Summary
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

October 2024 Semiannual Sampling Event							
Constituent	Units	DUP-1	MW-217A	RPD	DUP-2	MW-31B	RPD
Barium	mg/L	0.0826	0.0906	9.2%	0.430	0.408	5.3%
Beryllium	mg/L	0.000529 J	<0.00100	N/A	<0.00100	<0.00100	N/A
Cadmium	mg/L	0.000664	<0.000200	N/A	<0.000200	<0.000200	N/A
Chromium	mg/L	0.00190 J	<0.00500	N/A	<0.00500	<0.00500	N/A
Cobalt	mg/L	0.000692	<0.000500	N/A	0.000170 J	0.000243 J	N/A
Lead	mg/L	0.00110	<0.000500	N/A	0.000294 J	0.000439 J	N/A
Selenium	mg/L	0.00282 J	<0.00500	N/A	<0.00500	<0.00500	N/A
Silver	mg/L	0.00241	<0.00100	N/A	0.000690 J	<0.00100	N/A
Vanadium	mg/L	0.00127 J	<0.00500	N/A	<0.00500	<0.00500	N/A

Notes:

J - A laboratory flag for a constituent detected between the method detection limit (MDL) and the laboratory's reporting limit (RL). The concentrations are estimated values and are not considered statistically significant.

mg/L - milligrams per liter

N/A - Not Applicable

RPD - Relative Percent Difference

Table 14
RPD Summary
2024 Annual Water Quality Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

October 2024 Semiannual Sampling Event								
Duplicate Pair	Constituent	Units	Duplicate Concentration	Parent Sample Concentration	Absolute Difference	RL	2*RL	Absolute Difference < 2*RL (Yes or No)
MW-217A/DUP-1	Cadmium	mg/L	0.000664	<0.000200	0.000464	0.000200	0.000400	No
MW-217A/DUP-1	Cobalt	mg/L	0.000692	<0.000500	0.000192	0.000500	0.001000	Yes
MW-217A/DUP-1	Lead	mg/L	0.00110	<0.000500	0.000600	0.000500	0.001000	Yes
MW-217A/DUP-1	Silver	mg/L	0.00241	<0.00100	0.00141	0.00100	0.002000	Yes

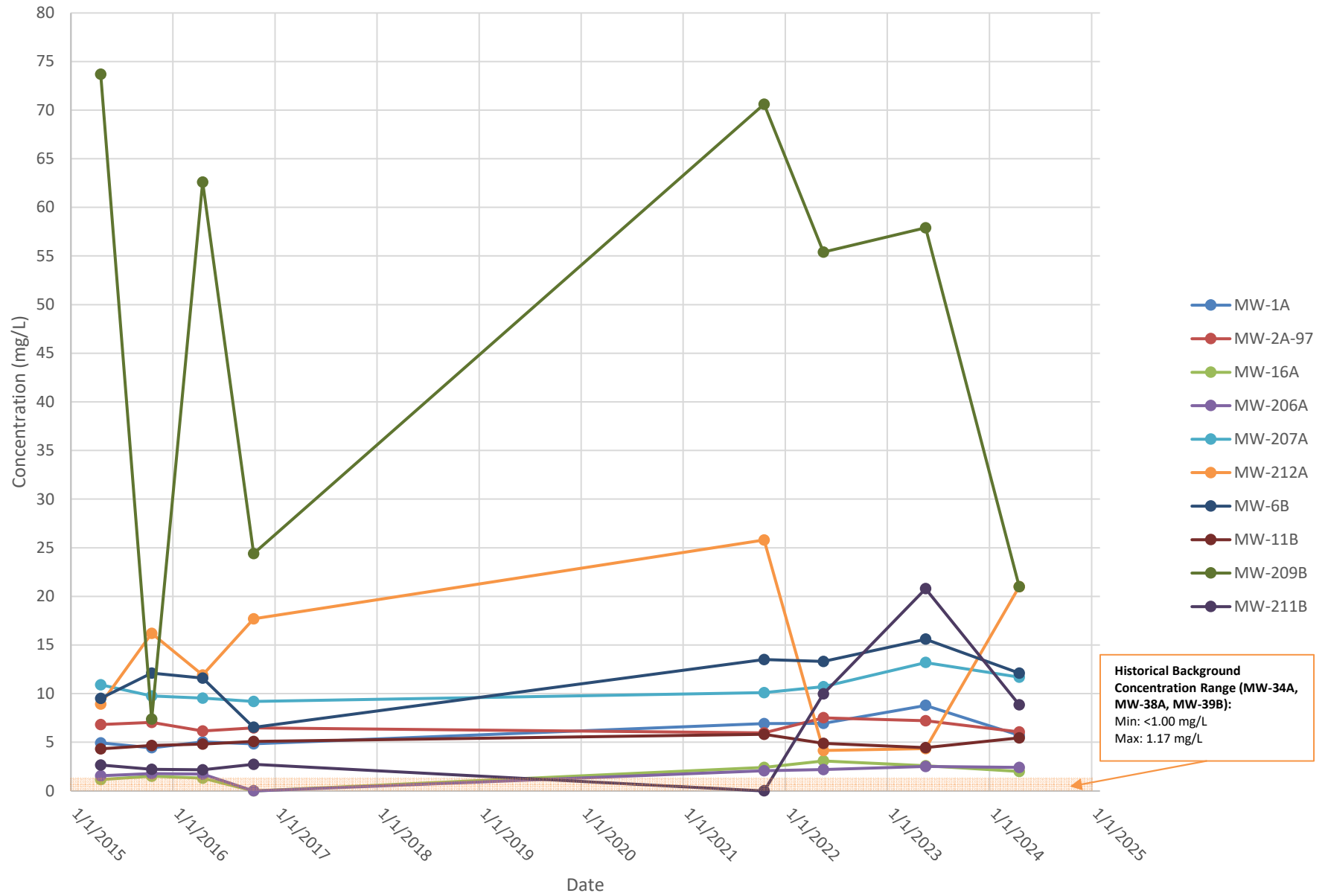
Notes:

mg/L - milligrams per liter

RL - Reporting Limit

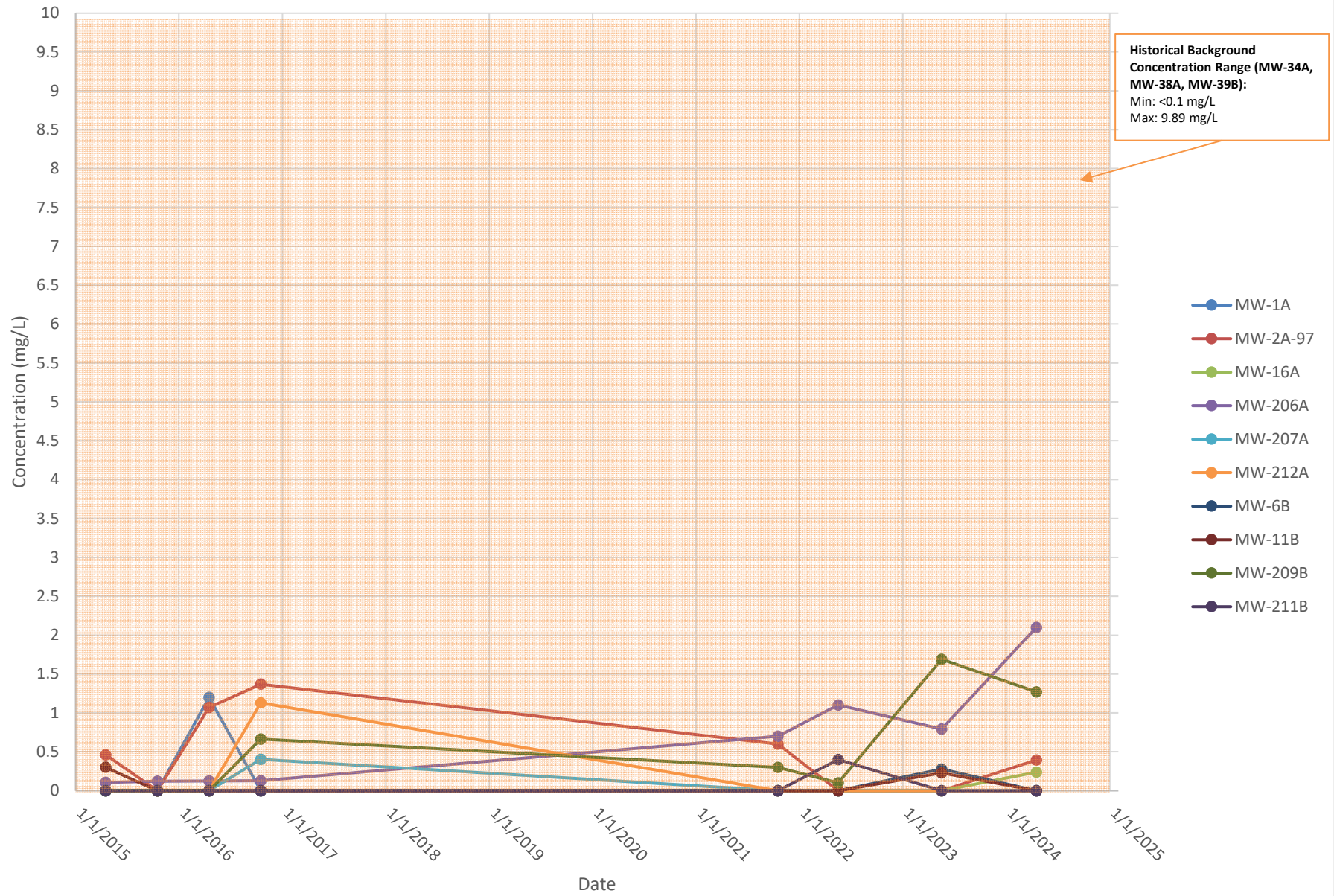
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Graph 1: Total Organic Carbon



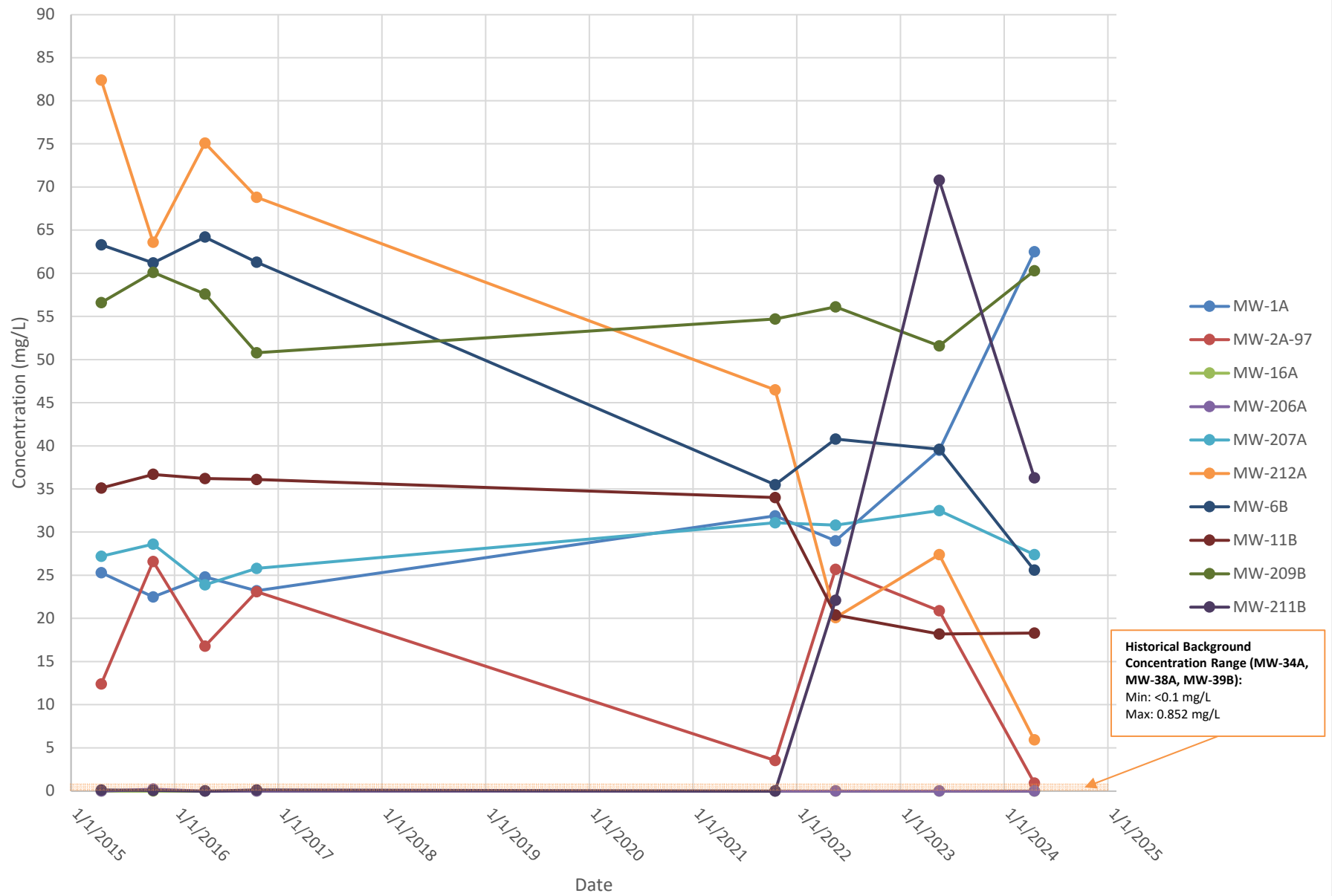
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Graph 2: Nitrate as Nitrogen



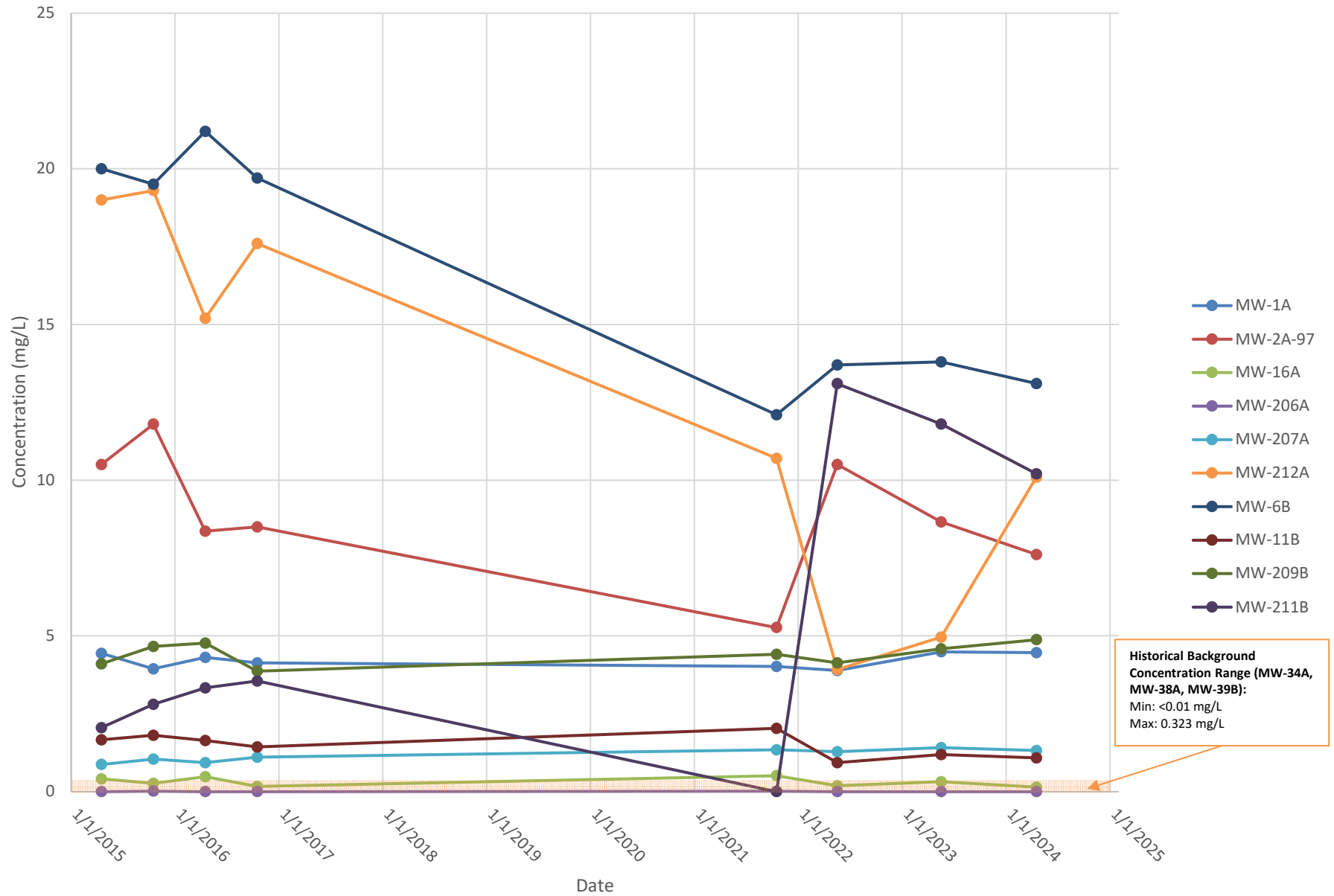
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Graph 3: Iron (Total)



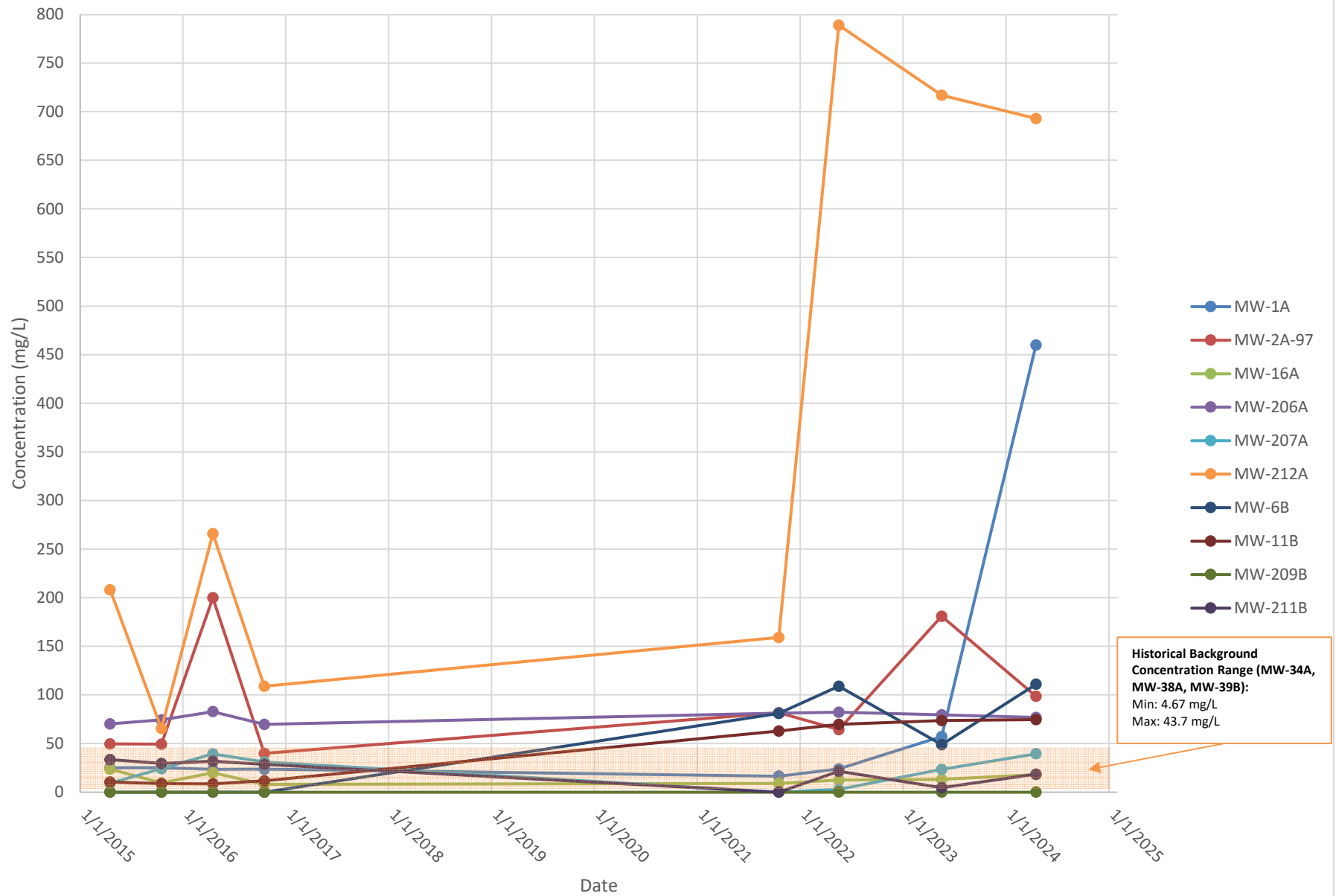
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Graph 4: Manganese (Total)

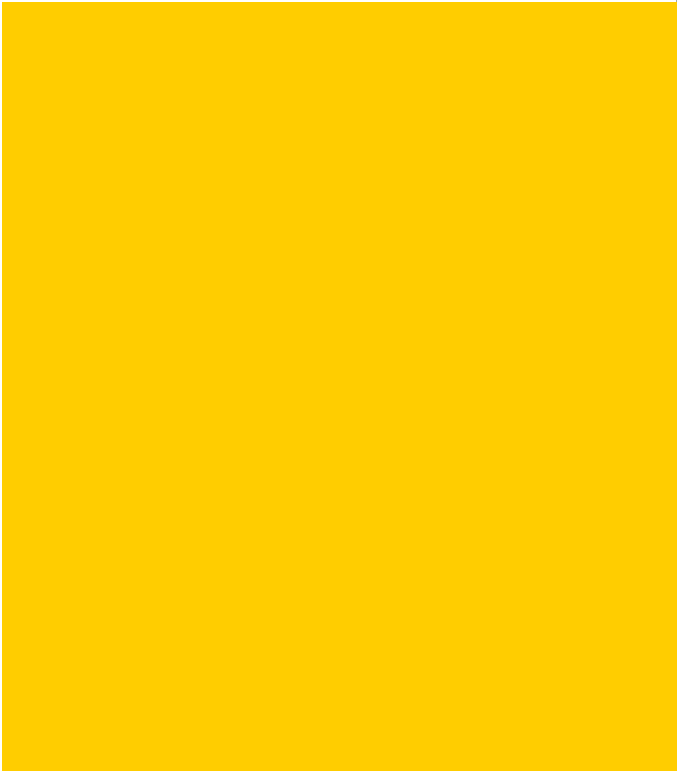


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Graph 5: Sulfate



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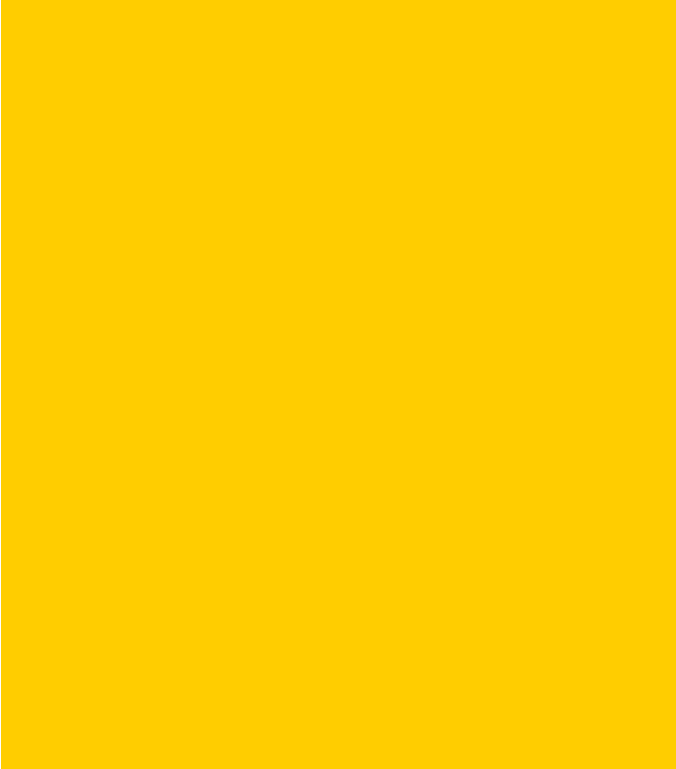
Appendix A

2024 Spring Sampling
Notification (IDNR Doc #
110314)

* Refer to the IDNR document retrieval system.



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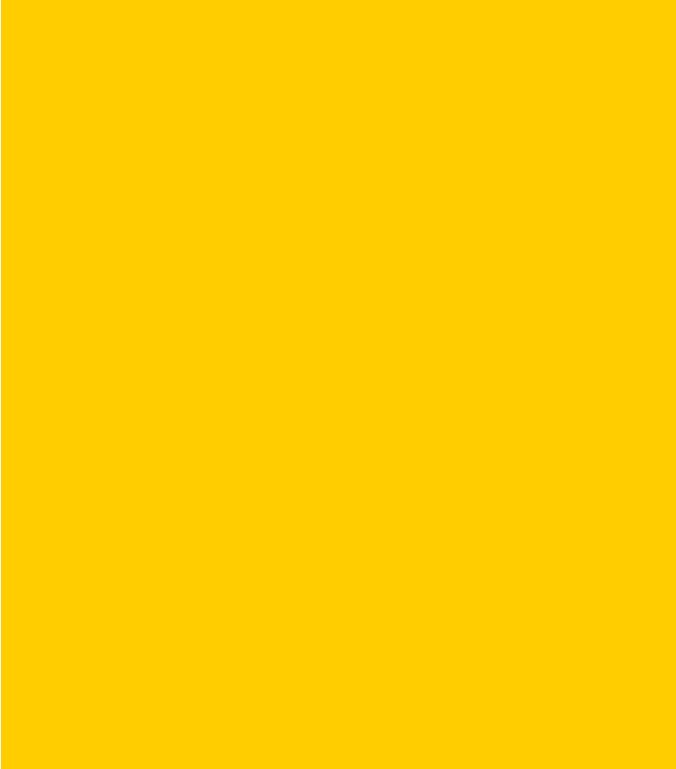


Appendix B

October 2024 Statistical
Analysis



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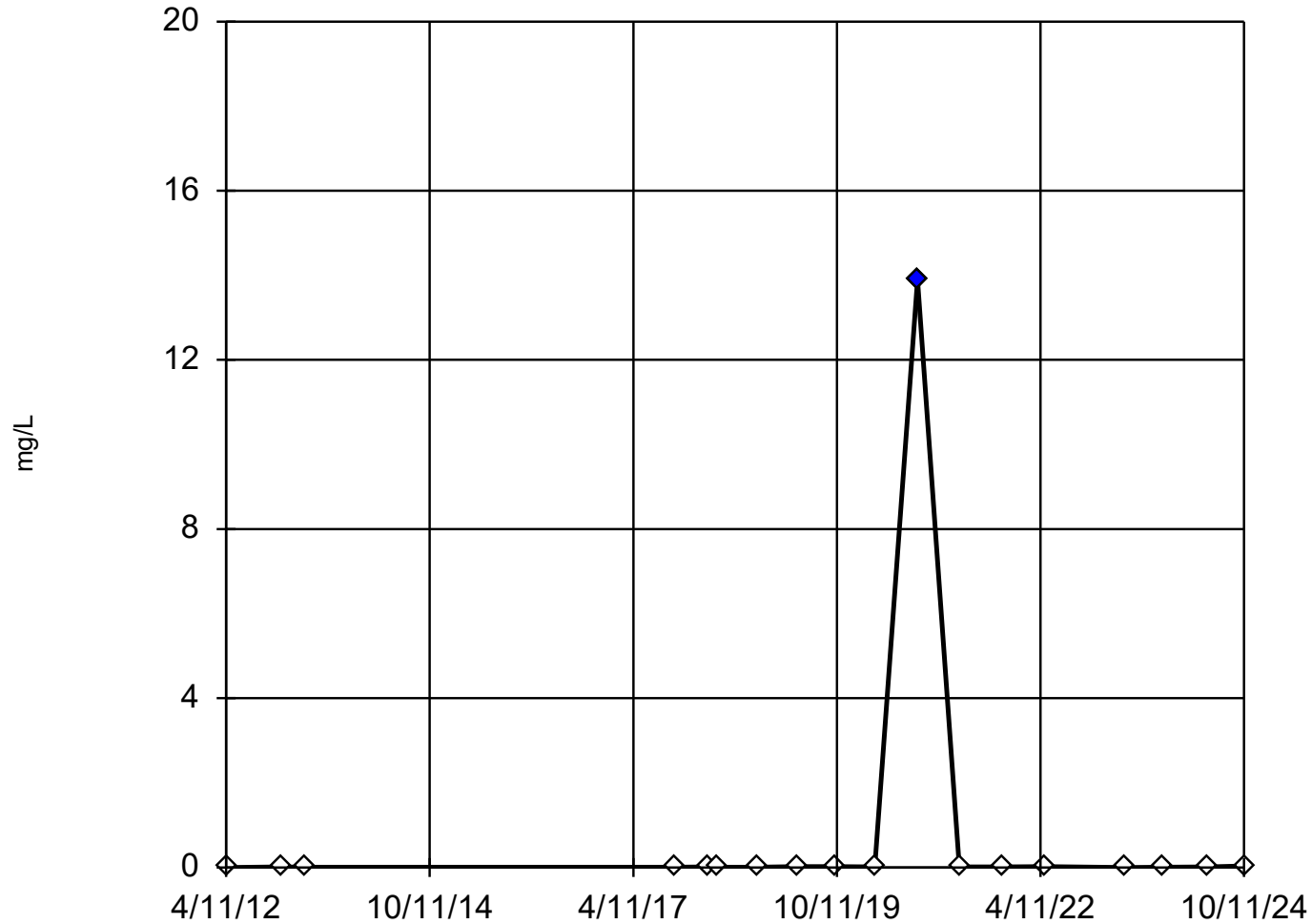
Statistical Analysis:
Underdrains



Groundwater Underdrain –
Outliers Analysis

Dixon's Outlier Test

WT-3



n = 18

Statistical outlier is drawn as solid.
1 value manually flagged as an outlier.
Testing for 1 high outlier.
Mean = 0.7836.
Std. Dev. = 3.273.
13.9 (o): c = 0.9987
tabl = 0.475.
Alpha = 0.05.

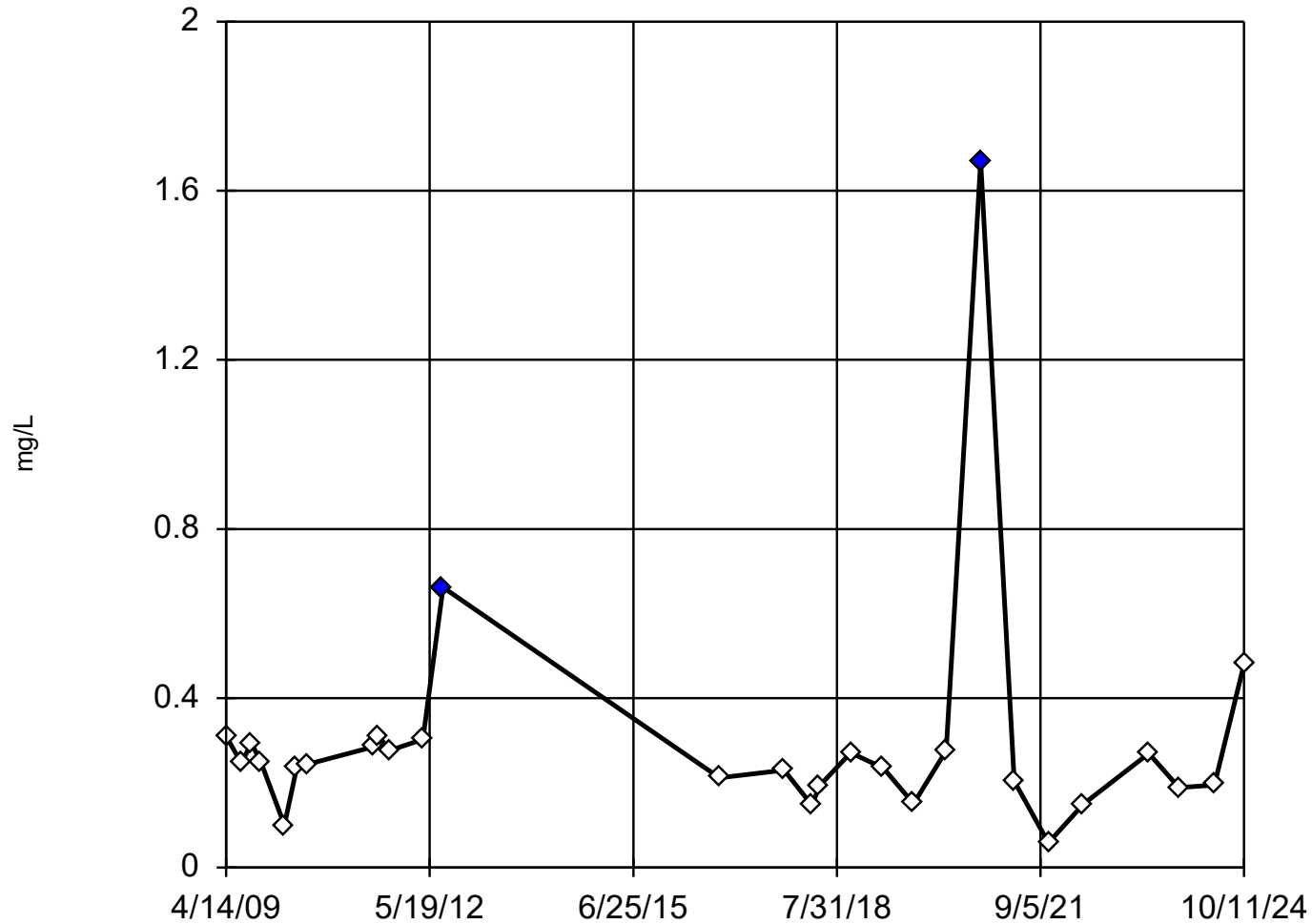
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9315
Critical = 0.91
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Arsenic Analysis Run 1/21/2025 11:43 AM View: 01_GU_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Rosner's Outlier Test

WT-1



n = 28

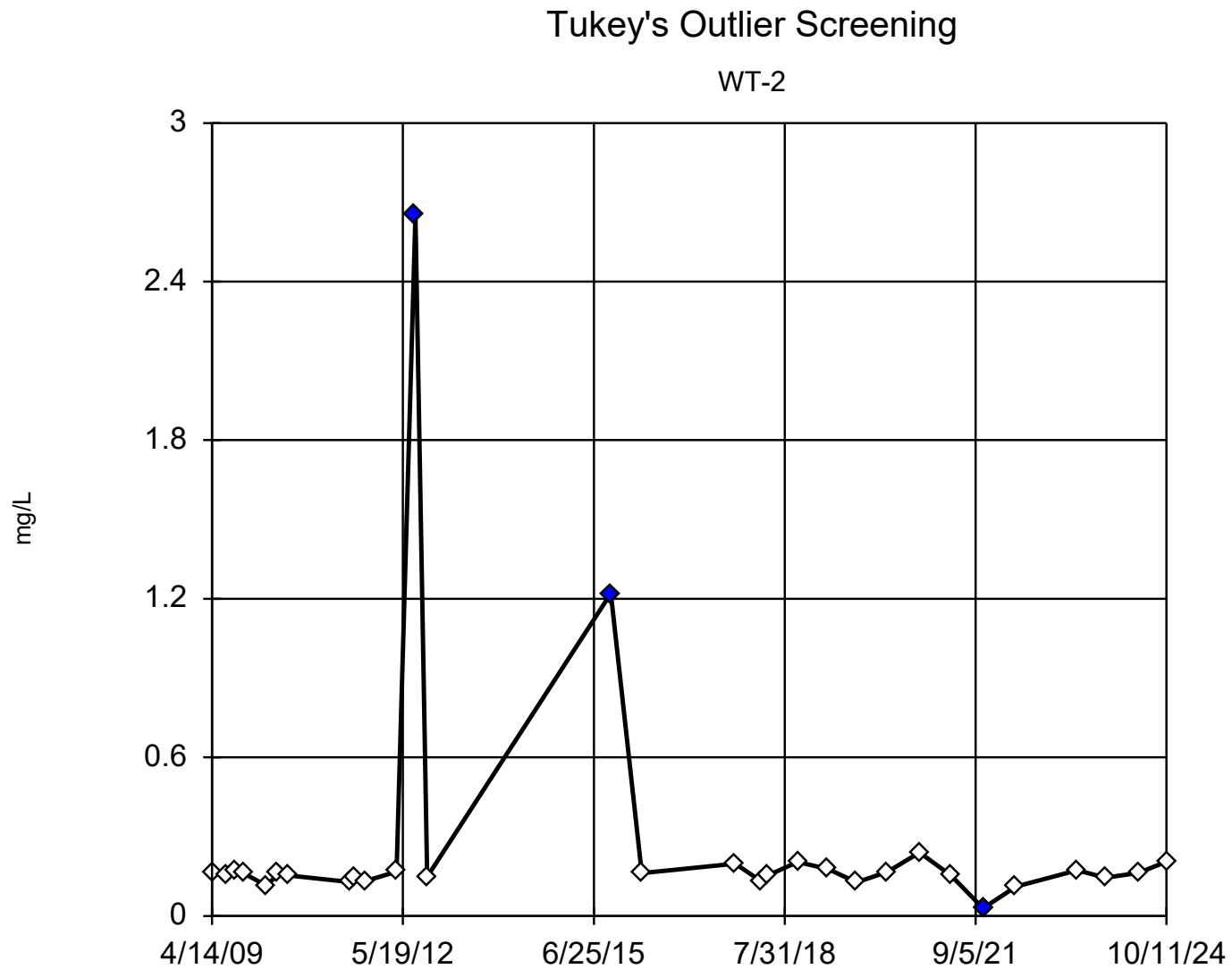
Statistical outliers are drawn as solid.
1 value manually flagged as an outlier.

k = 3
r = 3.585
Tabulated value = 2.974
Alpha = 0.01

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9409
Critical = 0.933 (after natural log transformation)
The distribution, after removal of suspect values, was found to be log-normal.

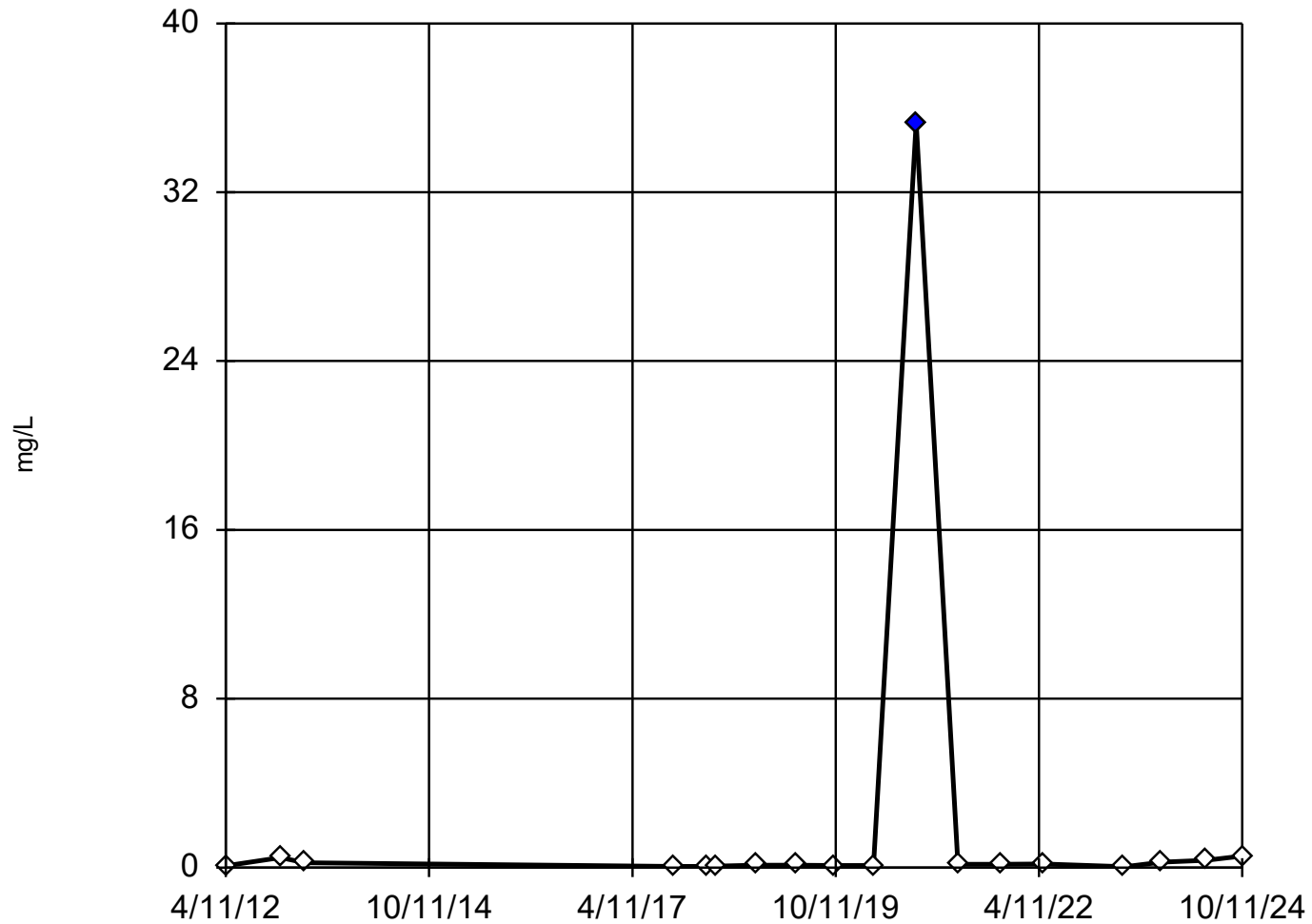
Constituent: Barium Analysis Run 1/21/2025 11:44 AM View: 01_GU_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill



Dixon's Outlier Test

WT-3



n = 18

Statistical outlier is drawn as solid.
1 value manually flagged as an outlier.
Testing for 1 high outlier.
Mean = 2.131.
Std. Dev. = 8.279.
35.3 (o): c = 0.6795
tab1 = 0.475.
Alpha = 0.05.

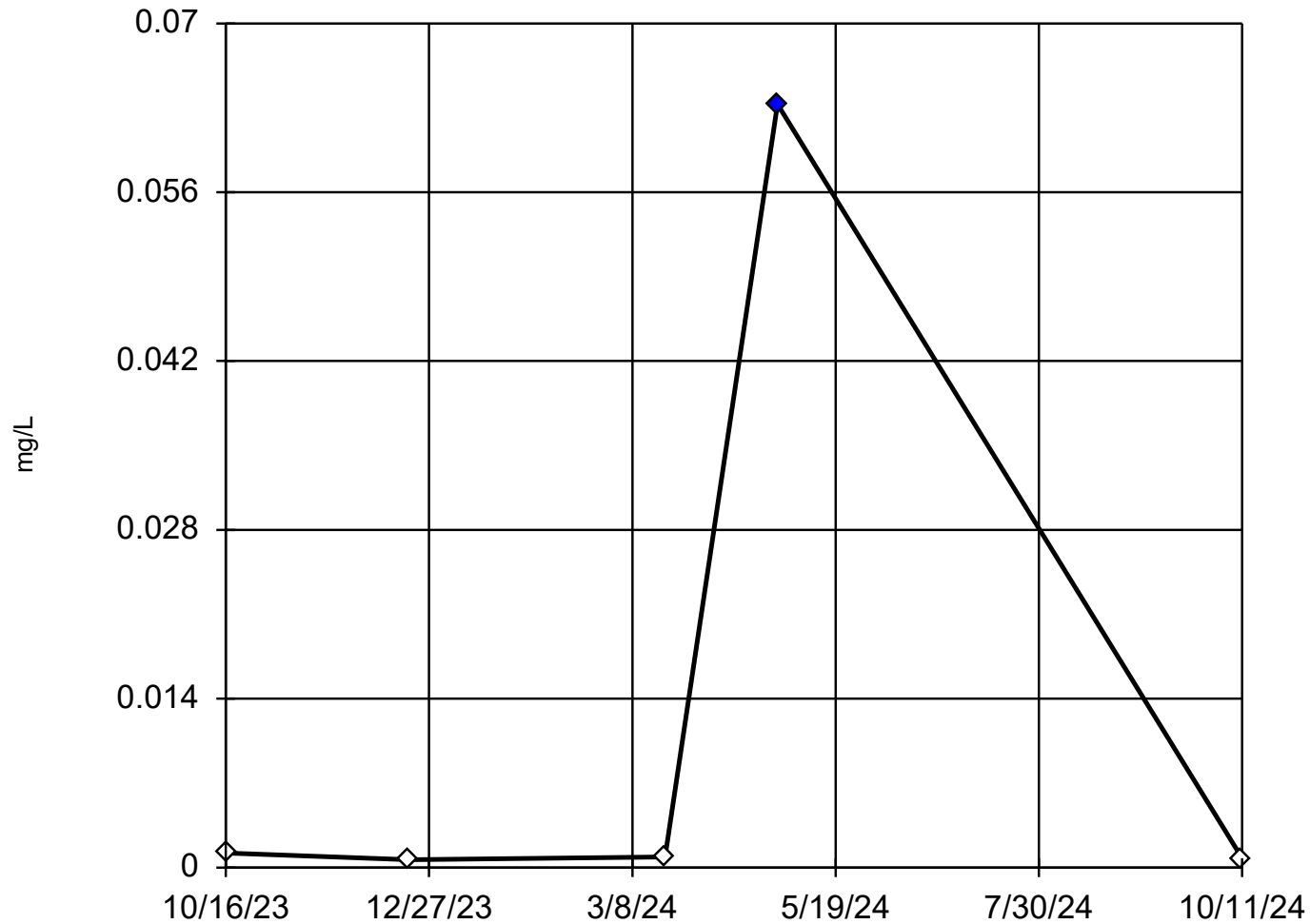
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9755
Critical = 0.91 (after natural log transformation)
The distribution, after removal of suspect value, was found to be log-normal.

Constituent: Barium Analysis Run 1/21/2025 11:44 AM View: 01_GU_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Dixon's Outlier Test

WT-OF



n = 5

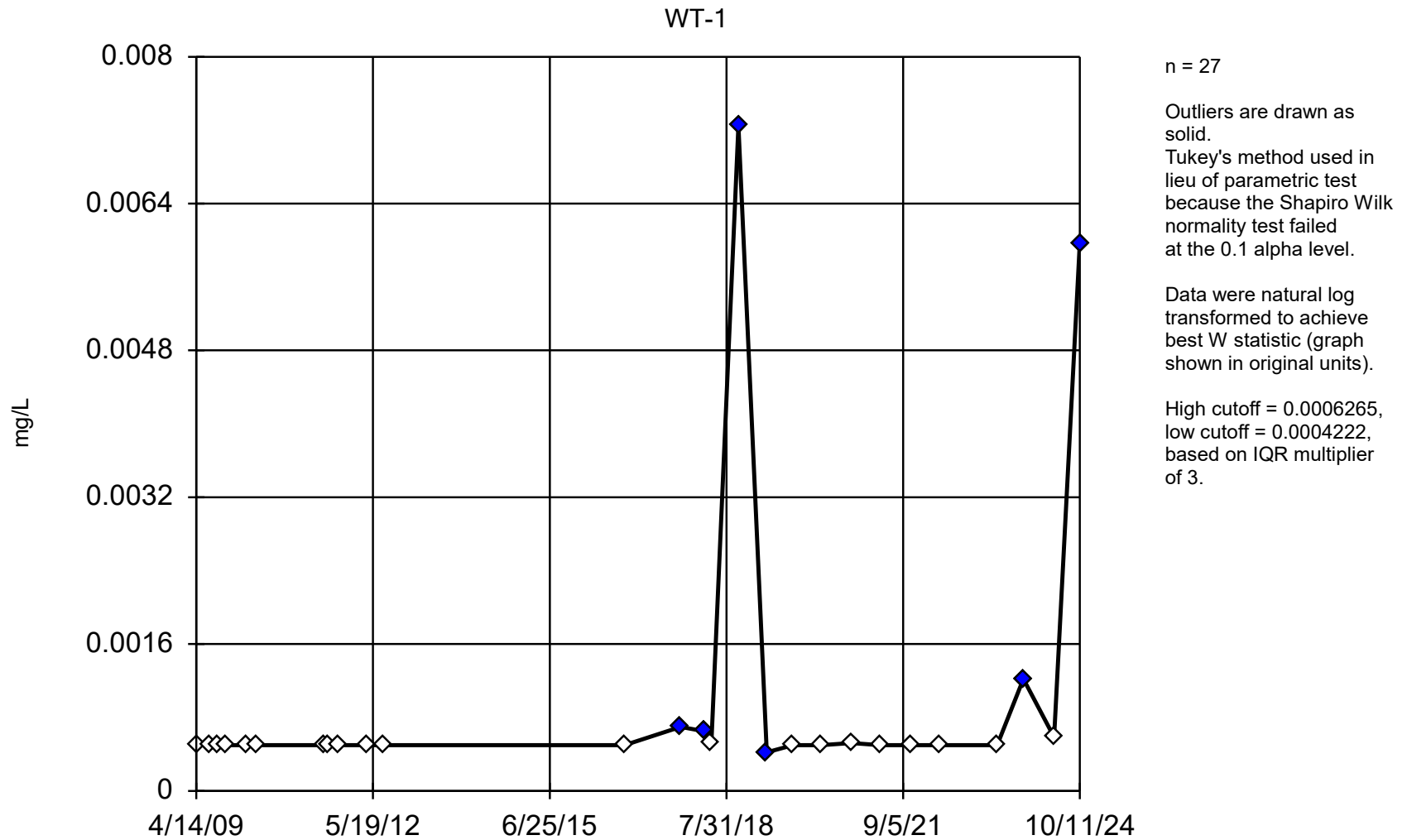
Statistical outlier is drawn as solid.
1 value manually flagged as an outlier.
Testing for 1 high outlier.
Mean = 0.01336.
Std. Dev. = 0.02792.
0.0633 (o): c = 0.9913
tab1 = 0.642.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9335
Critical = 0.792
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Cobalt Analysis Run 1/21/2025 11:44 AM View: 01_GU_Inorganics

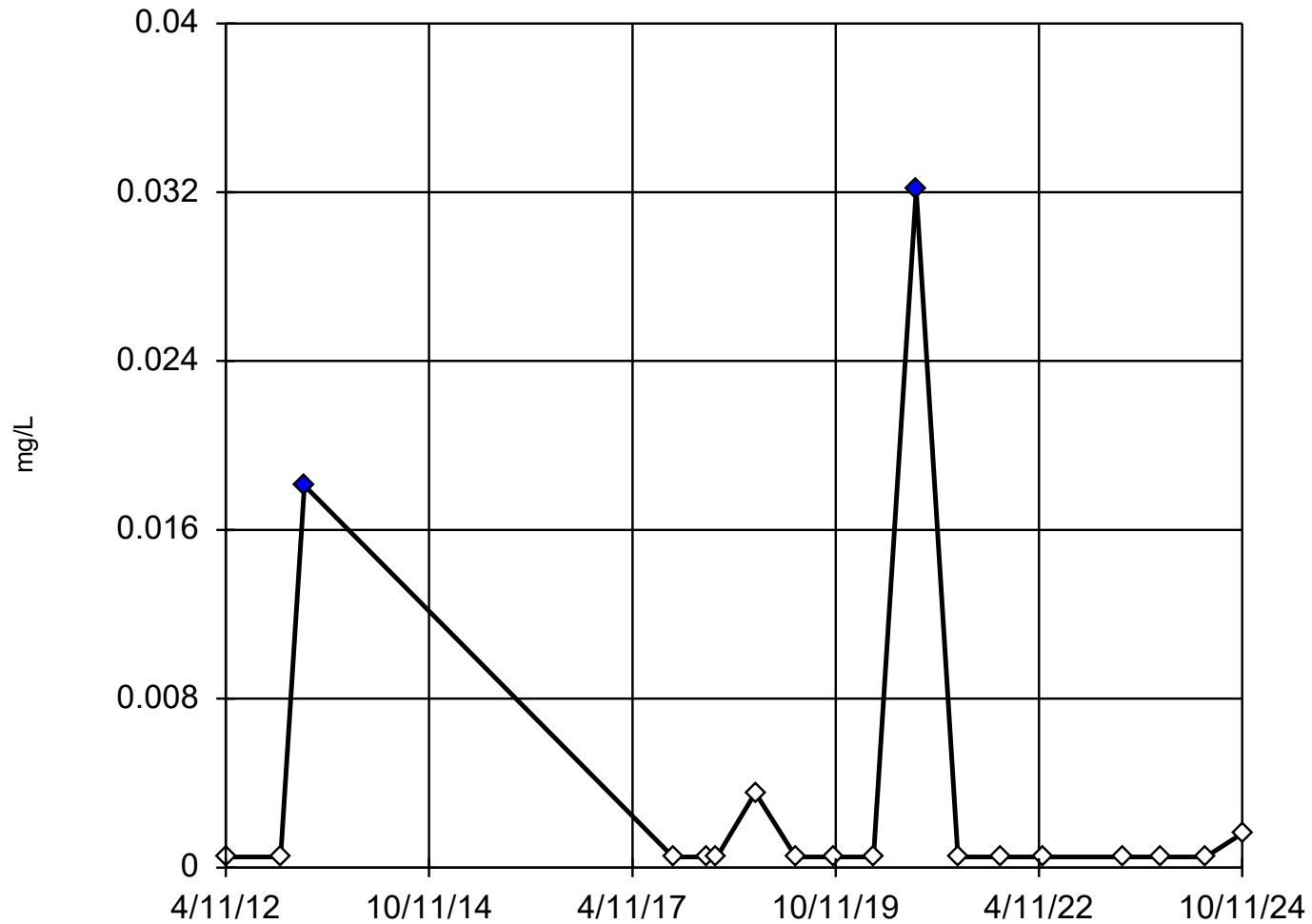
Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening



Tukey's Outlier Screening

WT-3



n = 18

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

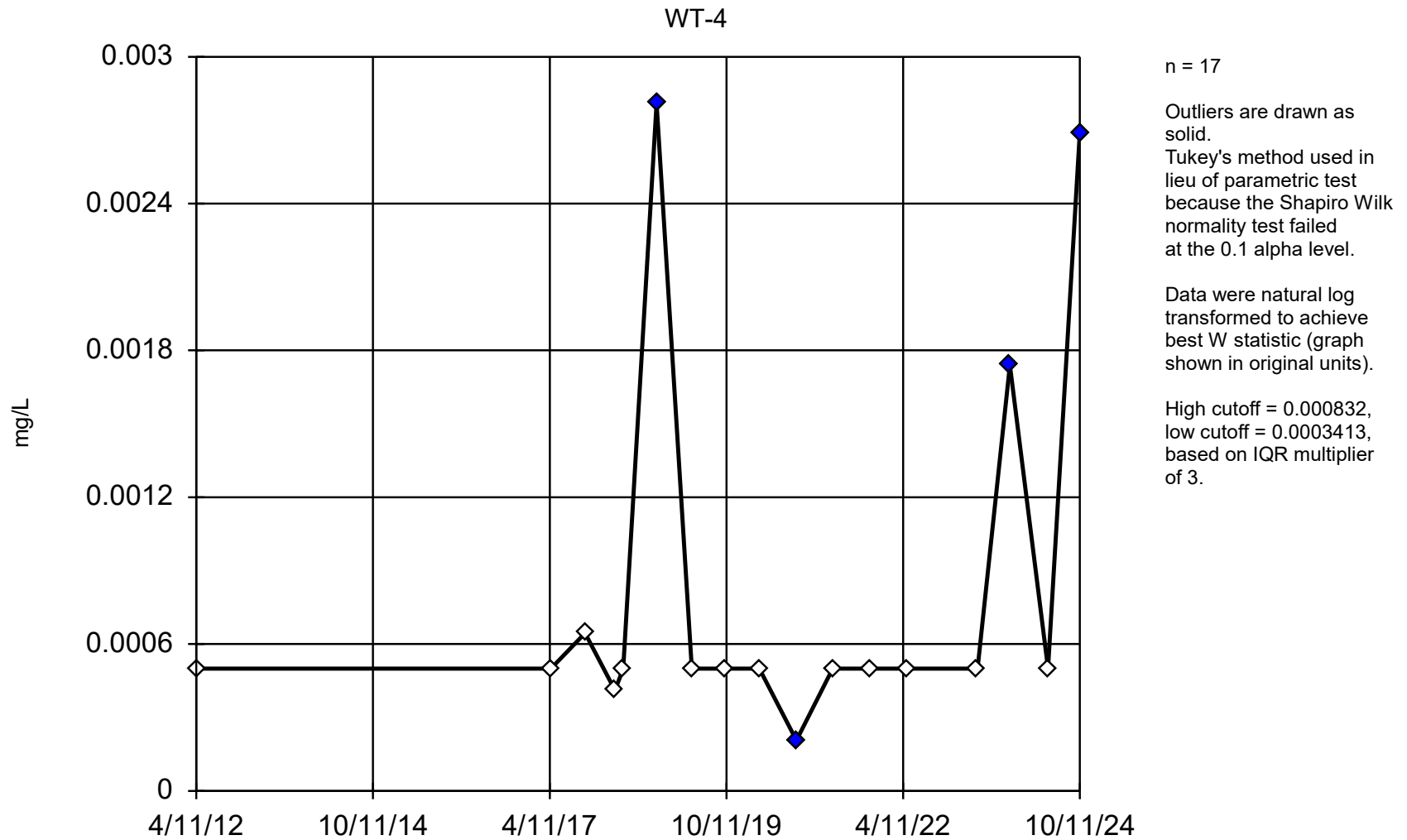
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.005249, low cutoff = 0.00008573, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 1/21/2025 11:44 AM View: 01_GU_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

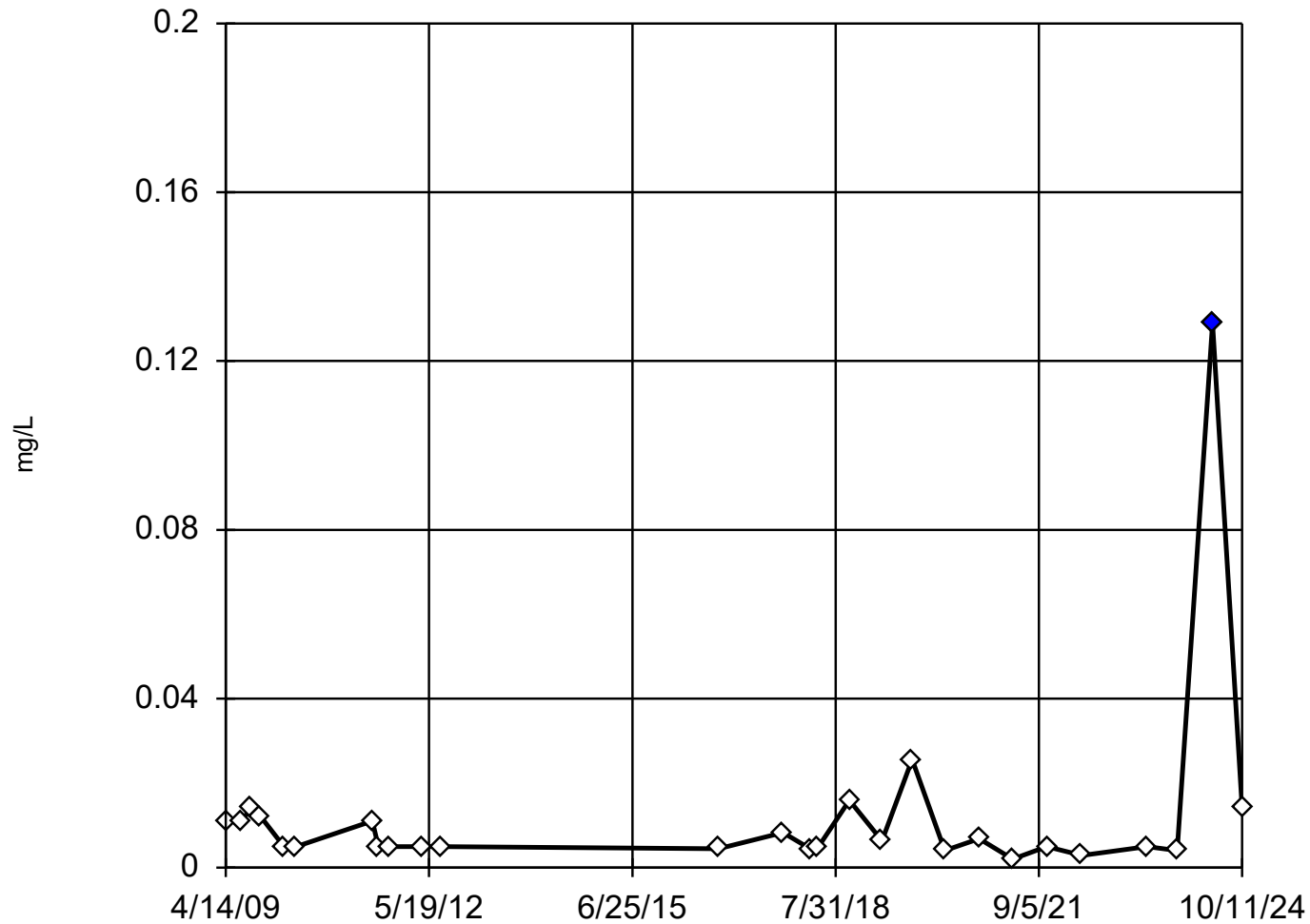


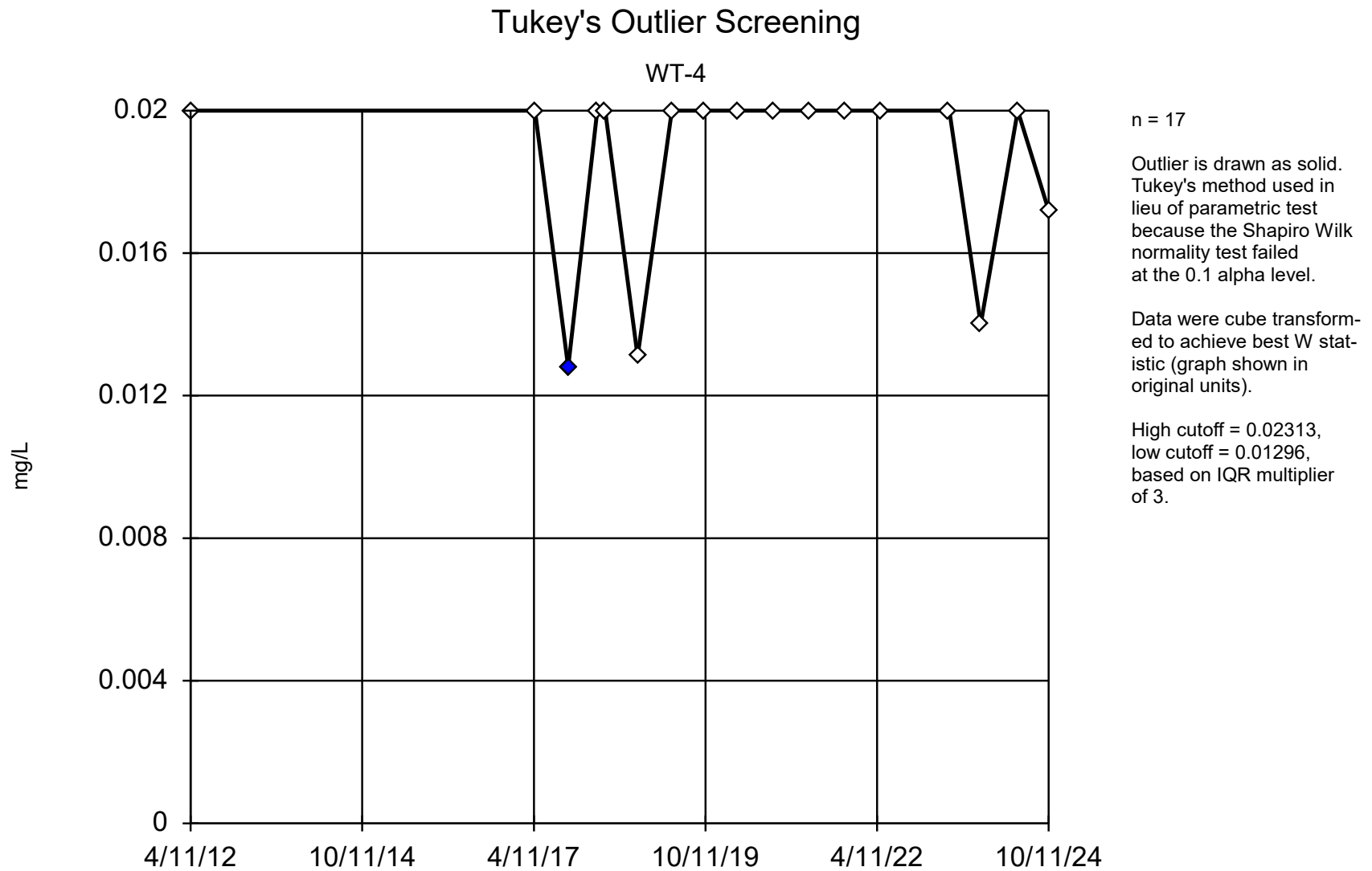
Constituent: Lead Analysis Run 1/21/2025 11:44 AM View: 01_GU_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

WT-1





Constituent: Zinc Analysis Run 1/21/2025 11:45 AM View: 01_GU_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 11:46 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.006	0	unknown	ShapiroWilk
Antimony (mg/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.0009718	0.0001465	unknown	ShapiroWilk
Antimony (mg/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0009794	0.0001109	unknown	ShapiroWilk
Antimony (mg/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	18	0.0009574	0.0001808	unknown	ShapiroWilk
Antimony (mg/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	17	0.0009569	0.0001778	unknown	ShapiroWilk
Antimony (mg/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	5	0.001	0	unknown	ShapiroWilk
Arsenic (mg/L)	ST-1	No	n/a	n/a	NP (nrm)	NaN	6	0.00135	0.0006442	unknown	ShapiroWilk
Arsenic (mg/L)	WT-1	No	n/a	n/a	NP (nrm)	NaN	28	0.0038	0.002878	unknown	ShapiroWilk
Arsenic (mg/L)	WT-2	No	n/a	n/a	NP (nrm)	NaN	30	0.01029	0.01603	unknown	ShapiroWilk
Arsenic (mg/L)	WT-3	Yes	13.9	10/7/2020	Dixon`s	0.05	18	0.7836	3.273	normal	ShapiroWilk
Arsenic (mg/L)	WT-4	No	n/a	n/a	NP (nrm)	NaN	17	0.001849	0.000513	unknown	ShapiroWilk
Arsenic (mg/L)	WT-OF	No	n/a	n/a	EPA 1989	0.05	5	0.001452	0.001265	ln(x)	ShapiroWilk
Barium (mg/L)	ST-1	No	n/a	n/a	EPA 1989	0.05	6	0.1412	0.02809	normal	ShapiroWilk
Barium (mg/L)	WT-1	Yes	1.67,0.662	10/7/2020,8/1/2012	Rosner`s	0.01	28	0.3015	0.2909	ln(x)	ShapiroWilk
Barium (mg/L)	WT-2	Yes	2.65,1.22,0.0286	8/1/2012,10/5/2015,10/20/2021	NP (nrm)	NaN	30	0.2736	0.4904	unknown	ShapiroWilk
Barium (mg/L)	WT-3	Yes	35.3	10/7/2020	Dixon`s	0.05	18	2.131	8.279	ln(x)	ShapiroWilk
Barium (mg/L)	WT-4	No	n/a	n/a	NP (nrm)	NaN	17	0.05399	0.04761	unknown	ShapiroWilk
Barium (mg/L)	WT-OF	No	n/a	n/a	EPA 1989	0.05	5	0.1099	0.03135	ln(x)	ShapiroWilk
Beryllium (mg/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.001	0	unknown	ShapiroWilk
Beryllium (mg/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.00033	0	unknown	ShapiroWilk
Beryllium (mg/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0003448	0.00005548	unknown	ShapiroWilk
Beryllium (mg/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	18	0.0008139	0.001823	unknown	ShapiroWilk
Beryllium (mg/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	17	0.00033	0	unknown	ShapiroWilk
Beryllium (mg/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	5	0.00033	0	unknown	ShapiroWilk
Cadmium (mg/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.000192	0.00003109	unknown	ShapiroWilk
Cadmium (mg/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0001126	0.00004696	unknown	ShapiroWilk
Cadmium (mg/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	18	0.0002217	0.0003597	unknown	ShapiroWilk
Cadmium (mg/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	17	0.0001958	0.00002365	unknown	ShapiroWilk
Cadmium (mg/L)	WT-OF	No	n/a	n/a	NP (nrm)	NaN	5	0.00018	0.00004472	unknown	ShapiroWilk
Chromium (mg/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.02	0	unknown	ShapiroWilk
Chromium (mg/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.005409	0.002349	unknown	ShapiroWilk
Chromium (mg/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001717	0.002785	unknown	ShapiroWilk
Chromium (mg/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	18	0.007277	0.009391	unknown	ShapiroWilk
Chromium (mg/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	17	0.005105	0.0004121	unknown	ShapiroWilk
Chromium (mg/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0012	0	unknown	ShapiroWilk
Cobalt (mg/L)	ST-1	No	n/a	n/a	NP (nrm)	NaN	6	0.01136	0.009493	unknown	ShapiroWilk
Cobalt (mg/L)	WT-1	No	n/a	n/a	EPA 1989	0.05	28	0.01525	0.03826	ln(x)	ShapiroWilk
Cobalt (mg/L)	WT-2	No	n/a	n/a	EPA 1989	0.05	30	0.008586	0.01149	ln(x)	ShapiroWilk
Cobalt (mg/L)	WT-3	No	n/a	n/a	EPA 1989	0.05	18	0.009853	0.01763	ln(x)	ShapiroWilk
Cobalt (mg/L)	WT-4	No	n/a	n/a	EPA 1989	0.05	17	0.001058	0.001237	ln(x)	ShapiroWilk
Cobalt (mg/L)	WT-OF	Yes	0.0633	4/29/2024	Dixon`s	0.05	5	0.01336	0.02792	normal	ShapiroWilk
Copper (mg/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.02	0	unknown	ShapiroWilk
Copper (mg/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.005119	0.0014	unknown	ShapiroWilk
Copper (mg/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002124	0.001746	unknown	ShapiroWilk
Copper (mg/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	18	0.007581	0.01134	unknown	ShapiroWilk
Copper (mg/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	17	0.004912	0.0002679	unknown	ShapiroWilk
Copper (mg/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0018	0	unknown	ShapiroWilk
Lead (mg/L)	ST-1	No	n/a	n/a	NP (nrm)	NaN	6	0.003933	0.0001633	unknown	ShapiroWilk
Lead (mg/L)	WT-1	Yes	0.000698,0.00065,0.007...	10/11/2017,3/15/2018,10/16/...	NP (nrm)	NaN	27	0.0009942	0.001635	unknown	ShapiroWilk

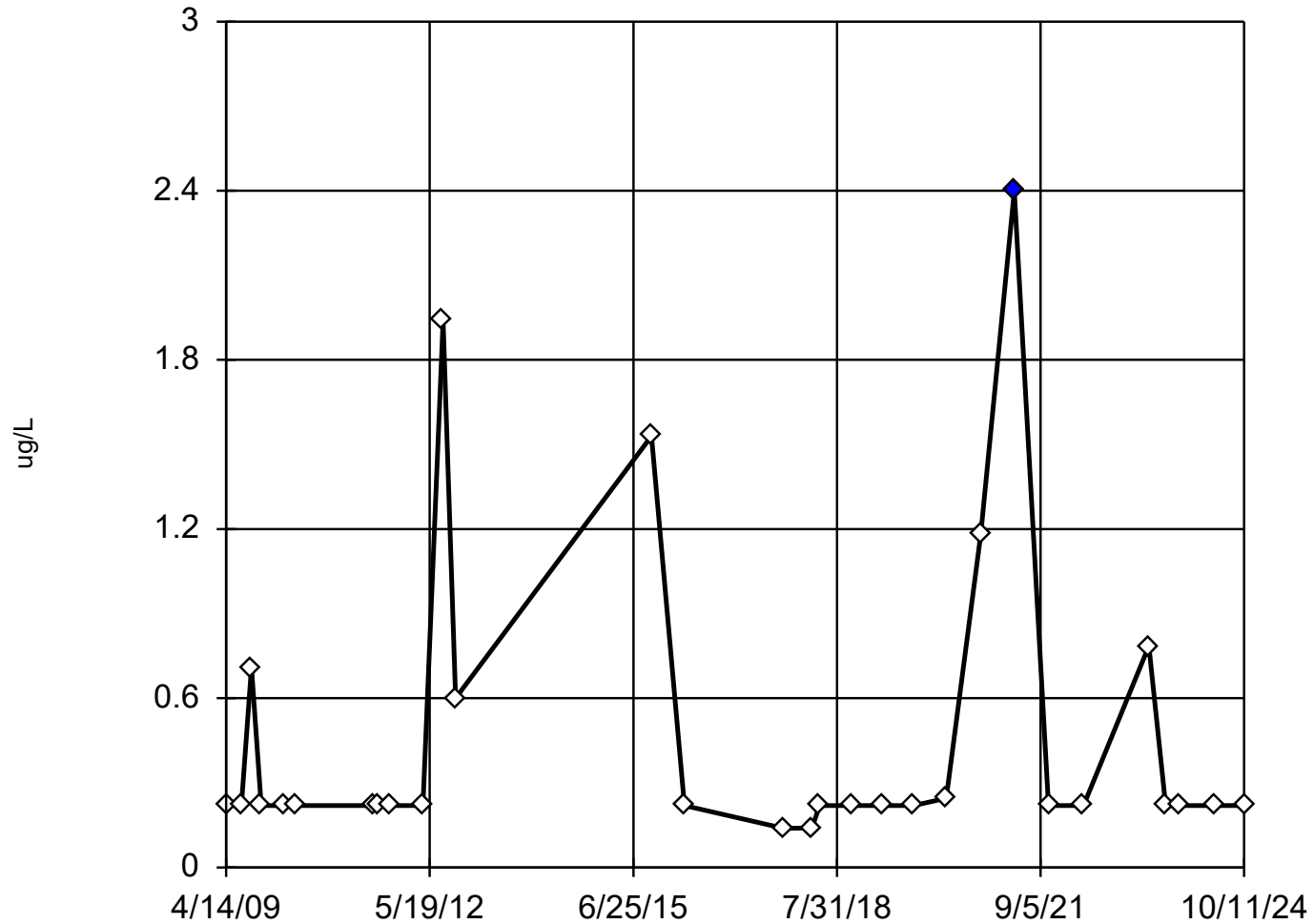
Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 11:46 AM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Lead (mg/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0007307	0.00131	unknown	ShapiroWilk
Lead (mg/L)	WT-3	Yes	0.0181,0.0321	3/30/2013,10/7/2020	NP (nrm)	NaN	18	0.003464	0.008263	unknown	ShapiroWilk
Lead (mg/L)	WT-4	Yes	0.00281,0.000206,0.001...	10/16/2018,10/7/2020,10/16/...	NP (nrm)	NaN	17	0.0008236	0.0007907	unknown	ShapiroWilk
Lead (mg/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	5	0.00026	0	unknown	ShapiroWilk
Nickel (mg/L)	ST-1	No	n/a	n/a	NP (nrm)	NaN	5	0.042	0.01789	unknown	ShapiroWilk
Nickel (mg/L)	WT-1	Yes	0.129	4/29/2024	NP (nrm)	NaN	27	0.01229	0.02389	unknown	ShapiroWilk
Nickel (mg/L)	WT-2	No	n/a	n/a	NP (nrm)	NaN	29	0.02564	0.02547	unknown	ShapiroWilk
Nickel (mg/L)	WT-3	No	n/a	n/a	EPA 1989	0.05	18	0.02443	0.05001	ln(x)	ShapiroWilk
Nickel (mg/L)	WT-4	No	n/a	n/a	EPA 1989	0.05	17	0.01092	0.008822	ln(x)	ShapiroWilk
Nickel (mg/L)	WT-OF	No	n/a	n/a	EPA 1989	0.05	5	0.01899	0.01726	normal	ShapiroWilk
Selenium (mg/L)	ST-1	No	n/a	n/a	NP (nrm)	NaN	6	0.00465	0.0008573	unknown	ShapiroWilk
Selenium (mg/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	28	0.001502	0.0003658	unknown	ShapiroWilk
Selenium (mg/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.001433	0.0001276	unknown	ShapiroWilk
Selenium (mg/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	18	0.003058	0.006998	unknown	ShapiroWilk
Selenium (mg/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	17	0.001596	0.0007669	unknown	ShapiroWilk
Selenium (mg/L)	WT-OF	No	n/a	n/a	NP (nrm)	NaN	5	0.00146	0.0001342	unknown	ShapiroWilk
Silver (mg/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.02	0	unknown	ShapiroWilk
Silver (mg/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.0005033	0.00001732	unknown	ShapiroWilk
Silver (mg/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	18	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	17	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0005	0	unknown	ShapiroWilk
Thallium (mg/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.002	0	unknown	ShapiroWilk
Thallium (mg/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.0005563	0.00007121	unknown	ShapiroWilk
Thallium (mg/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0006043	0.0003848	unknown	ShapiroWilk
Thallium (mg/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	18	0.00057	0	unknown	ShapiroWilk
Thallium (mg/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	17	0.00057	0	unknown	ShapiroWilk
Thallium (mg/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	5	0.00057	0	unknown	ShapiroWilk
Vanadium (mg/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.05	0	unknown	ShapiroWilk
Vanadium (mg/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.005846	0.004556	unknown	ShapiroWilk
Vanadium (mg/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	29	0.005259	0.003882	unknown	ShapiroWilk
Vanadium (mg/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	18	0.01238	0.02892	unknown	ShapiroWilk
Vanadium (mg/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	17	0.005769	0.002713	unknown	ShapiroWilk
Vanadium (mg/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0011	0	unknown	ShapiroWilk
Zinc (mg/L)	ST-1	No	n/a	n/a	NP (nrm)	NaN	6	0.0809	0.03089	unknown	ShapiroWilk
Zinc (mg/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	28	0.02097	0.004496	unknown	ShapiroWilk
Zinc (mg/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	29	0.01331	0.01398	unknown	ShapiroWilk
Zinc (mg/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	18	0.1015	0.2174	unknown	ShapiroWilk
Zinc (mg/L)	WT-4	Yes	0.0128	10/11/2017	NP (nrm)	NaN	17	0.01865	0.002651	unknown	ShapiroWilk
Zinc (mg/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0097	0	unknown	ShapiroWilk

Tukey's Outlier Screening

WT-2



n = 30

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

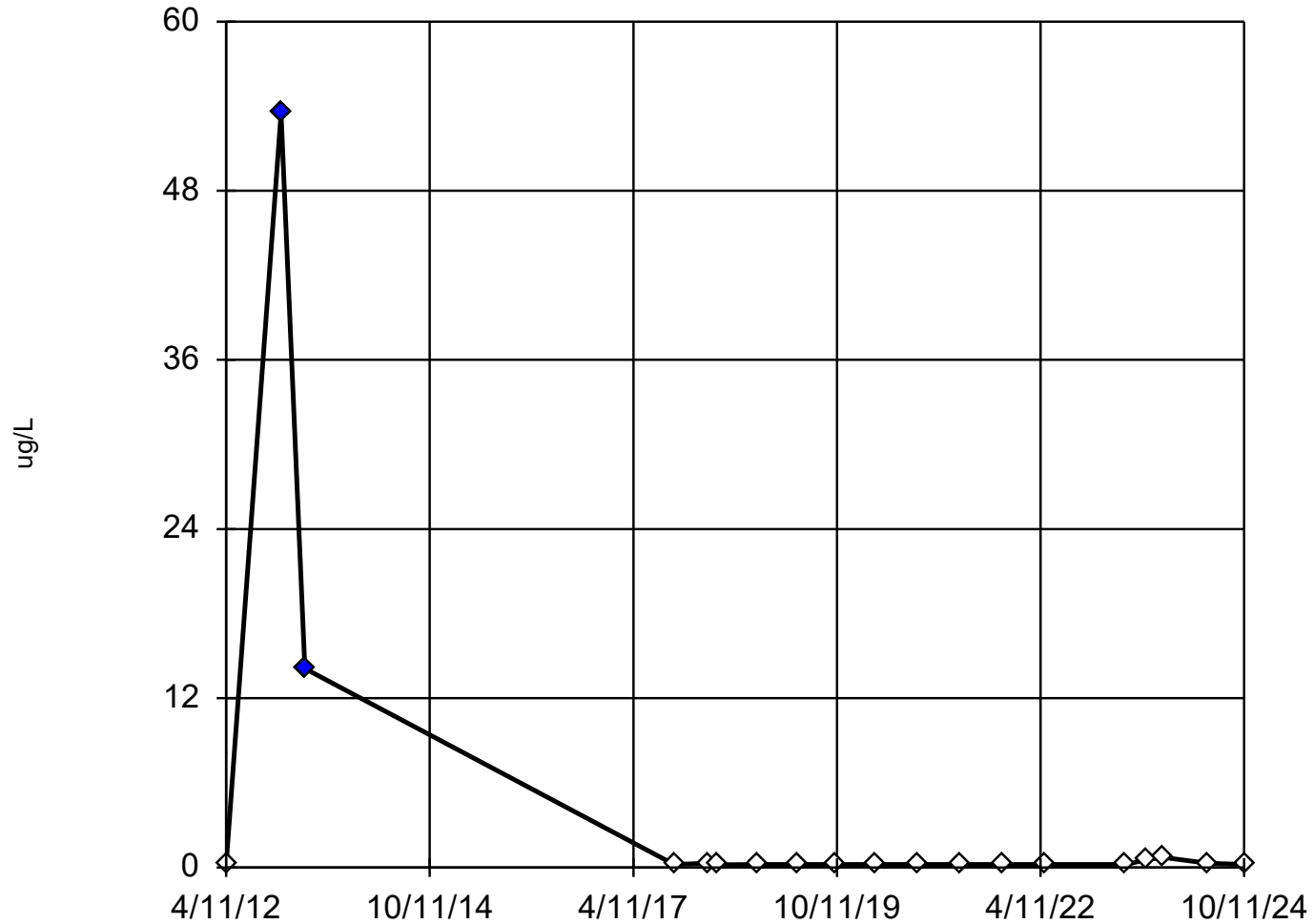
High cutoff = 2.029, low cutoff = 0.04156, based on IQR multiplier of 3.

Constituent: Benzene Analysis Run 1/21/2025 4:42 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

WT-3



n = 19

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.8234,
low cutoff = 0.08176,
based on IQR multiplier of 3.

Constituent: Benzene Analysis Run 1/21/2025 4:42 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 4:45 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
1,1,1,2-Tetrachloroethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
1,1,1,2-Tetrachloroethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.38	0	unknown	ShapiroWilk
1,1,1,2-Tetrachloroethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.38	0	unknown	ShapiroWilk
1,1,1,2-Tetrachloroethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.38	0	unknown	ShapiroWilk
1,1,1,2-Tetrachloroethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.38	0	unknown	ShapiroWilk
1,1,1,2-Tetrachloroethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.38	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.19	0	unknown	ShapiroWilk
1,1,2,2-Tetrachloroethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
1,1,2,2-Tetrachloroethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.47	0	unknown	ShapiroWilk
1,1,2,2-Tetrachloroethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.47	0	unknown	ShapiroWilk
1,1,2,2-Tetrachloroethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.47	0	unknown	ShapiroWilk
1,1,2,2-Tetrachloroethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.47	0	unknown	ShapiroWilk
1,1,2,2-Tetrachloroethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.47	0	unknown	ShapiroWilk
1,1,2-Trichloroethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
1,1,2-Trichloroethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.45	0	unknown	ShapiroWilk
1,1,2-Trichloroethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.4517	0.009129	unknown	ShapiroWilk
1,1,2-Trichloroethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.45	0	unknown	ShapiroWilk
1,1,2-Trichloroethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.45	0	unknown	ShapiroWilk
1,1,2-Trichloroethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.45	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.2581	0.08448	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	2	0	unknown	ShapiroWilk
1,1-Dichloroethene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.56	0	unknown	ShapiroWilk
1,1-Dichloroethene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.56	0	unknown	ShapiroWilk
1,1-Dichloroethene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.56	0	unknown	ShapiroWilk
1,1-Dichloroethene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.56	0	unknown	ShapiroWilk
1,1-Dichloroethene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.56	0	unknown	ShapiroWilk
1,2,3-Trichloropropane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
1,2,3-Trichloropropane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.59	0	unknown	ShapiroWilk
1,2,3-Trichloropropane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.59	0	unknown	ShapiroWilk
1,2,3-Trichloropropane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.59	0	unknown	ShapiroWilk
1,2,3-Trichloropropane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.59	0	unknown	ShapiroWilk
1,2,3-Trichloropropane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.59	0	unknown	ShapiroWilk
1,2-Dibromo-3-Chloropropane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	10	0	unknown	ShapiroWilk
1,2-Dibromo-3-Chloropropane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	1.2	0	unknown	ShapiroWilk
1,2-Dibromo-3-Chloropropane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	1.2	0	unknown	ShapiroWilk
1,2-Dibromo-3-Chloropropane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	1.2	0	unknown	ShapiroWilk
1,2-Dibromo-3-Chloropropane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	1.2	0	unknown	ShapiroWilk
1,2-Dibromo-3-Chloropropane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	1.2	0	unknown	ShapiroWilk
1,2-Dibromoethane [EDB] (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	10	0	unknown	ShapiroWilk
1,2-Dibromoethane [EDB] (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.34	0	unknown	ShapiroWilk

Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 4:45 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
1,2-Dibromoethane [EDB] (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.34	0	unknown	ShapiroWilk
1,2-Dibromoethane [EDB] (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.34	0	unknown	ShapiroWilk
1,2-Dibromoethane [EDB] (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.34	0	unknown	ShapiroWilk
1,2-Dibromoethane [EDB] (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.34	0	unknown	ShapiroWilk
1,2-Dichlorobenzene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
1,2-Dichlorobenzene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.37	0	unknown	ShapiroWilk
1,2-Dichlorobenzene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.37	0	unknown	ShapiroWilk
1,2-Dichlorobenzene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.37	0	unknown	ShapiroWilk
1,2-Dichlorobenzene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.37	0	unknown	ShapiroWilk
1,2-Dichlorobenzene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.37	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.39	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.27	0	unknown	ShapiroWilk
1,4-Dichlorobenzene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
1,4-Dichlorobenzene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.23	0	unknown	ShapiroWilk
1,4-Dichlorobenzene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.23	0	unknown	ShapiroWilk
1,4-Dichlorobenzene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.23	0	unknown	ShapiroWilk
1,4-Dichlorobenzene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.23	0	unknown	ShapiroWilk
1,4-Dichlorobenzene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.23	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	3.233	5.889	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	2.377	1.515	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	WT-OF	No	n/a	n/a	NP (nrm)	NaN	6	3.248	2.813	unknown	ShapiroWilk
2-Hexanone (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	10	0	unknown	ShapiroWilk
2-Hexanone (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	2	0	unknown	ShapiroWilk
2-Hexanone (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	2	0	unknown	ShapiroWilk
2-Hexanone (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	2	0	unknown	ShapiroWilk
2-Hexanone (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	2	0	unknown	ShapiroWilk
2-Hexanone (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	2	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	2.144	0.3693	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	4.38	12.68	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	3.147	4.738	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	2.044	0.2357	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	2.1	0	unknown	ShapiroWilk
Acetone (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	10	0	unknown	ShapiroWilk
Acetone (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	7.608	17.55	unknown	ShapiroWilk
Acetone (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	5.54	8.433	unknown	ShapiroWilk
Acetone (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	3.472	1.482	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Acetone (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	3.137	0.514	unknown	ShapiroWilk
Acetone (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	7	4.6	3.969	unknown	ShapiroWilk
Acrylonitrile (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	10	0	unknown	ShapiroWilk
Acrylonitrile (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	2.2	0	unknown	ShapiroWilk
Acrylonitrile (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	2.2	0	unknown	ShapiroWilk
Acrylonitrile (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	2.2	0	unknown	ShapiroWilk
Acrylonitrile (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	2.2	0	unknown	ShapiroWilk
Acrylonitrile (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	2.2	0	unknown	ShapiroWilk
Benzene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.236	0.08078	unknown	ShapiroWilk
Benzene (ug/L)	WT-2	Yes	2.4	4/13/2021	NP (nrm)	NaN	30	0.469	0.5634	unknown	ShapiroWilk
Benzene (ug/L)	WT-3	Yes	53.5,14.1	12/13/2012,3/30/2013	NP (nrm)	NaN	19	3.805	12.44	unknown	ShapiroWilk
Benzene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.2157	0.01815	unknown	ShapiroWilk
Benzene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.22	0	unknown	ShapiroWilk
Bromochloromethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	5	0	unknown	ShapiroWilk
Bromochloromethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.54	0	unknown	ShapiroWilk
Bromochloromethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.54	0	unknown	ShapiroWilk
Bromochloromethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.54	0	unknown	ShapiroWilk
Bromochloromethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.54	0	unknown	ShapiroWilk
Bromochloromethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.54	0	unknown	ShapiroWilk
Bromodichloromethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
Bromodichloromethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.39	0	unknown	ShapiroWilk
Bromodichloromethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.39	0	unknown	ShapiroWilk
Bromodichloromethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.4726	0.3602	unknown	ShapiroWilk
Bromodichloromethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.4806	0.3842	unknown	ShapiroWilk
Bromodichloromethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.39	0	unknown	ShapiroWilk
Bromoform (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	5	0	unknown	ShapiroWilk
Bromoform (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.78	0	unknown	ShapiroWilk
Bromoform (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.78	0	unknown	ShapiroWilk
Bromoform (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.78	0	unknown	ShapiroWilk
Bromoform (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.78	0	unknown	ShapiroWilk
Bromoform (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.78	0	unknown	ShapiroWilk
Bromomethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	4	0	unknown	ShapiroWilk
Bromomethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	1.1	0	unknown	ShapiroWilk
Bromomethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	1.074	0.1404	unknown	ShapiroWilk
Bromomethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	1.058	0.1817	unknown	ShapiroWilk
Bromomethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	1.055	0.1909	unknown	ShapiroWilk
Bromomethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	1.1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.7542	1.326	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.45	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	1.057	1.776	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.65	0	unknown	ShapiroWilk

Outlier Analysis

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Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Chlorobenzene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.4	0	unknown	ShapiroWilk
Chlorodibromomethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	5	0	unknown	ShapiroWilk
Chlorodibromomethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.75	0	unknown	ShapiroWilk
Chlorodibromomethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.75	0	unknown	ShapiroWilk
Chlorodibromomethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.7832	0.1445	unknown	ShapiroWilk
Chlorodibromomethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.75	0	unknown	ShapiroWilk
Chlorodibromomethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.75	0	unknown	ShapiroWilk
Chloroethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.79	0	unknown	ShapiroWilk
Chloroform (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
Chloroform (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	1.3	0	unknown	ShapiroWilk
Chloroform (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	1.469	0.9275	unknown	ShapiroWilk
Chloroform (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	1.587	1.25	unknown	ShapiroWilk
Chloroform (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	1.682	1.619	unknown	ShapiroWilk
Chloroform (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	1.3	0	unknown	ShapiroWilk
Chloromethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	3	0	unknown	ShapiroWilk
Chloromethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.6122	0.01223	unknown	ShapiroWilk
Chloromethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.61	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.2074	0.01643	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.21	0	unknown	ShapiroWilk
cis-1,3-Dichloropropene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	5	0	unknown	ShapiroWilk
cis-1,3-Dichloropropene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.25	0	unknown	ShapiroWilk
cis-1,3-Dichloropropene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.25	0	unknown	ShapiroWilk
cis-1,3-Dichloropropene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.25	0	unknown	ShapiroWilk
cis-1,3-Dichloropropene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.25	0	unknown	ShapiroWilk
cis-1,3-Dichloropropene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.25	0	unknown	ShapiroWilk
Dibromomethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
Dibromomethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.33	0	unknown	ShapiroWilk
Dibromomethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.33	0	unknown	ShapiroWilk
Dibromomethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.33	0	unknown	ShapiroWilk
Dibromomethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.33	0	unknown	ShapiroWilk
Dibromomethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.33	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.31	0	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Ethylbenzene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.823	2.81	unknown	ShapiroWilk
Ethylbenzene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	9.267	31.69	unknown	ShapiroWilk
Ethylbenzene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.31	0	unknown	ShapiroWilk
Iodomethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	10	0	unknown	ShapiroWilk
Iodomethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	7	0	unknown	ShapiroWilk
Iodomethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	7	0	unknown	ShapiroWilk
Iodomethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	7	0	unknown	ShapiroWilk
Iodomethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	7	0	unknown	ShapiroWilk
Iodomethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	7	0	unknown	ShapiroWilk
Methylene Chloride (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	5	0	unknown	ShapiroWilk
Methylene Chloride (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	1.549	0.4349	unknown	ShapiroWilk
Methylene Chloride (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	2.493	4.345	unknown	ShapiroWilk
Methylene Chloride (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	1.623	0.3347	unknown	ShapiroWilk
Methylene Chloride (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	1.62	0.3378	unknown	ShapiroWilk
Methylene Chloride (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	1.7	0	unknown	ShapiroWilk
Styrene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
Styrene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.37	0	unknown	ShapiroWilk
Styrene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.37	0	unknown	ShapiroWilk
Styrene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	2.465	7.967	unknown	ShapiroWilk
Styrene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.37	0	unknown	ShapiroWilk
Styrene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.37	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.48	0	unknown	ShapiroWilk
Toluene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
Toluene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	1.353	2.773	unknown	ShapiroWilk
Toluene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	1.2	3.879	unknown	ShapiroWilk
Toluene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	16.25	55.26	unknown	ShapiroWilk
Toluene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.43	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.27	0	unknown	ShapiroWilk
trans-1,3-Dichloropropene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	5	0	unknown	ShapiroWilk
trans-1,3-Dichloropropene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.5541	0.03079	unknown	ShapiroWilk
trans-1,3-Dichloropropene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.56	0	unknown	ShapiroWilk
trans-1,3-Dichloropropene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.56	0	unknown	ShapiroWilk
trans-1,3-Dichloropropene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.56	0	unknown	ShapiroWilk
trans-1,3-Dichloropropene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.56	0	unknown	ShapiroWilk
trans-1,4-Dichloro-2-Butene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	10	0	unknown	ShapiroWilk
trans-1,4-Dichloro-2-Butene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	1.1	0	unknown	ShapiroWilk
trans-1,4-Dichloro-2-Butene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	1.1	0	unknown	ShapiroWilk
trans-1,4-Dichloro-2-Butene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	1.1	0	unknown	ShapiroWilk

Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 4:45 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
trans-1,4-Dichloro-2-Butene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	1.1	0	unknown	ShapiroWilk
trans-1,4-Dichloro-2-Butene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	1.1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.4305	0.002502	unknown	ShapiroWilk
Trichloroethene (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.43	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.38	0	unknown	ShapiroWilk
Vinyl Acetate (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	2	0	unknown	ShapiroWilk
Vinyl Acetate (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	2.5	0	unknown	ShapiroWilk
Vinyl Acetate (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	2.5	0	unknown	ShapiroWilk
Vinyl Acetate (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	2.5	0	unknown	ShapiroWilk
Vinyl Acetate (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	2.5	0	unknown	ShapiroWilk
Vinyl Acetate (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	2.5	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	0.1818	0.009676	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	0.1803	0.001147	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.18	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	ST-1	n/a	n/a	n/a	NP (nrm)	NaN	5	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	WT-1	n/a	n/a	n/a	NP (nrm)	NaN	27	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	WT-2	n/a	n/a	n/a	NP (nrm)	NaN	30	1.709	6.265	unknown	ShapiroWilk
Xylenes, Total (ug/L)	WT-3	n/a	n/a	n/a	NP (nrm)	NaN	19	22.32	80.81	unknown	ShapiroWilk
Xylenes, Total (ug/L)	WT-4	n/a	n/a	n/a	NP (nrm)	NaN	18	0.4047	0.0198	unknown	ShapiroWilk
Xylenes, Total (ug/L)	WT-OF	n/a	n/a	n/a	NP (nrm)	NaN	6	0.4	0	unknown	ShapiroWilk

Groundwater Underdrain –
Flagged Outliers

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Flagged_Outliers

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 11:47 AM

	WT-3 Arsenic (mg/L)	WT-1 Barium (mg/L)	WT-2 Barium (mg/L)	WT-3 Barium (mg/L)	WT-3 Beryllium (mg/L)	WT-3 Cadmium (mg/L)	WT-1 Chromium (mg/L)	WT-2 Chromium (mg/L)	WT-3 Chromium (mg/L)	WT-4 Chromium (mg/L)
8/1/2012			2.65 (o)							
12/13/2012										
3/30/2013						0.00101 (o)				
10/5/2015			1.22 (o)							
4/26/2018										
10/16/2018							0.0136 (o)	0.0162 (o)	0.00757 (o)	0.0066 (o)
10/7/2020	13.9 (o)	1.67 (o)		35.3 (o)	0.00806 (o)	0.00138 (o)			0.0448 (o)	
4/29/2024										

	WT-1 Cobalt (mg/L)	WT-2 Cobalt (mg/L)	WT-3 Cobalt (mg/L)	WT-OF Cobalt (mg/L)	WT-1 Copper (mg/L)	WT-2 Copper (mg/L)	WT-3 Copper (mg/L)	WT-1 Lead (mg/L)	WT-2 Lead (mg/L)	WT-3 Lead (mg/L)
8/1/2012										
12/13/2012										
3/30/2013										0.0181 (o)
10/5/2015		0.0528 (o)								
4/26/2018										
10/16/2018					0.00896 (o)	0.0112 (o)		0.00725 (o)	0.00754 (o)	0.00354 (o)
10/7/2020	0.0182 (o)		0.07 (o)				0.053 (o)			0.0321 (o)
4/29/2024	0.207 (o)			0.0633 (o)						

	WT-4 Lead (mg/L)	WT-1 Nickel (mg/L)	WT-2 Nickel (mg/L)	WT-3 Nickel (mg/L)	WT-3 Selenium (mg/L)	WT-4 Selenium (mg/L)	WT-2 Thallium (mg/L)	WT-1 Vanadium (mg/L)	WT-2 Vanadium (mg/L)	WT-3 Vanadium (mg/L)
8/1/2012			0.0676 (o)				0.00251 (o)			
12/13/2012				0.183 (o)						
3/30/2013										
10/5/2015			0.094 (o)							
4/26/2018						0.00457 (Jo)				
10/16/2018	0.00281 (o)							0.0213 (o)	0.0244 (o)	0.0128 (o)
10/7/2020				0.134 (o)	0.0311 (o)					0.128 (o)
4/29/2024		0.129 (o)								

	WT-4 Vanadium (mg/L)	WT-3 Zinc (mg/L)
8/1/2012		
12/13/2012		0.258 (o)
3/30/2013		0.861 (o)
10/5/2015		
4/26/2018		
10/16/2018	0.0144 (o)	
10/7/2020		0.419 (o)
4/29/2024		

Flagged_Outliers

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 4:52 PM

WT-2 1,1,2-Trichloroethane (ug/L) WT-1 2-Butanone [MEK] (ug/L) WT-2 2-Butanone [MEK] (ug/L) WT-2 4-Methyl-2-pentanone [MIBK] (ug/L) WT-3 4-Methyl-2-pentanone [MIBK] (ug/L) WT-1 Acetone (ug/L) WT-2 Acetone (ug/L) WT-2 Benzene (ug/L) WT-3 Benzene (ug/L) WT-3 Bromodichloromethane (ug/L)

3/3/2010				86.2 (o)	23.7 (o)					
8/1/2012			71.5 (o)		45 (o)					
12/13/2012				<2.1 (o)				53.5 (o)		
3/30/2013				22.7 (o)				14.1 (o)		
10/5/2015		<2.1 (o)								
10/7/2020						1.18 (o)				
4/13/2021						2.4 (o)				
10/20/2021	0.5 (Jo)									
5/1/2023								1.96 (o)		
4/29/2024		32.7 (o)			43.7 (o)					

WT-4 Bromodichloromethane (ug/L) WT-3 Carbon Disulfide (ug/L) WT-3 Carbon Tetrachloride (ug/L) WT-3 Chlorodibromomethane (ug/L) WT-2 Chloroform (ug/L) WT-3 Chloroform (ug/L) WT-4 Chloroform (ug/L) WT-2 Ethylbenzene (ug/L) WT-3 Ethylbenzene (ug/L) WT-2 Methylene Chloride (ug/L)

3/3/2010										
8/1/2012										
12/13/2012		<0.45 (o)	<0.65 (o)					136 (o)		
3/30/2013		6.23 (o)	8.39 (o)					34.8 (o)		
10/5/2015				6.38 (Jo)			15.7 (o)		25.5 (Jo)	
10/7/2020										
4/13/2021										
10/20/2021										
5/1/2023	2.02 (o)			1.38 (Jo)		6.75 (o)	8.17 (o)			
4/29/2024										

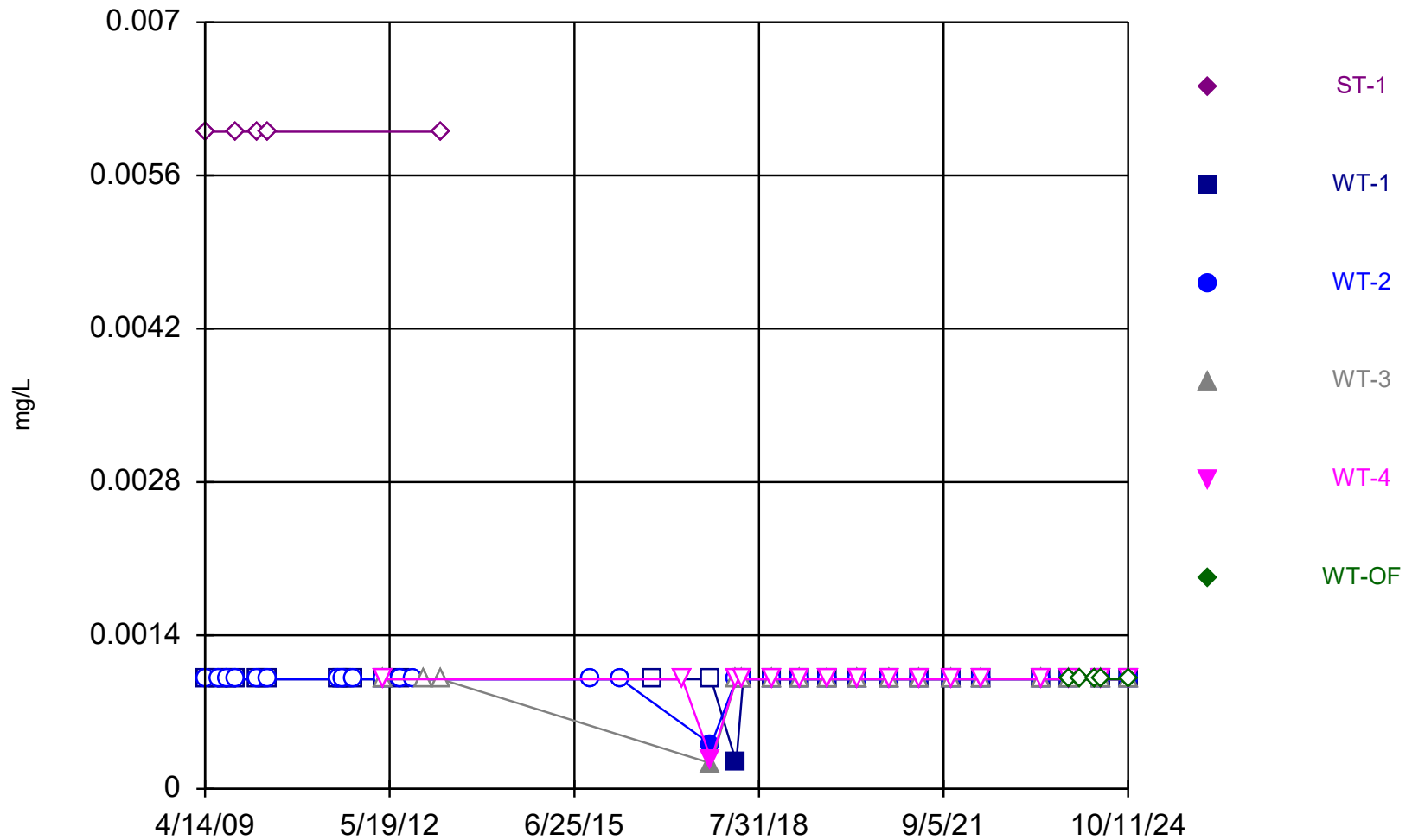
WT-3 Styrene (ug/L) WT-2 Toluene (ug/L) WT-3 Toluene (ug/L) WT-2 Xylenes, Total (ug/L) WT-3 Xylenes, Total (ug/L)

3/3/2010					
8/1/2012					
12/13/2012	35 (o)		236 (o)		350 (o)
3/30/2013	5.54 (o)		65.5 (o)		67.1 (o)
10/5/2015		21.7 (o)		34.5 (o)	
10/7/2020					
4/13/2021					
10/20/2021					
5/1/2023					
4/29/2024					

Groundwater Underdrain –
Time Series

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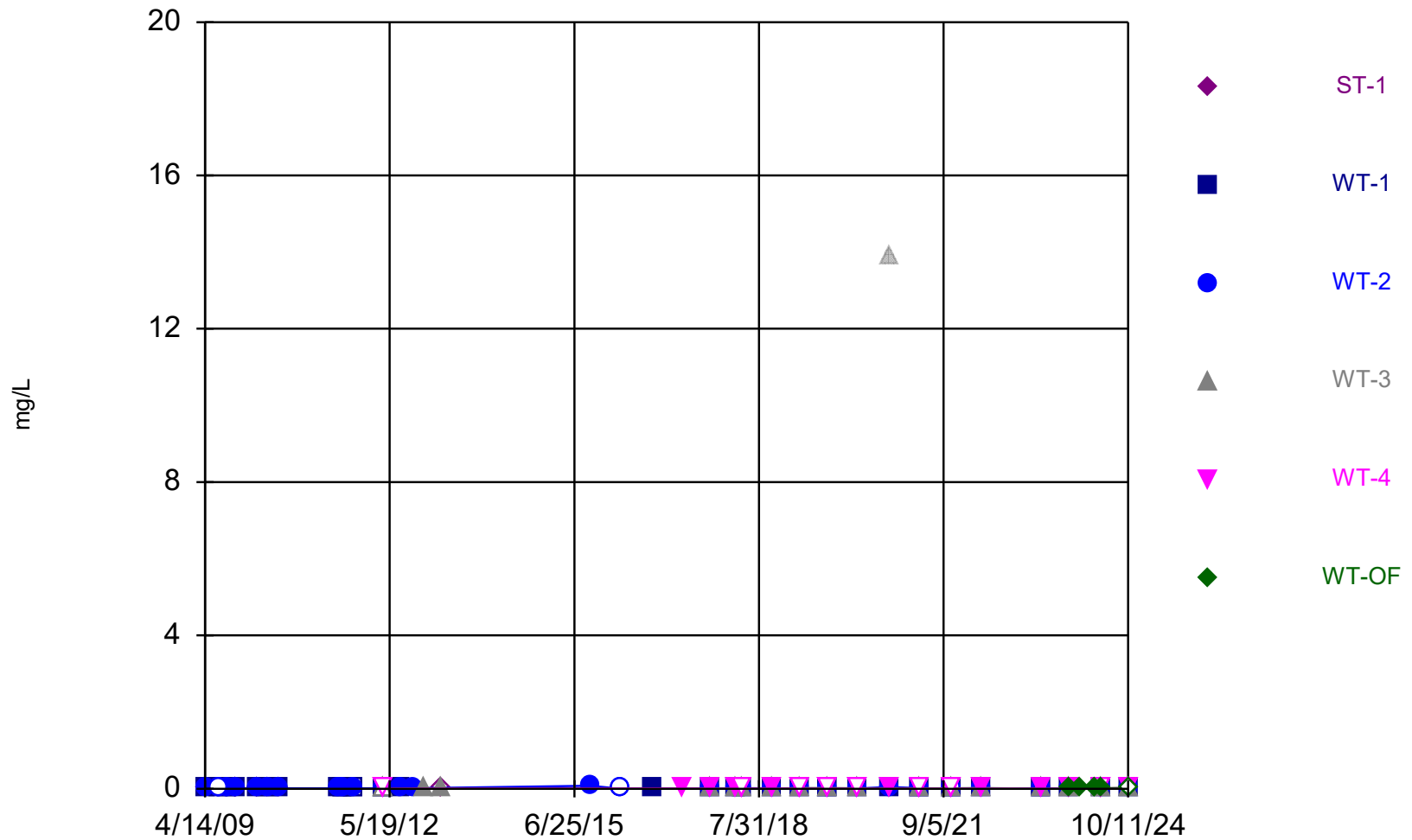
Time Series



Constituent: Antimony Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

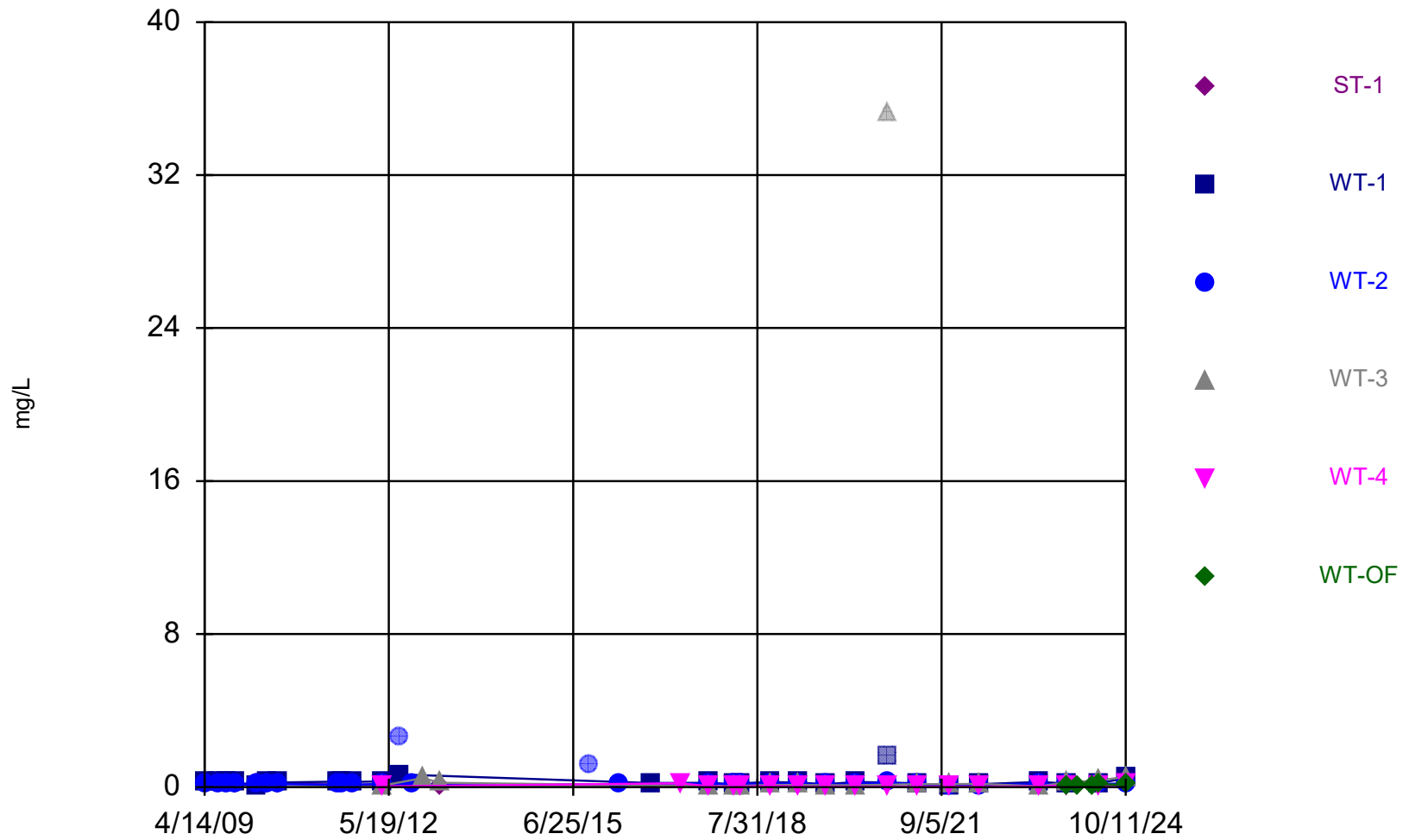
Time Series



Constituent: Arsenic Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

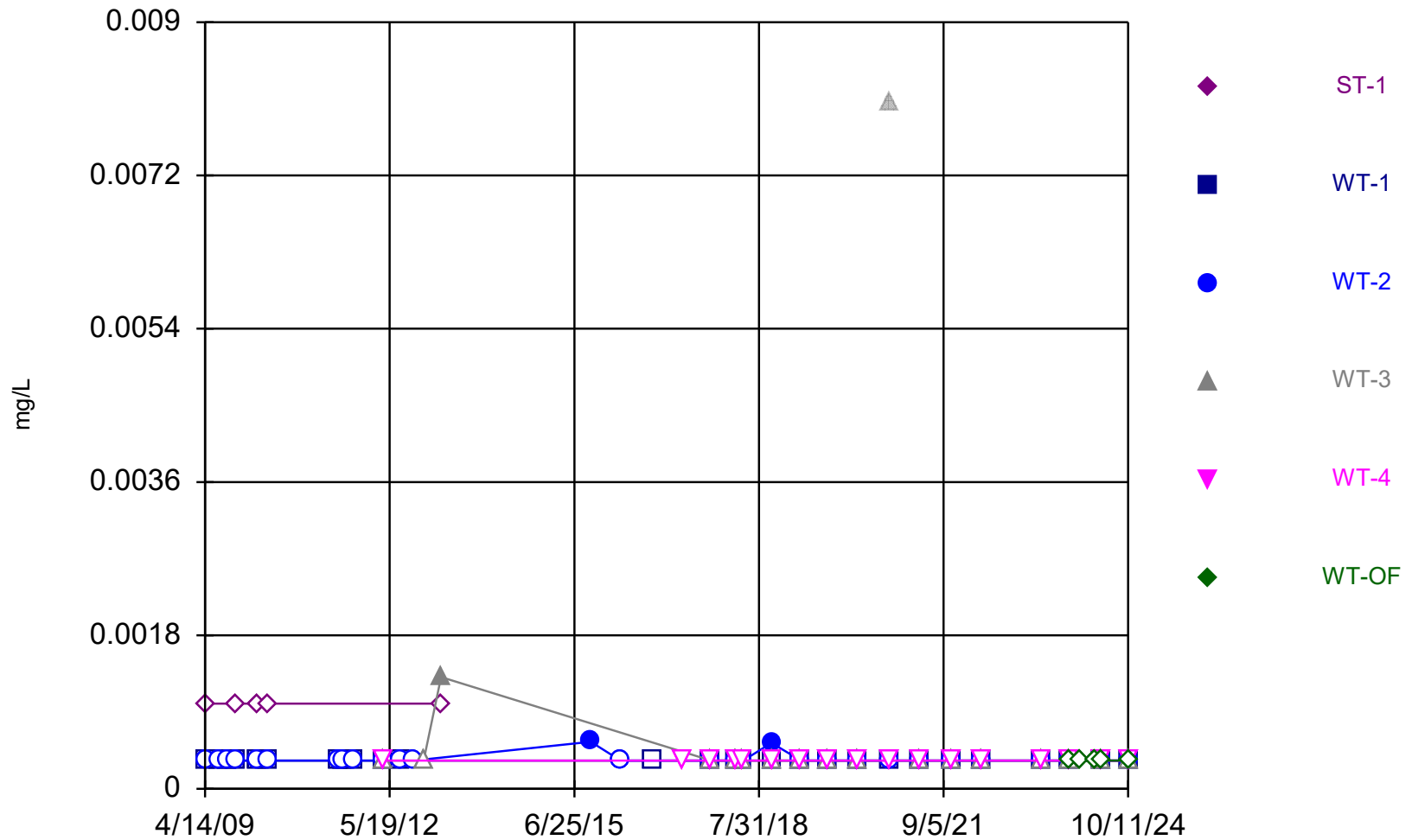
Time Series



Constituent: Barium Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics

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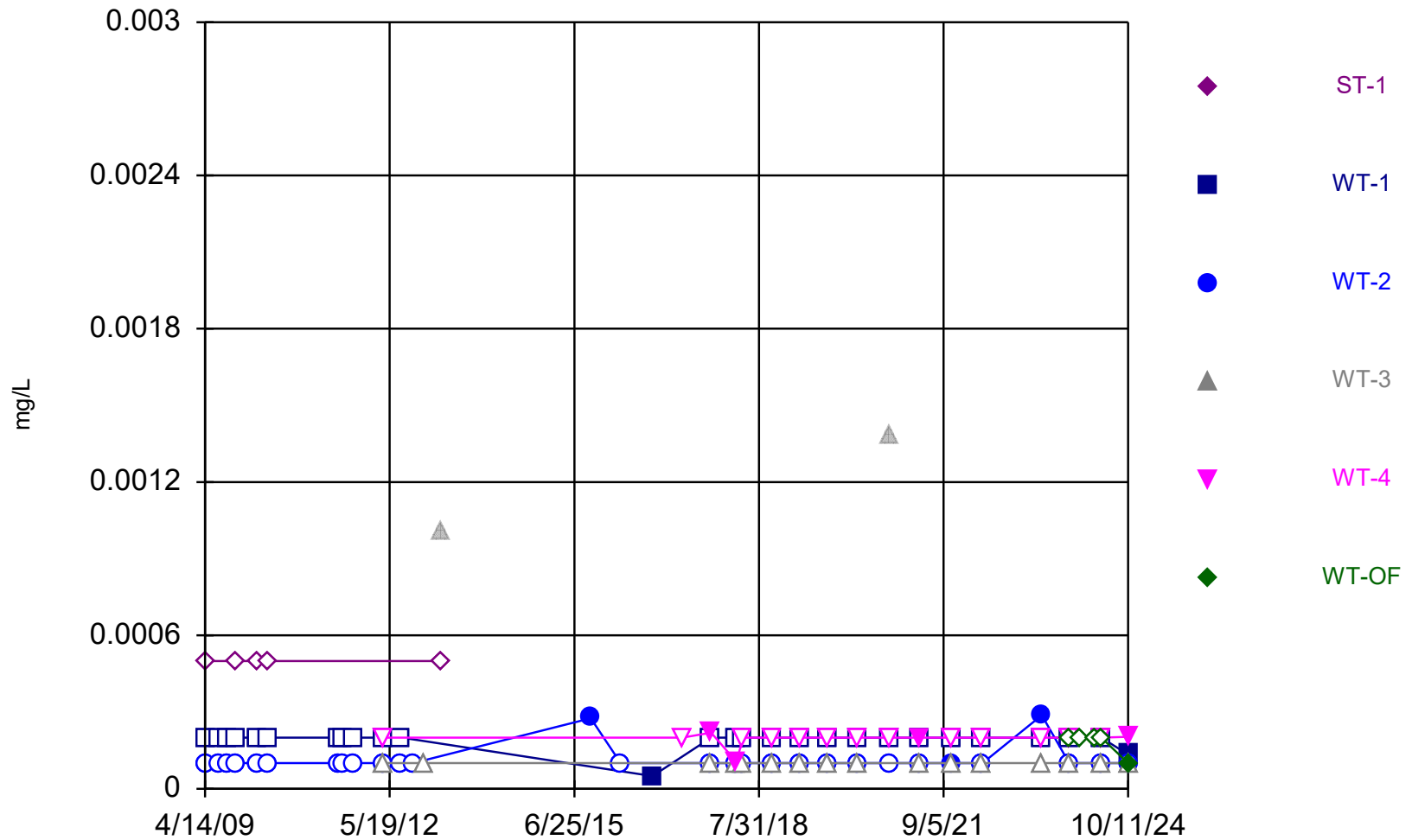
Time Series



Constituent: Beryllium Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics

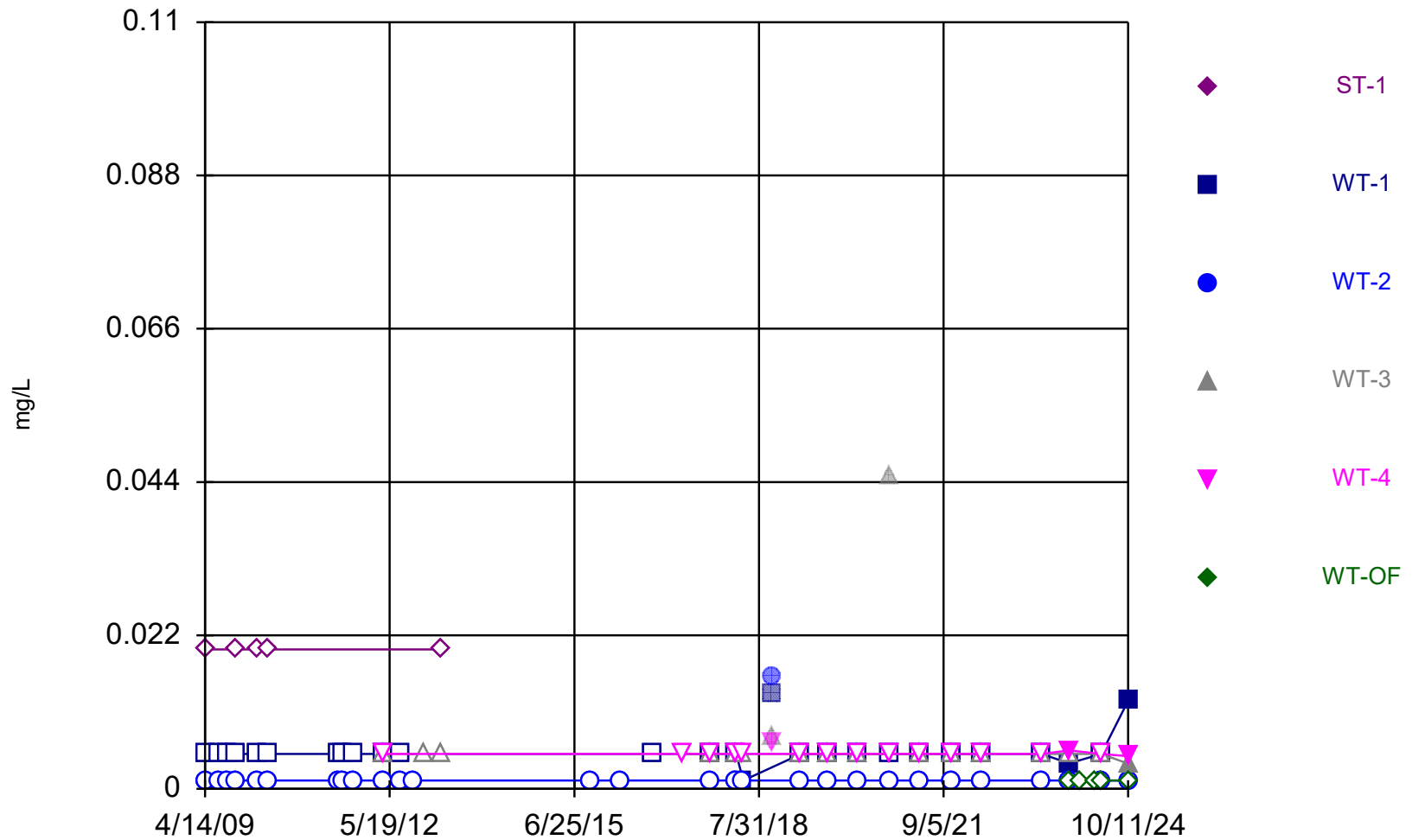
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: Cadmium Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

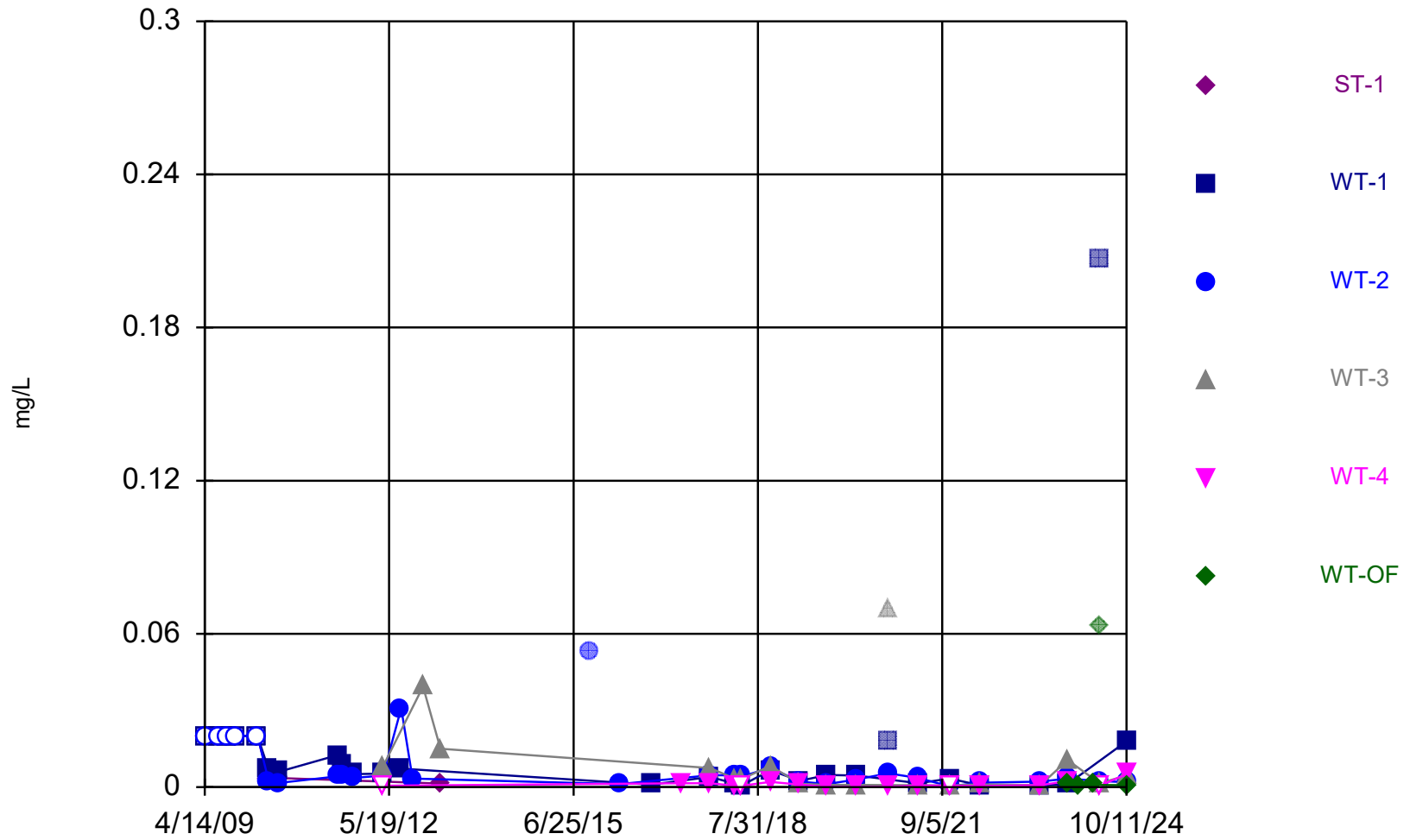
Time Series



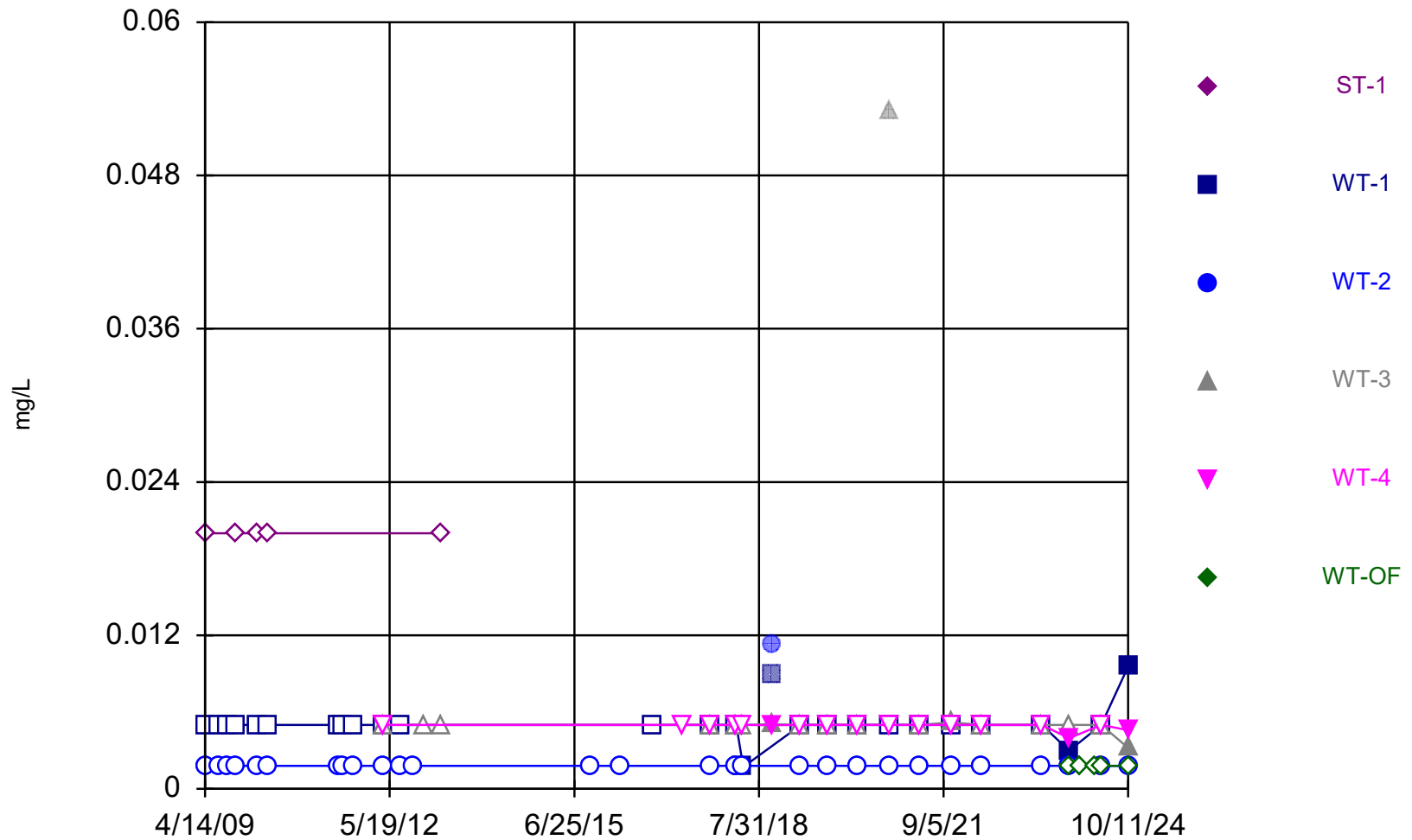
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series

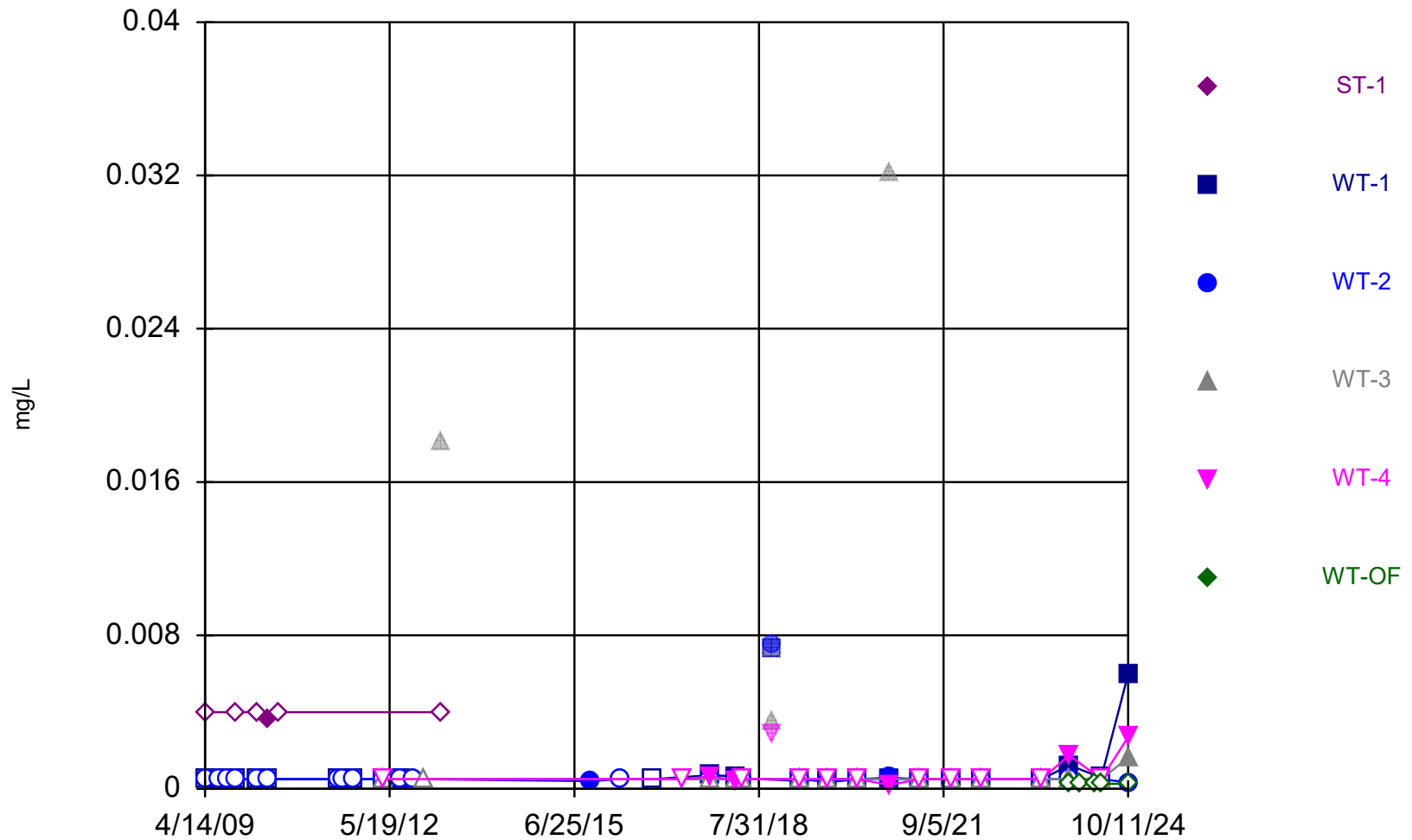


Time Series



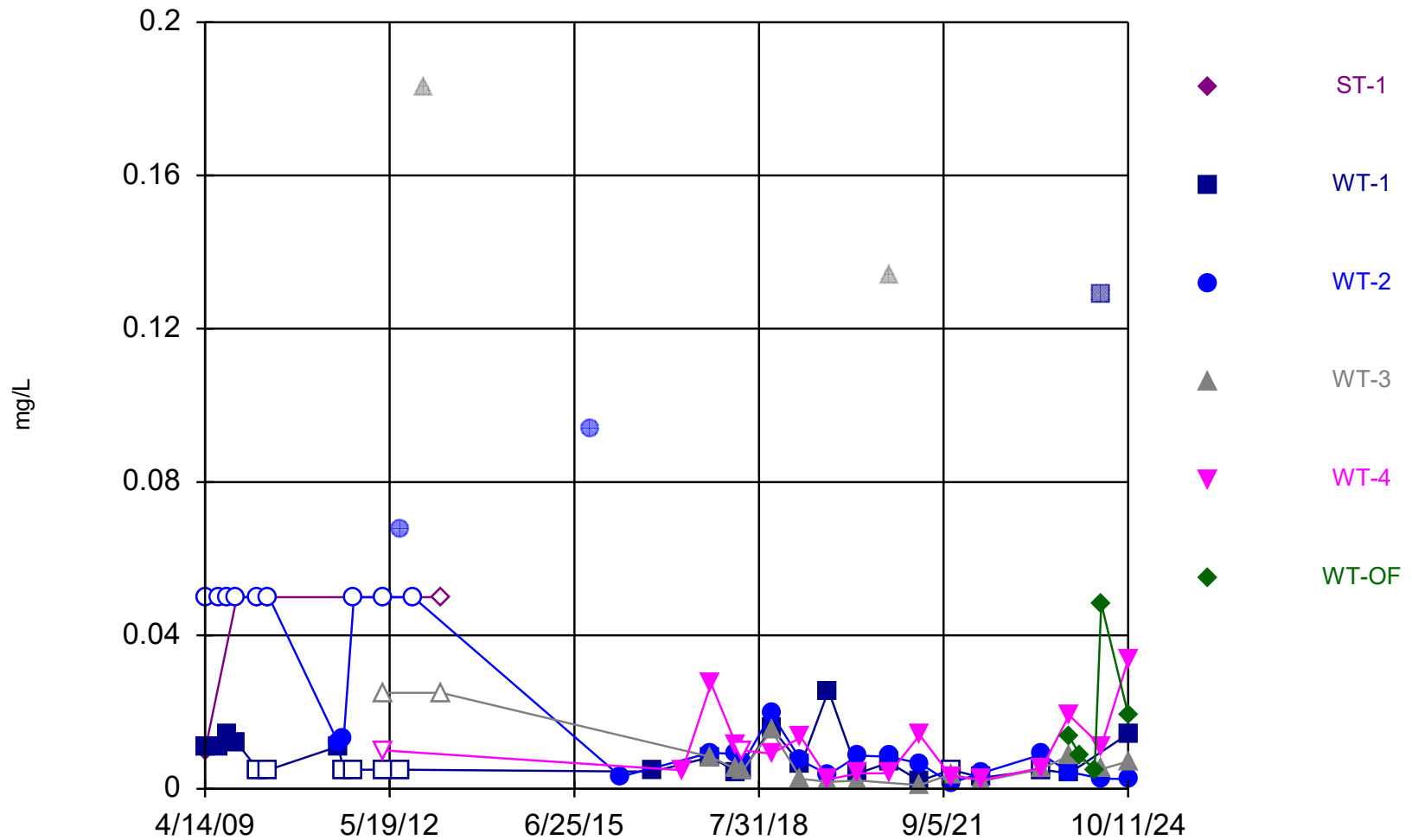
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: Lead Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

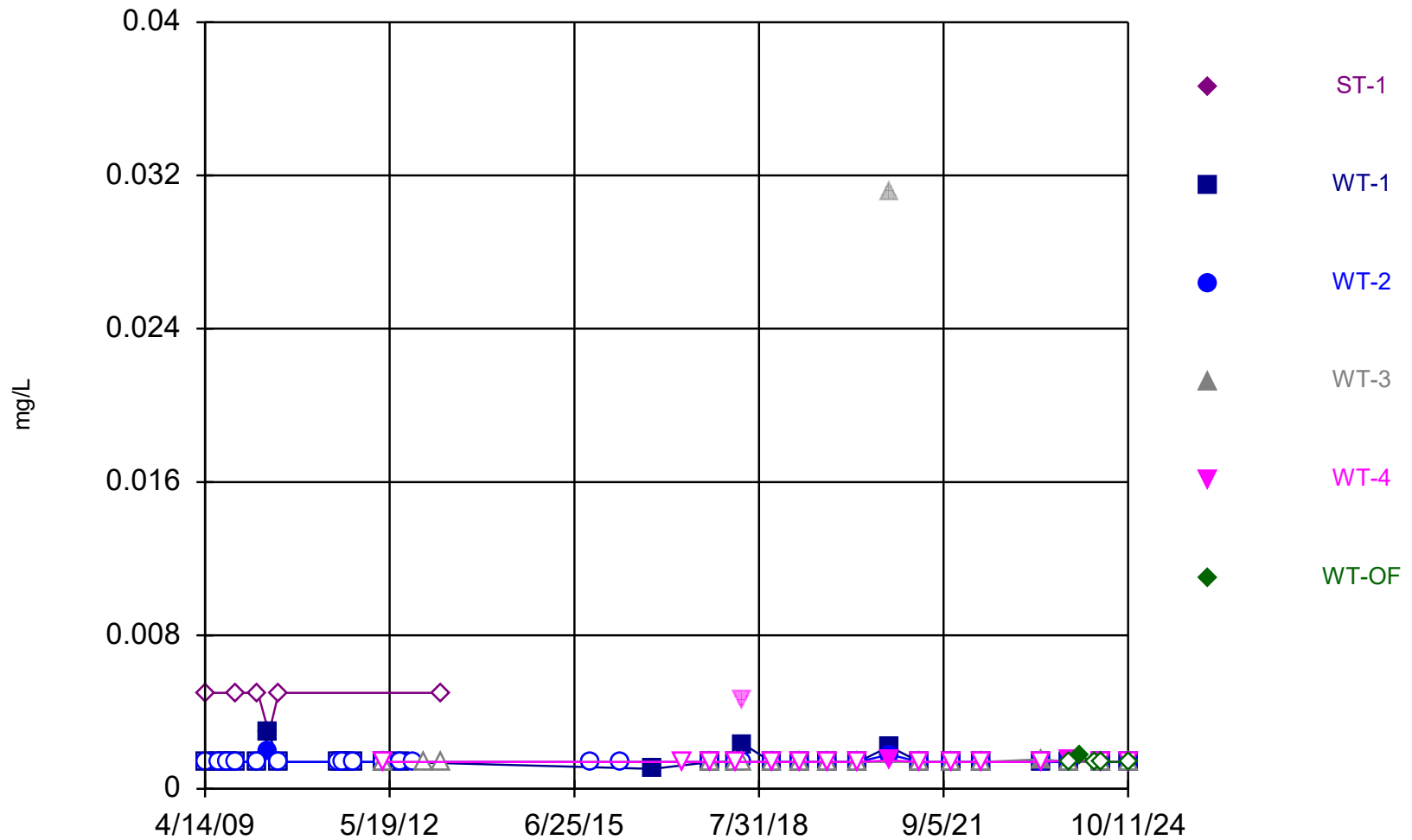
Time Series



Constituent: Nickel Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics

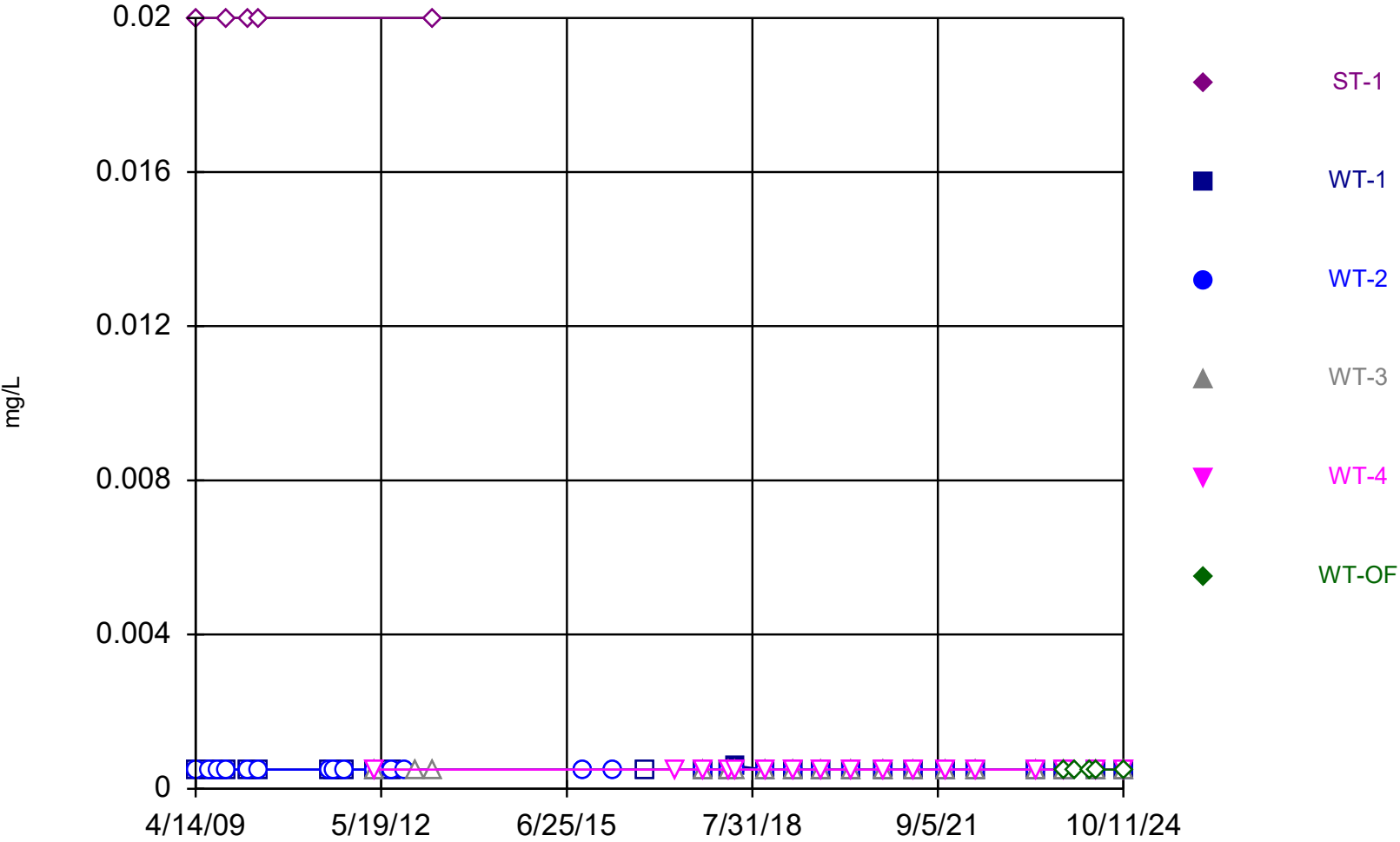
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



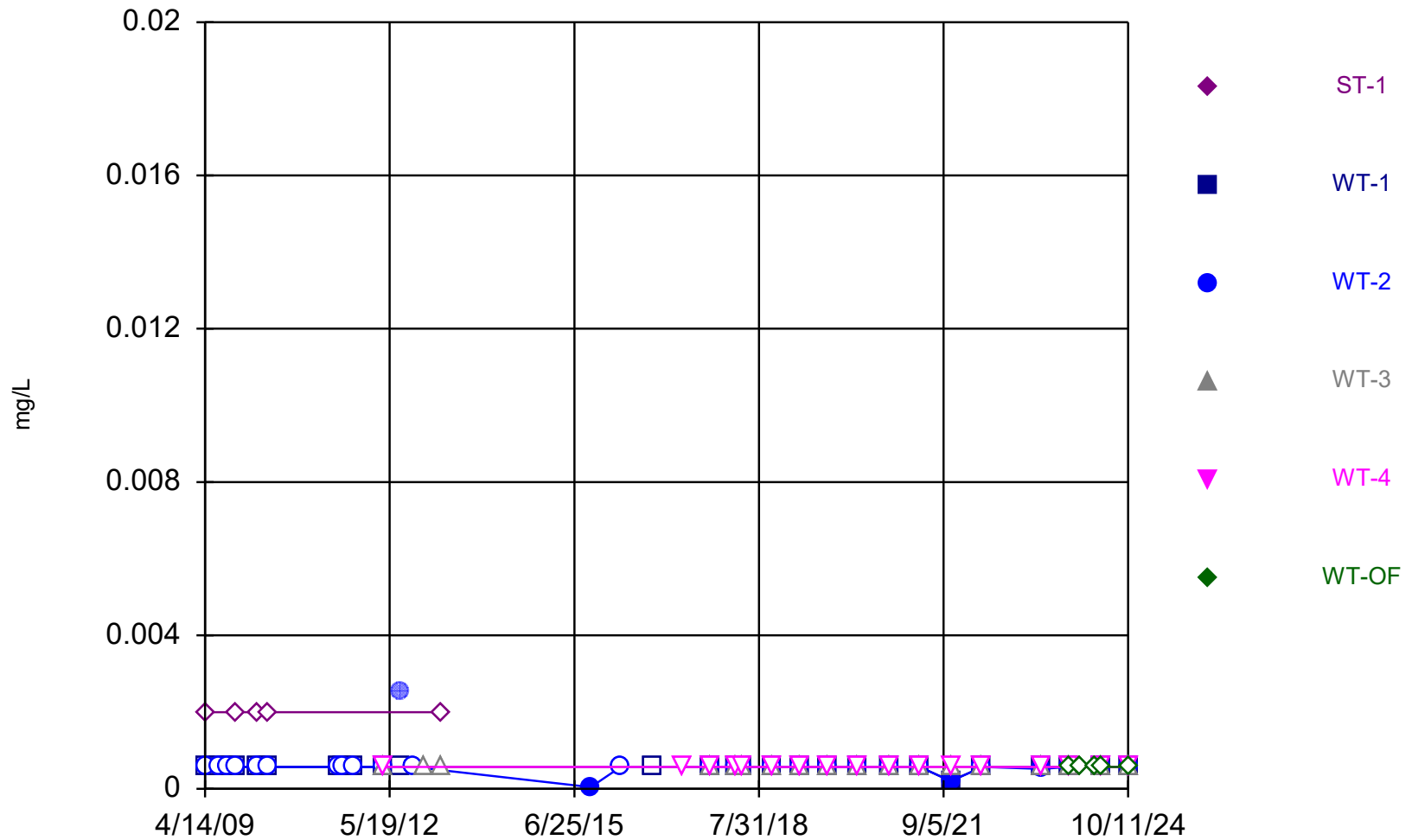
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: Silver Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

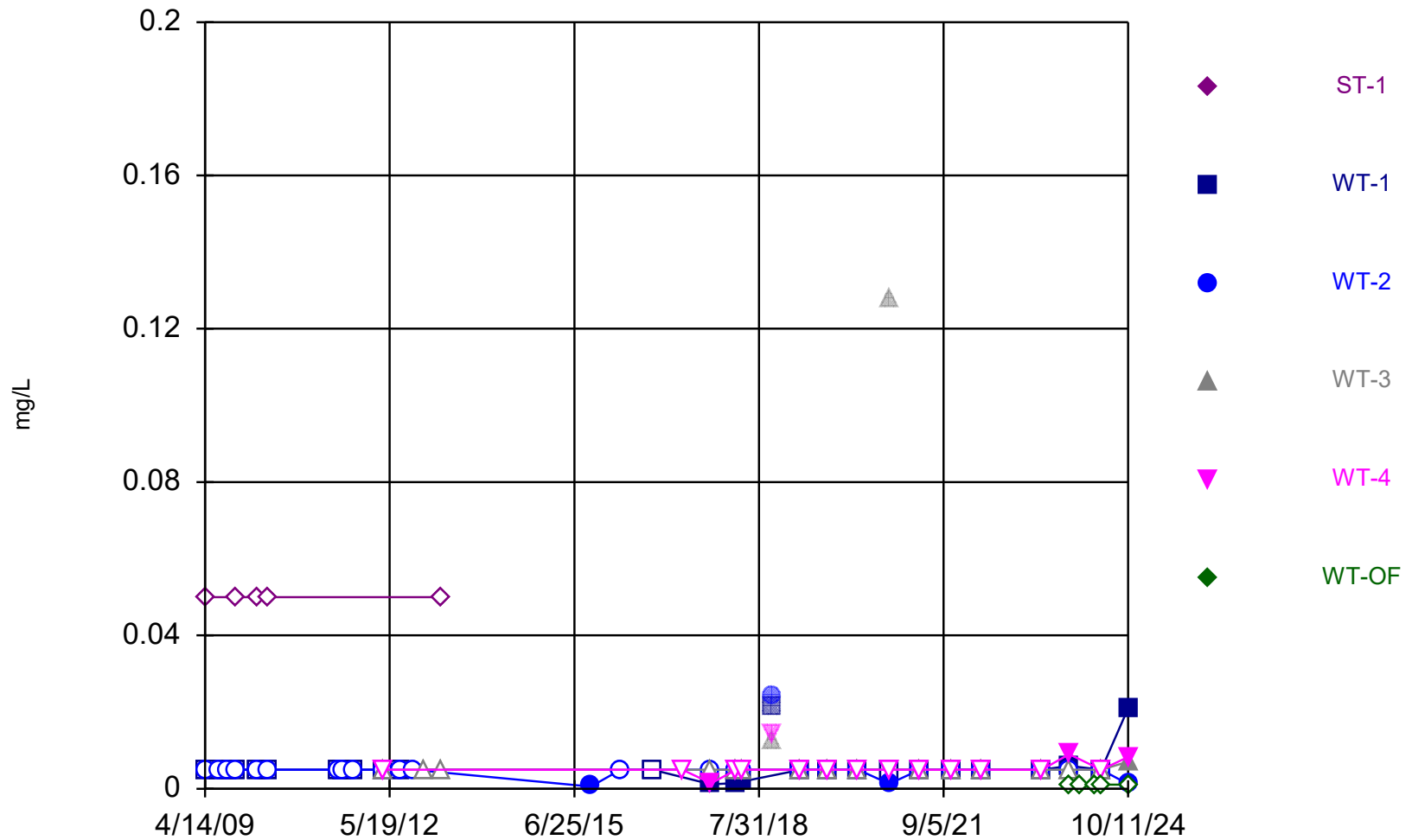
Time Series



Constituent: Thallium Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics

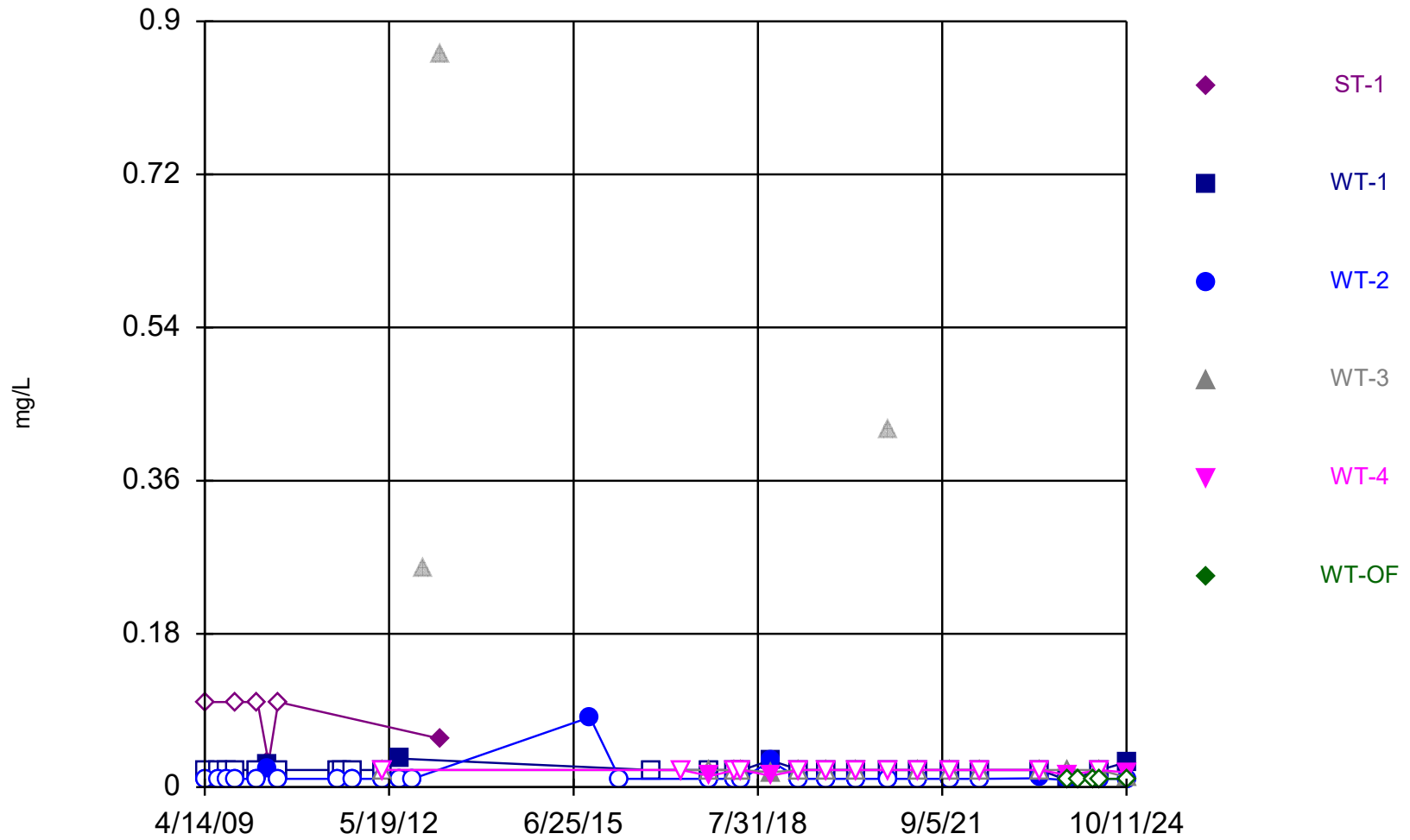
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



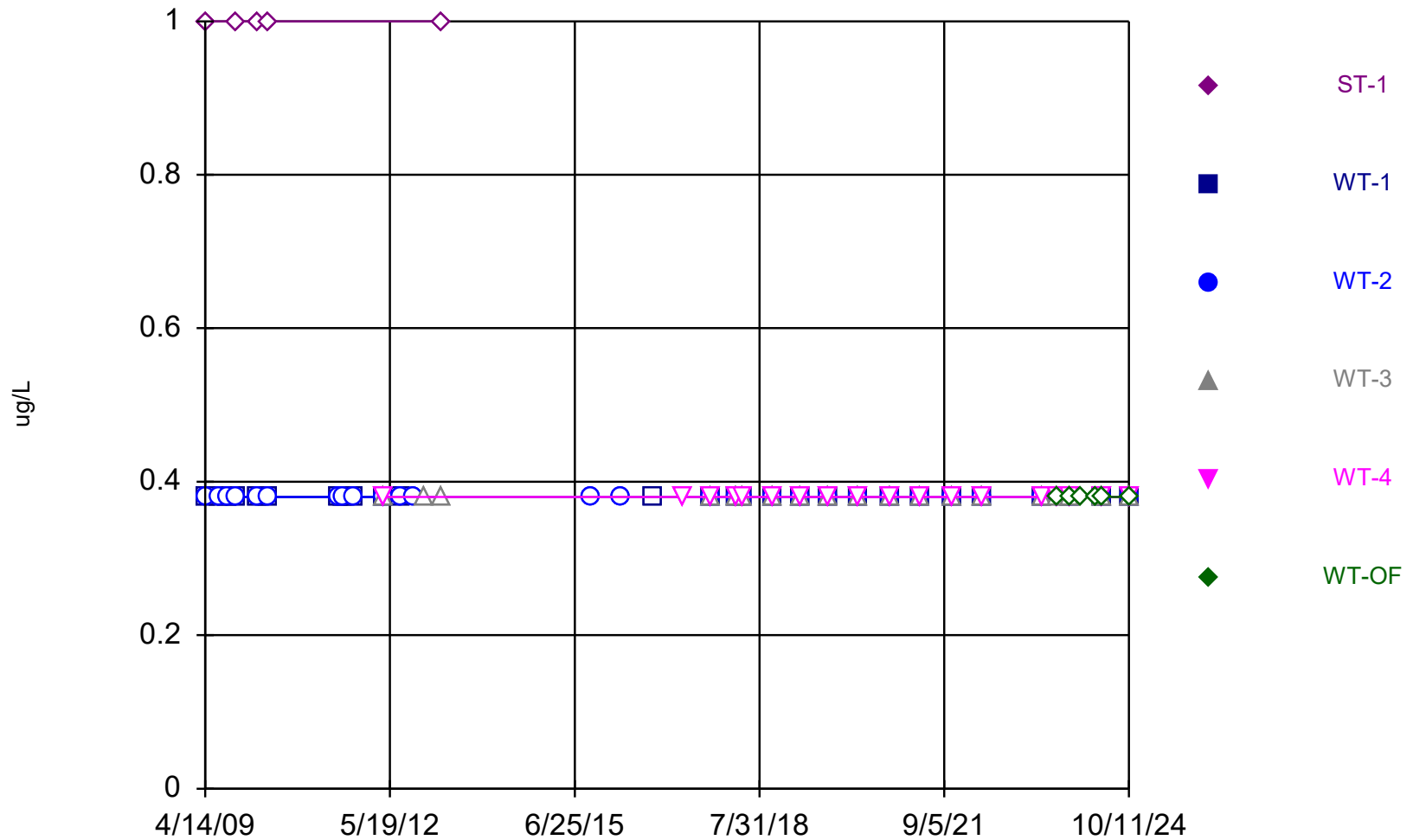
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



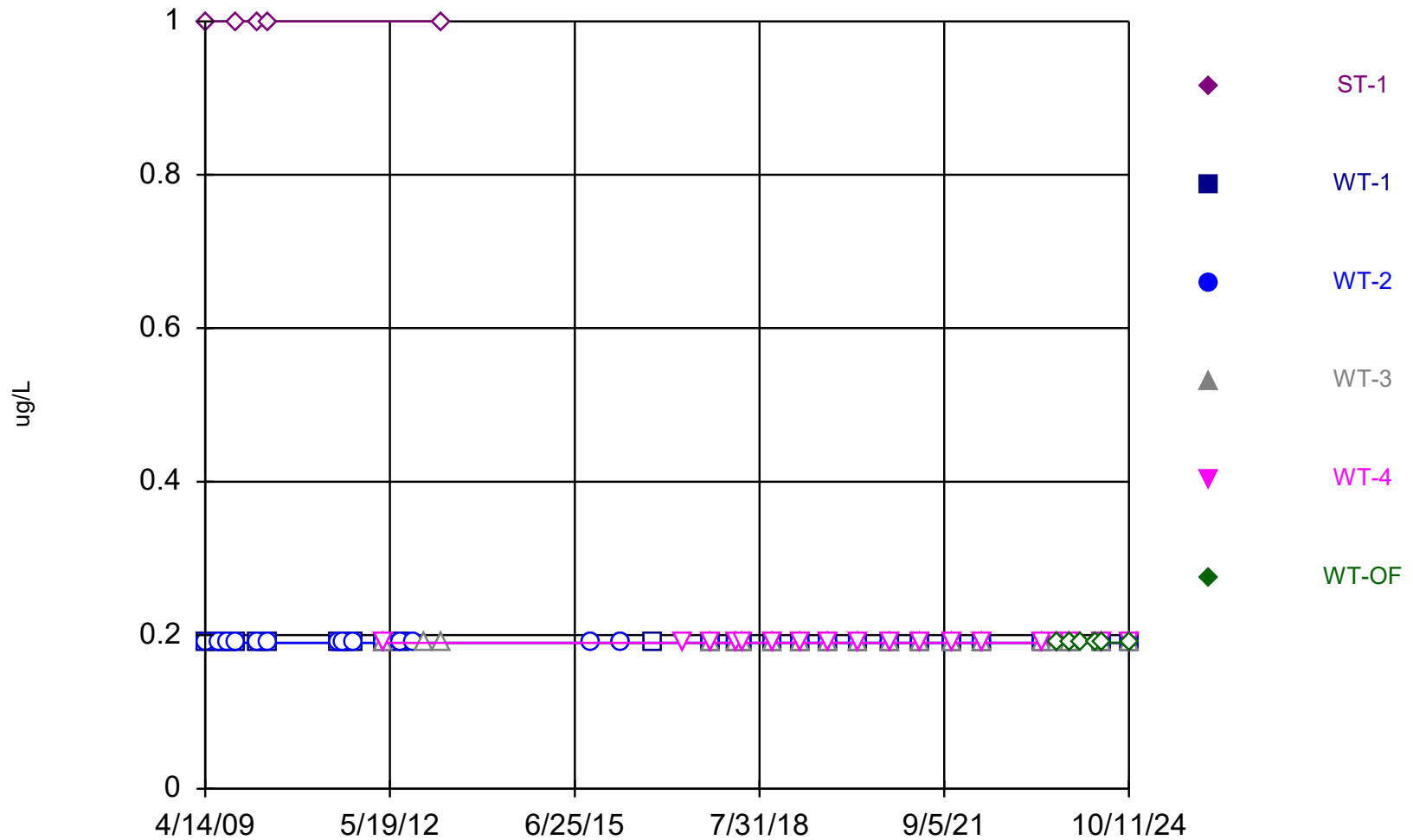
Constituent: Zinc Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: 1,1,1,2-Tetrachloroethane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

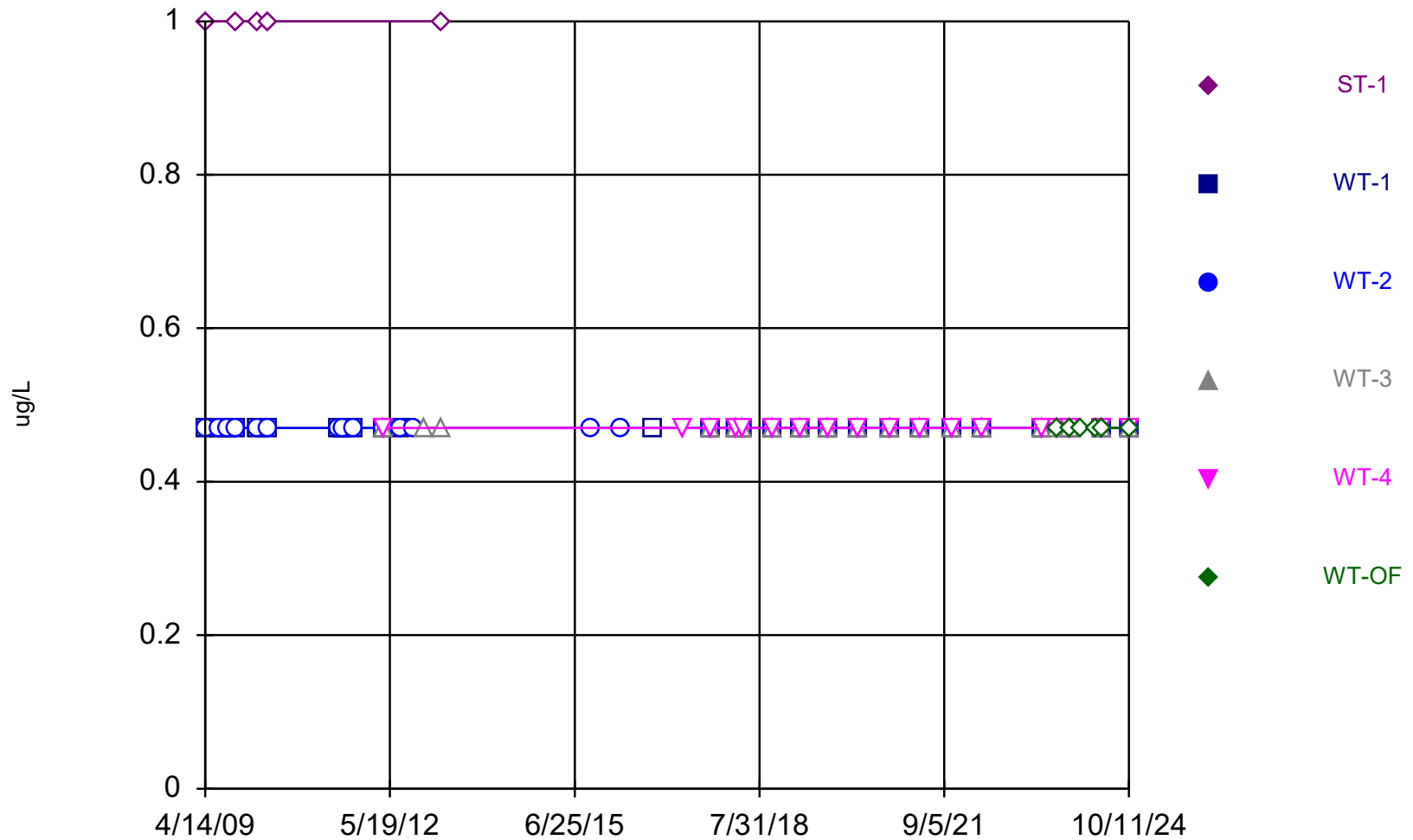
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

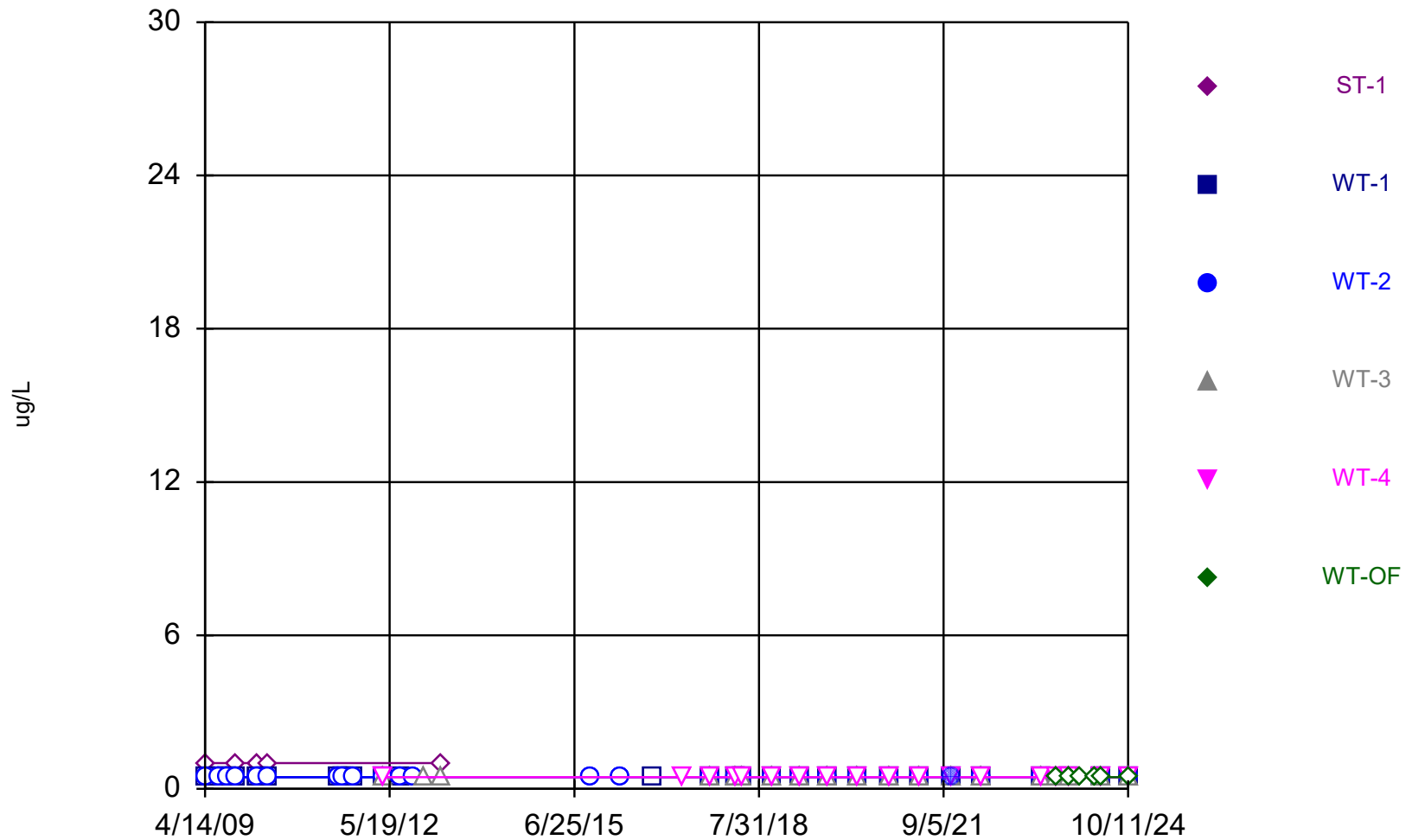
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series

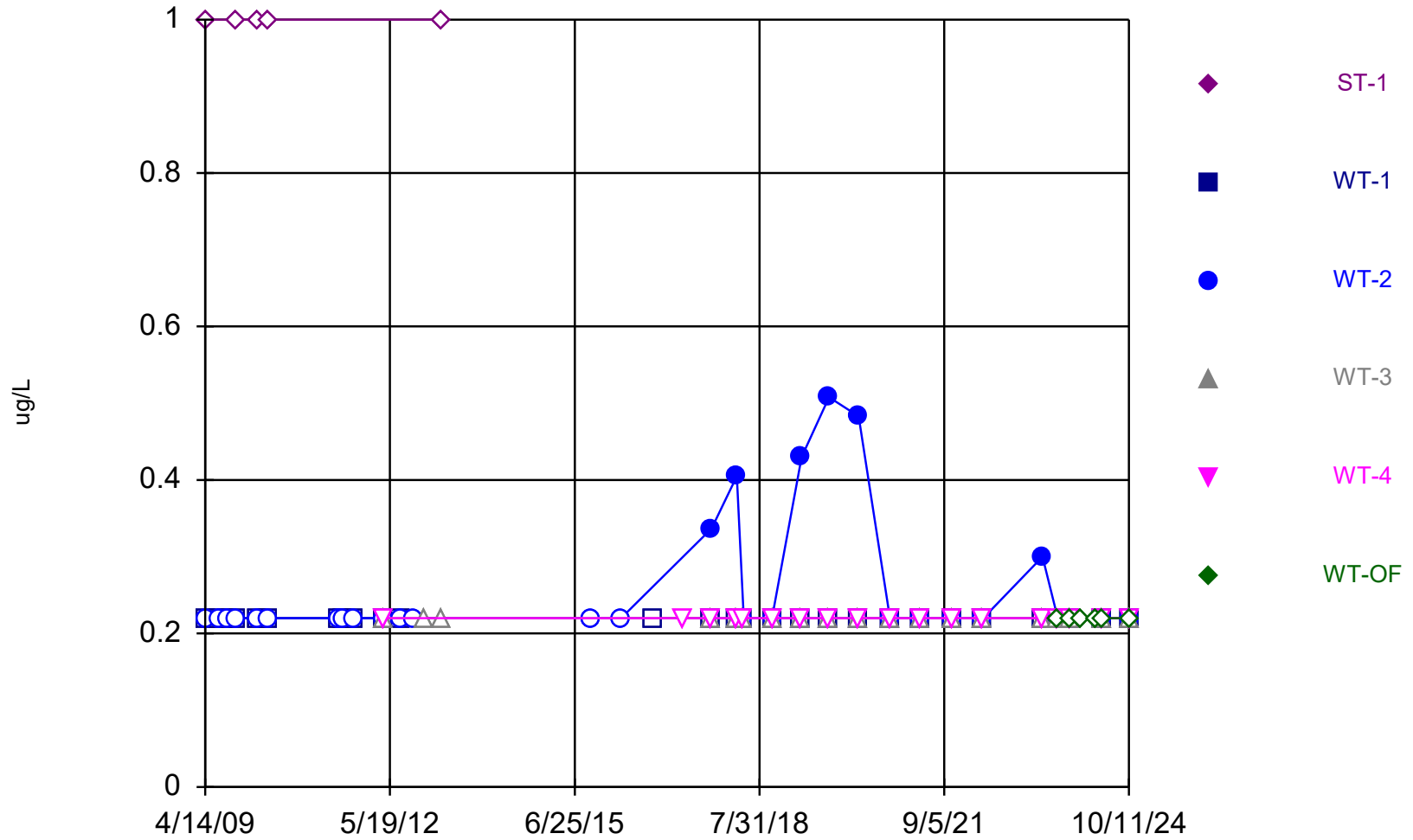


Constituent: 1,1,2,2-Tetrachloroethane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series

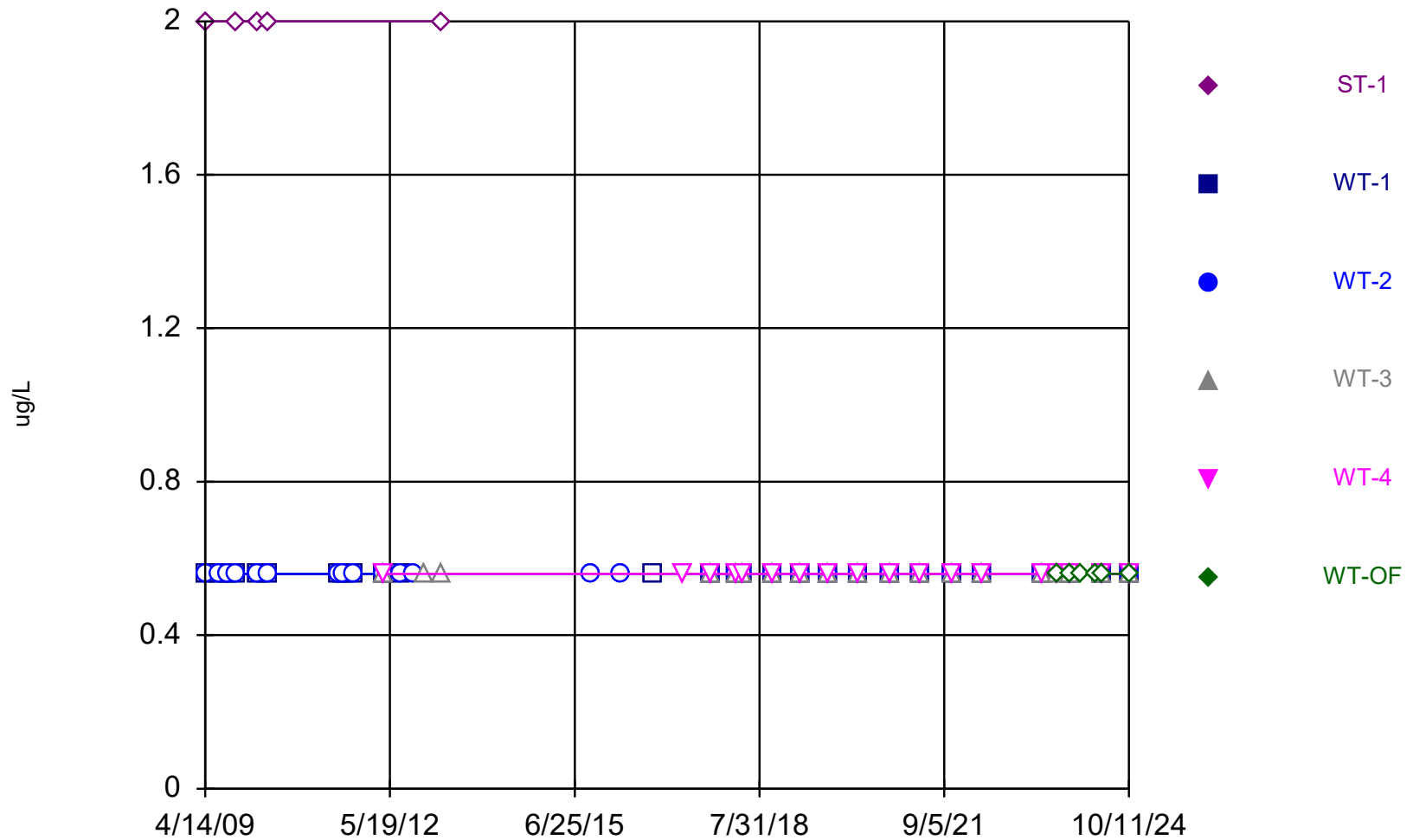


Time Series



Constituent: 1,1-Dichloroethane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

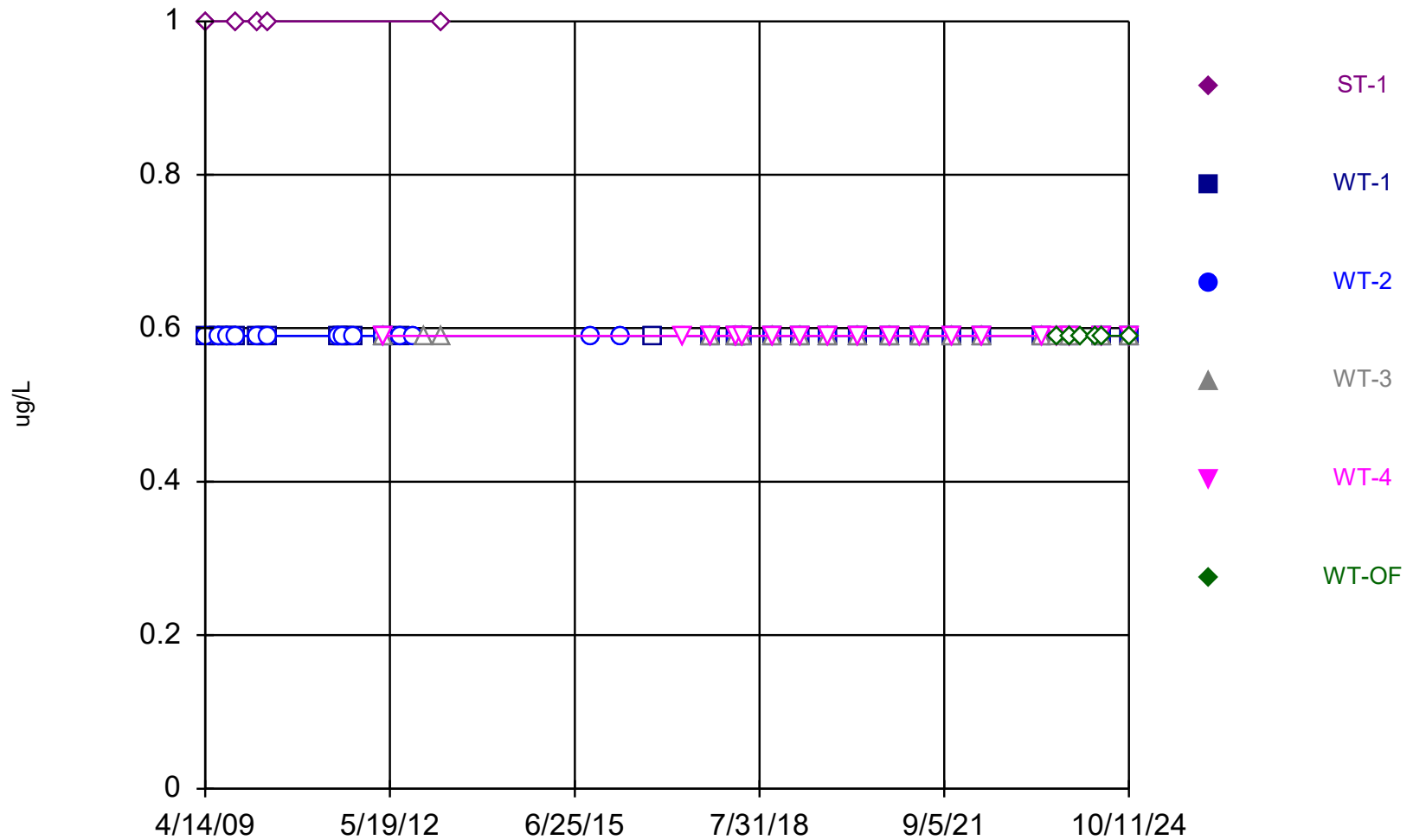
Time Series



Constituent: 1,1-Dichloroethene Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

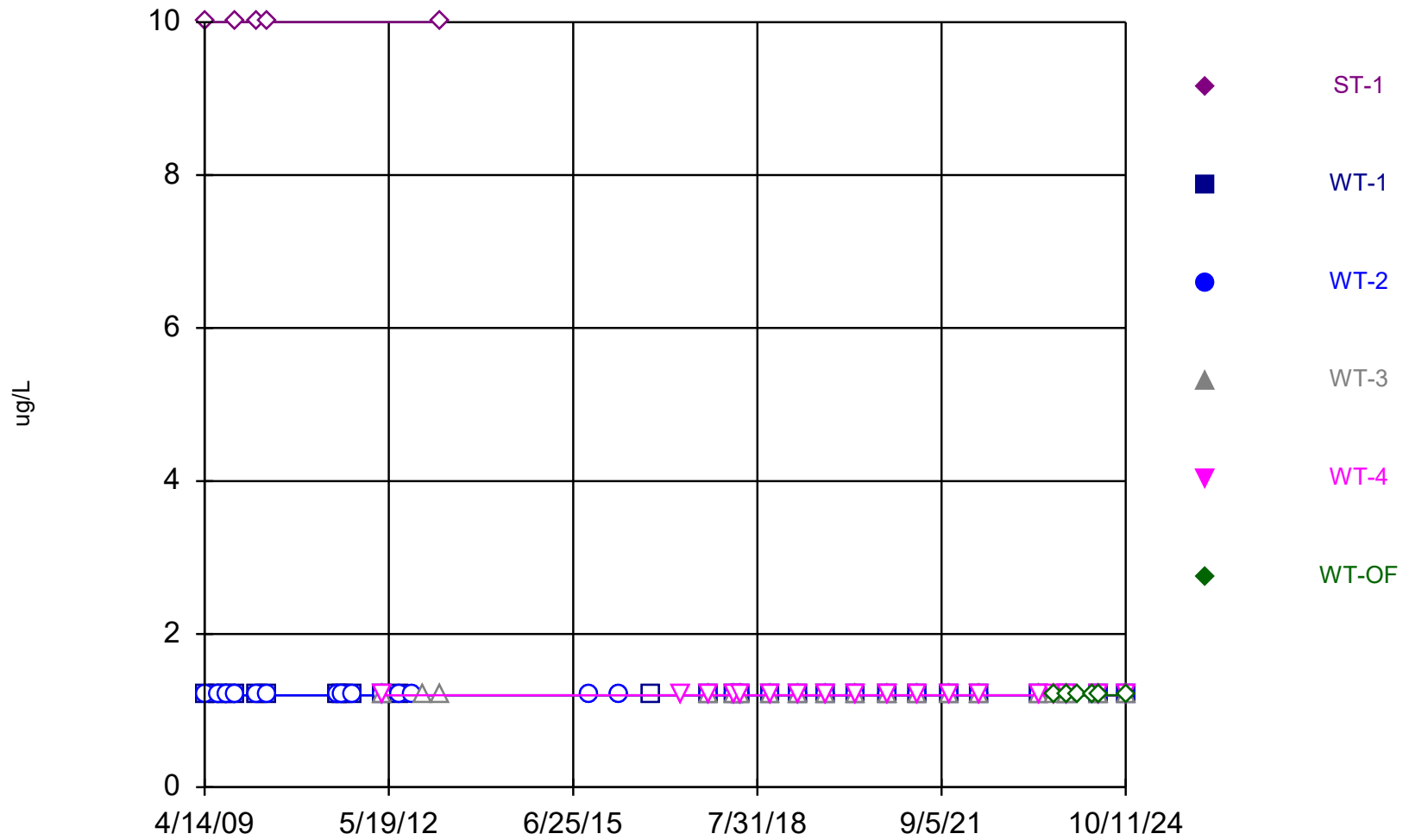
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



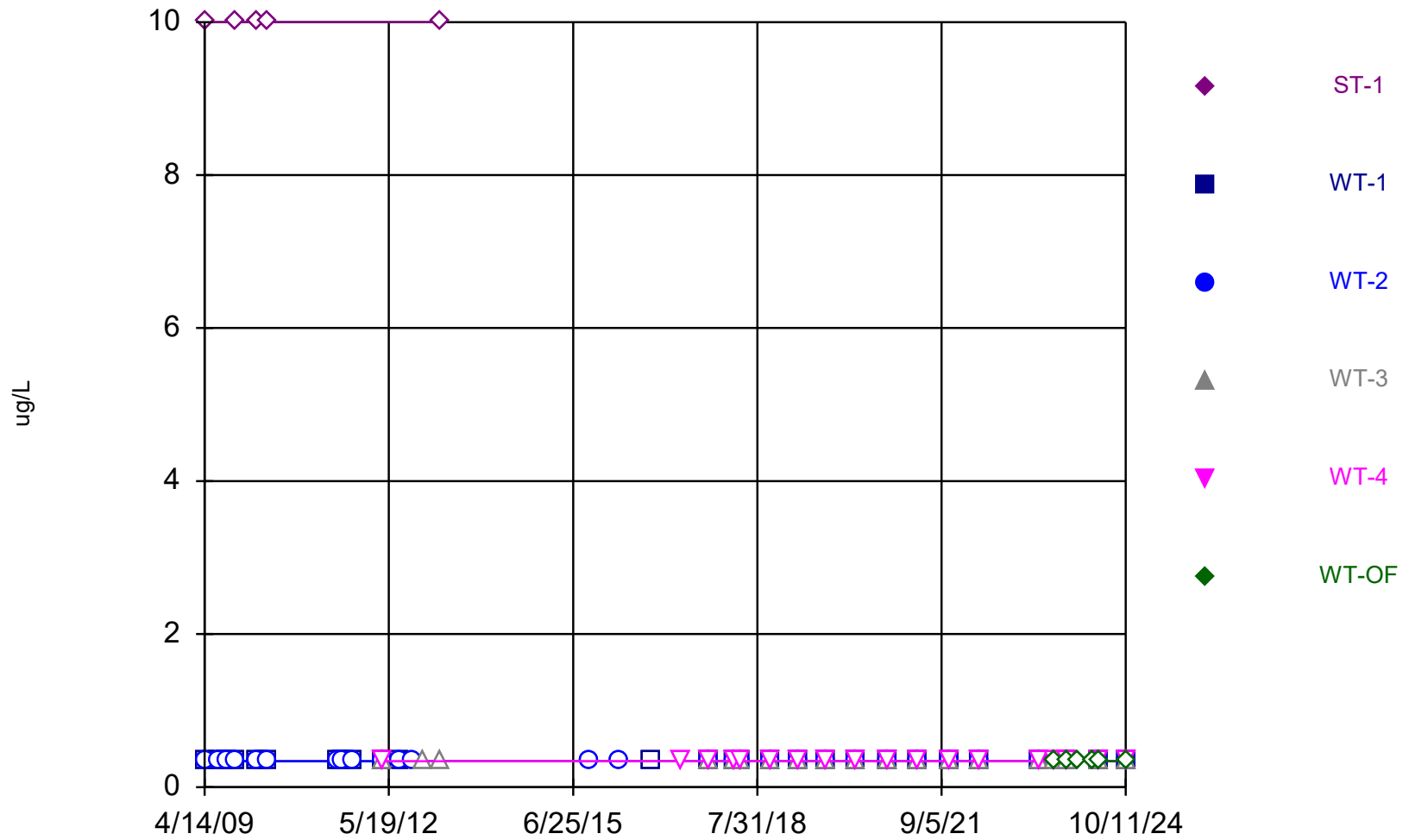
Constituent: 1,2,3-Trichloropropane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



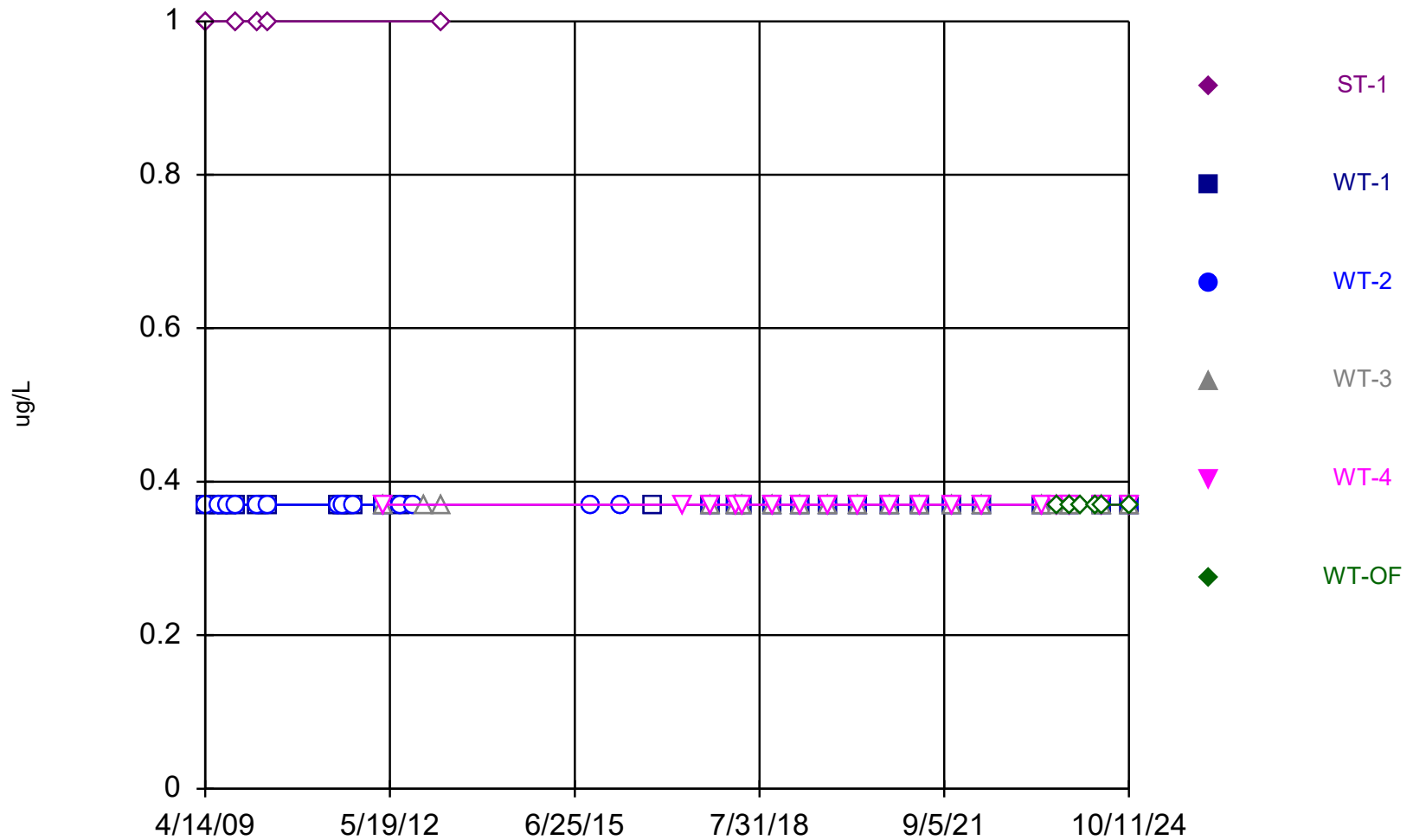
Constituent: 1,2-Dibromo-3-Chloropropane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: 1,2-Dibromoethane [EDB] Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

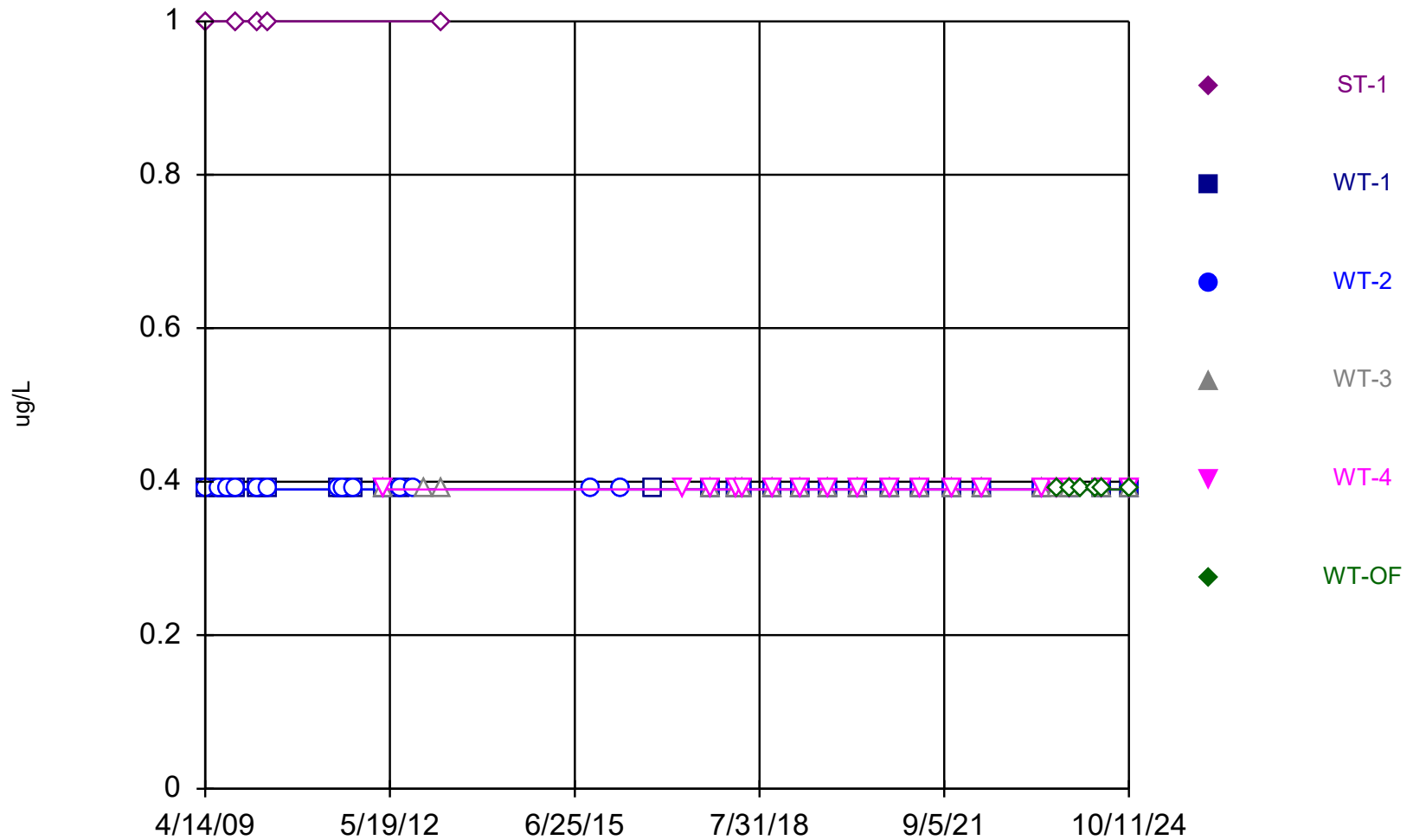
Time Series



Constituent: 1,2-Dichlorobenzene Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

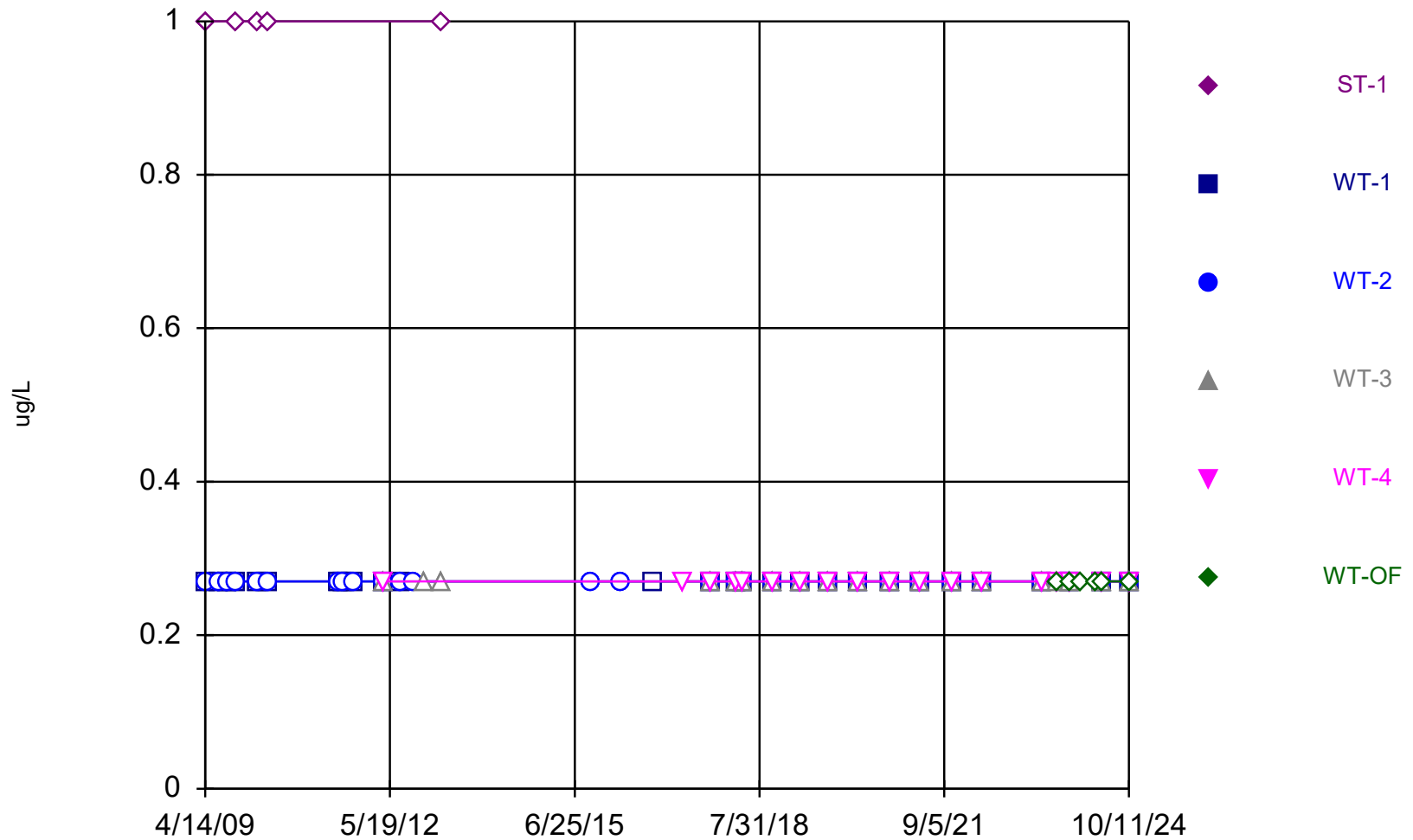
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

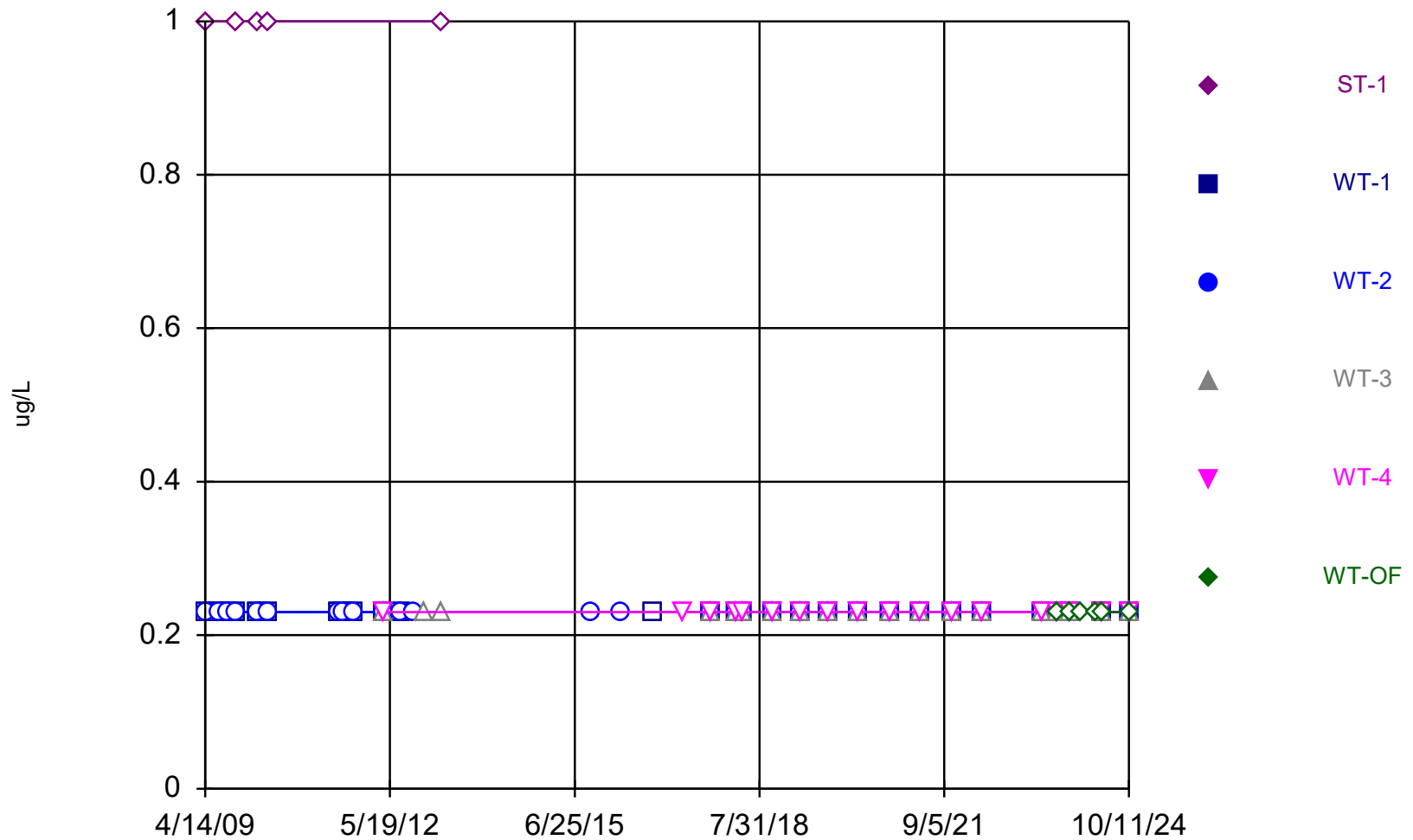
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

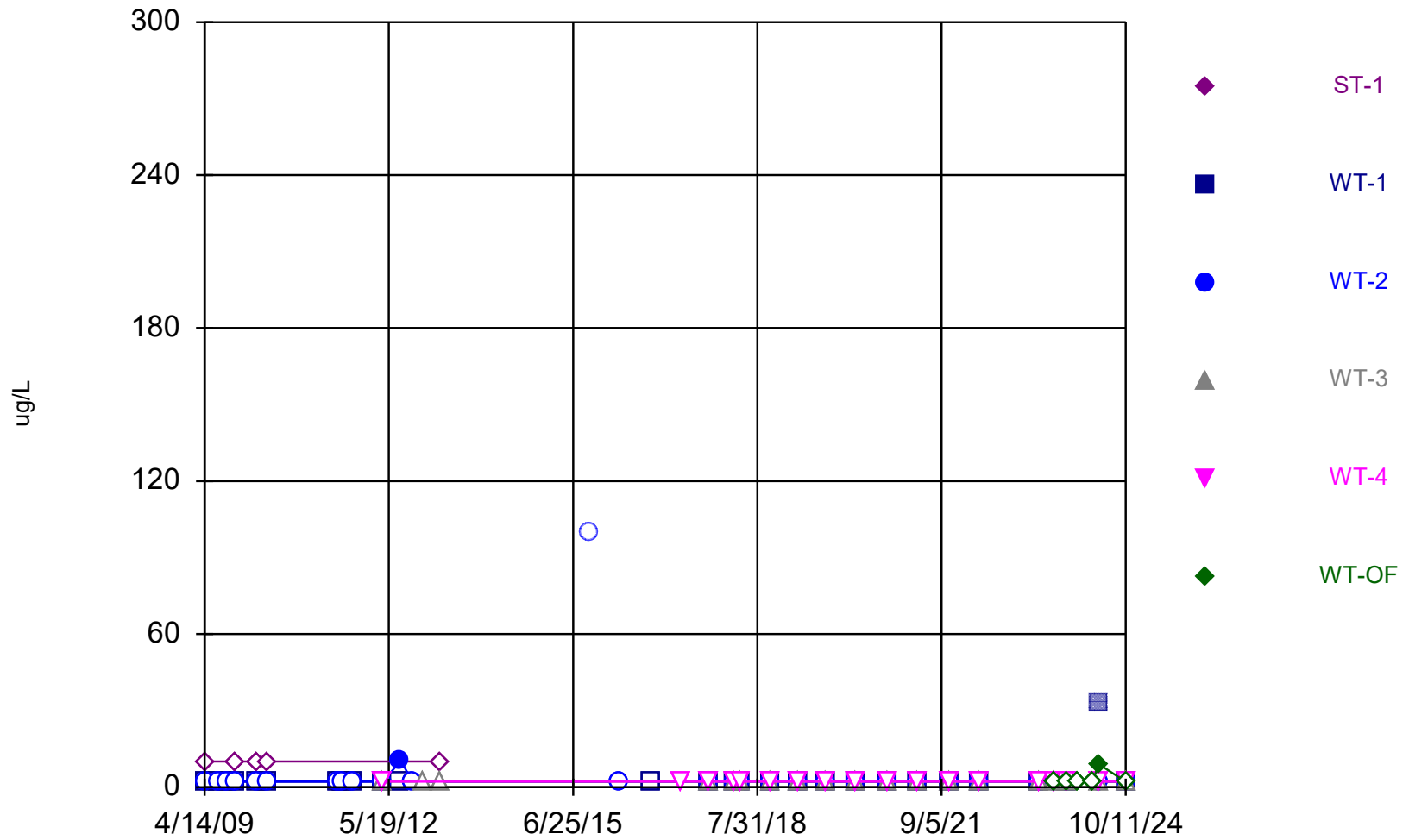
Time Series



Constituent: 1,4-Dichlorobenzene Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

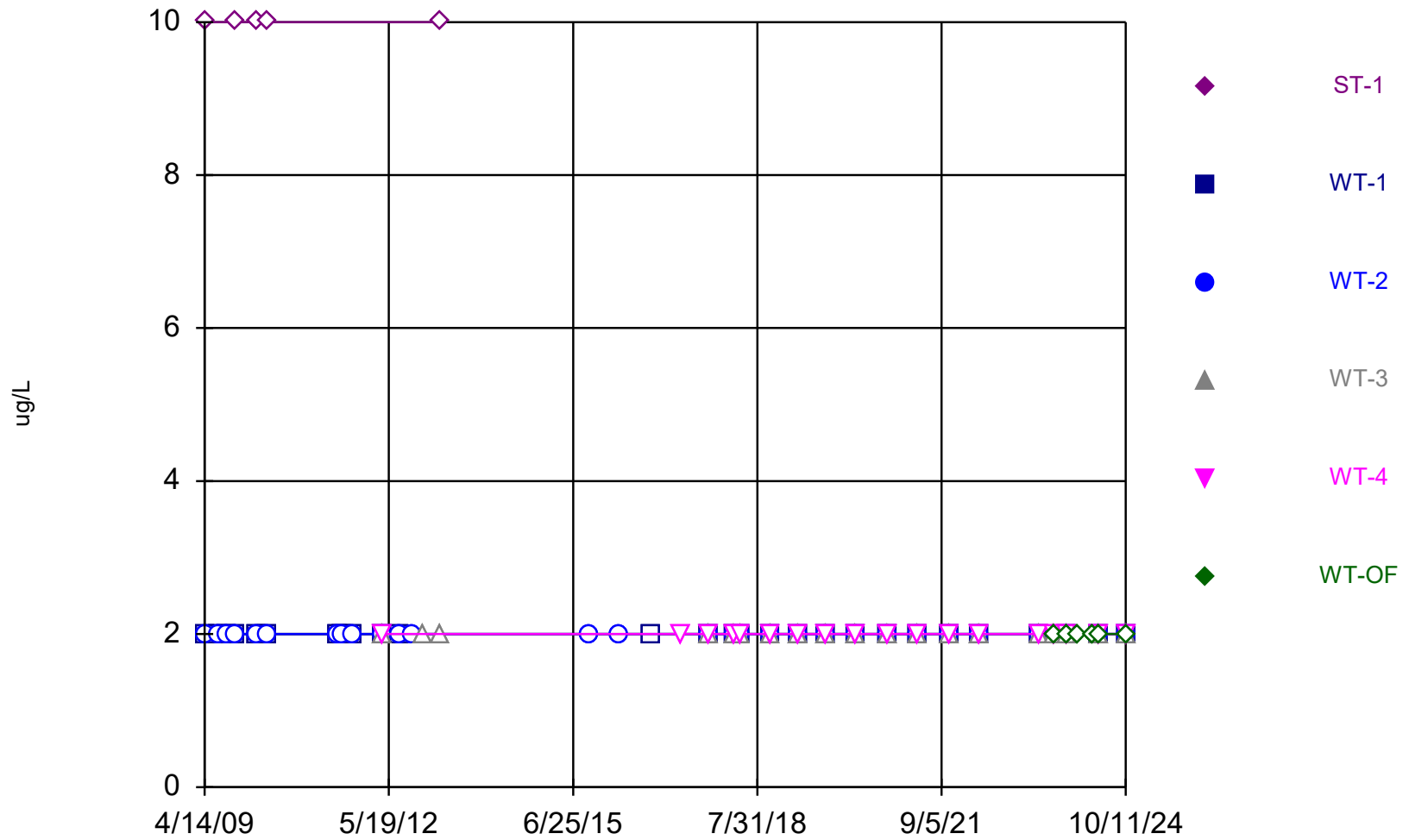
Time Series



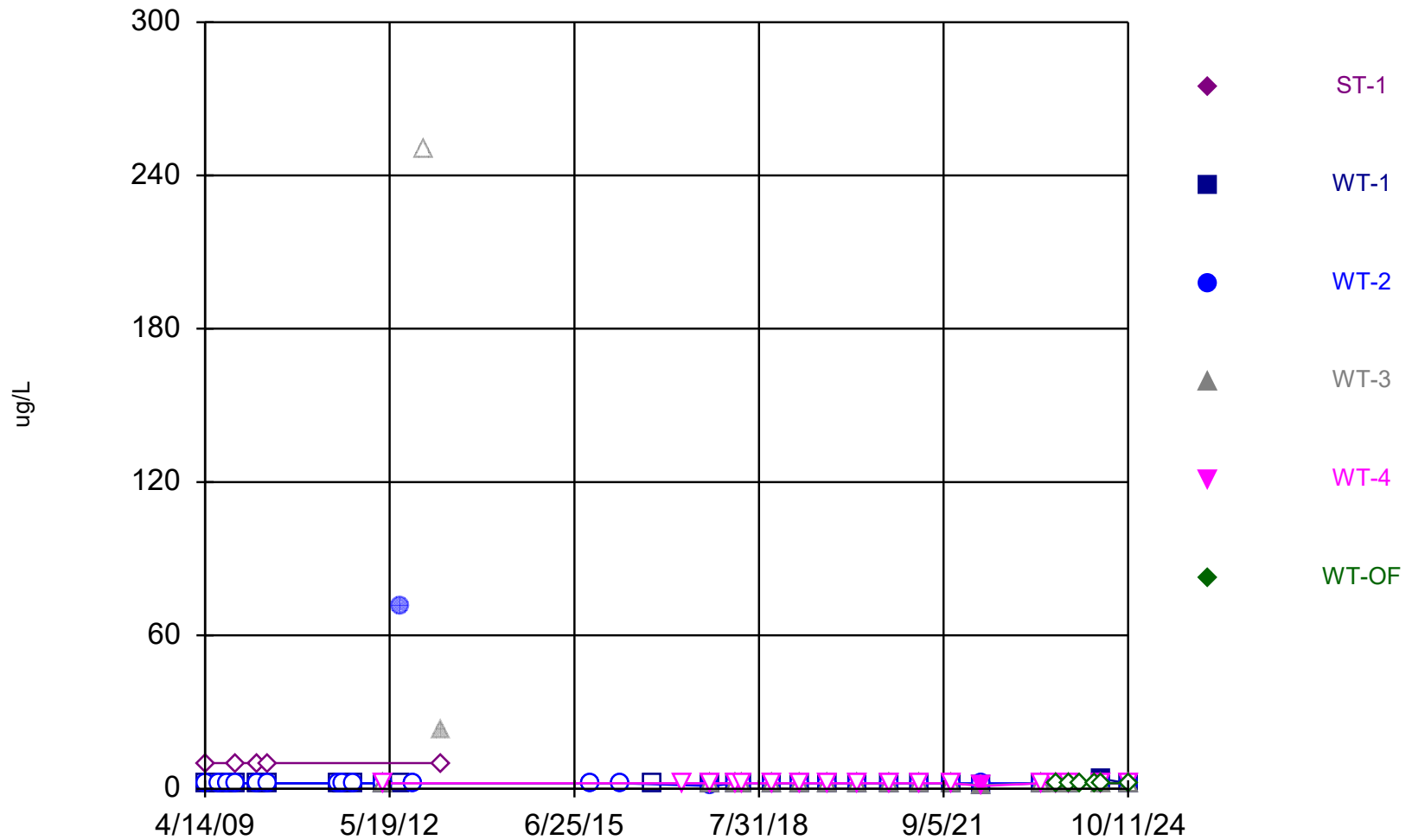
Constituent: 2-Butanone [MEK] Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series

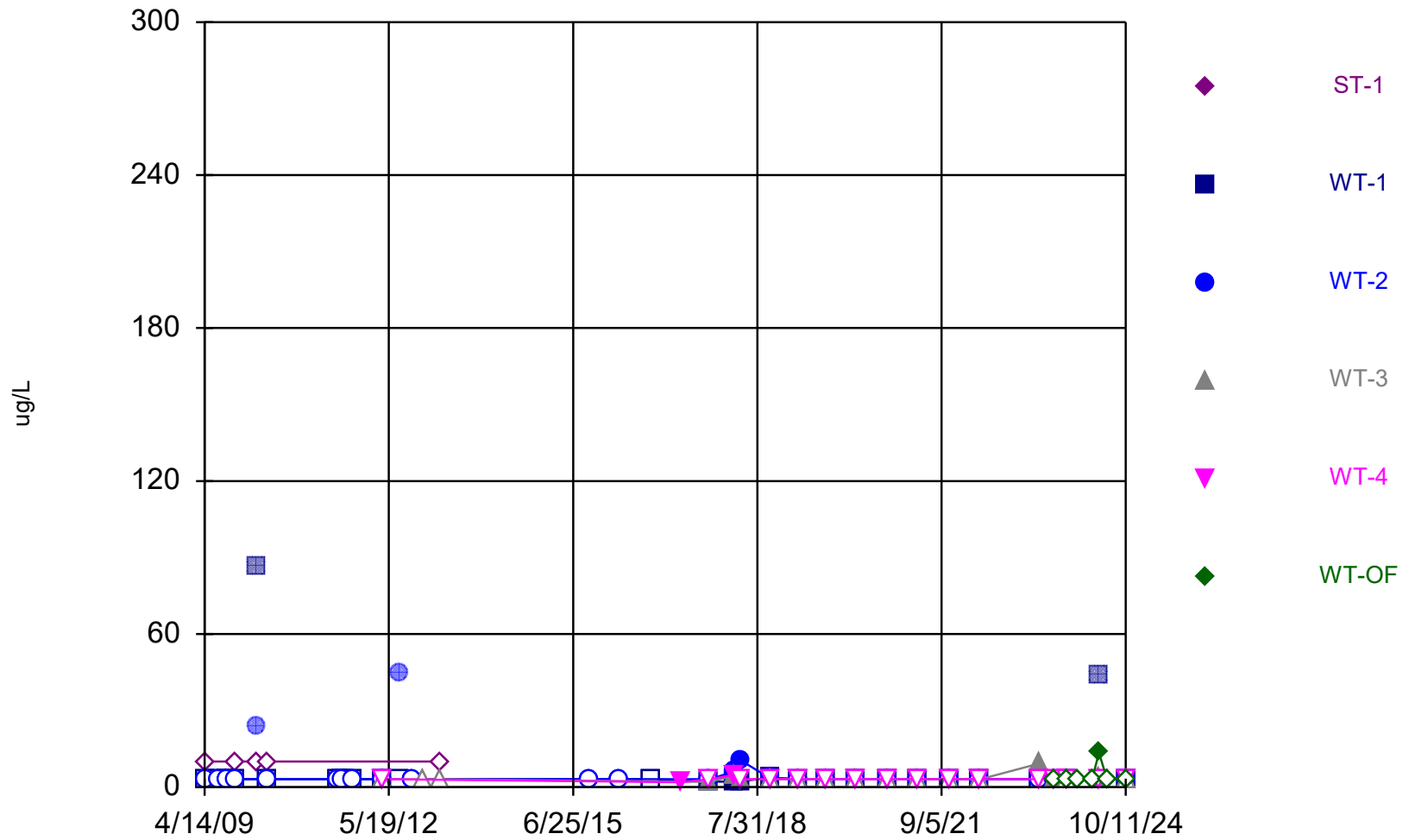


Time Series



Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

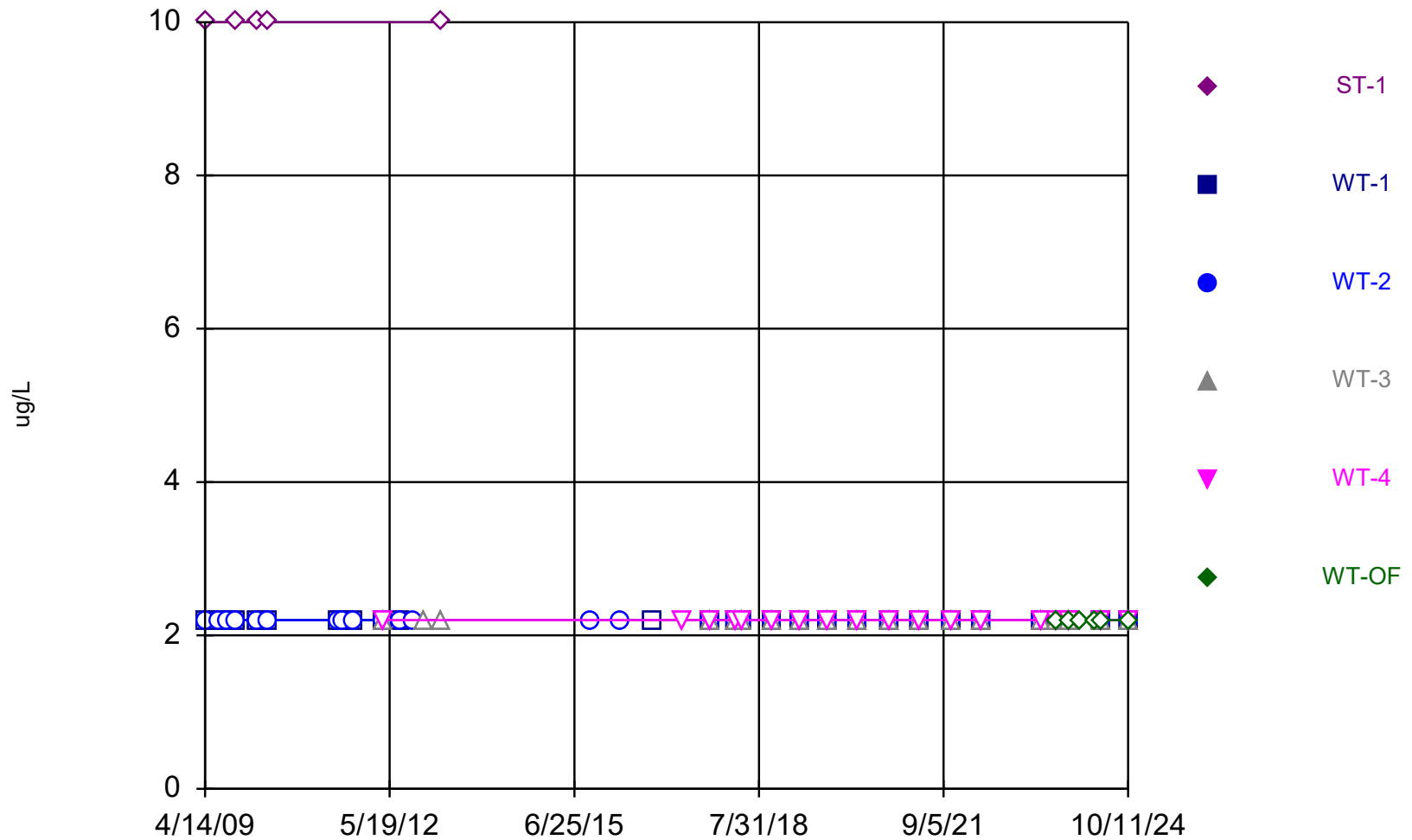
Time Series



Constituent: Acetone Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

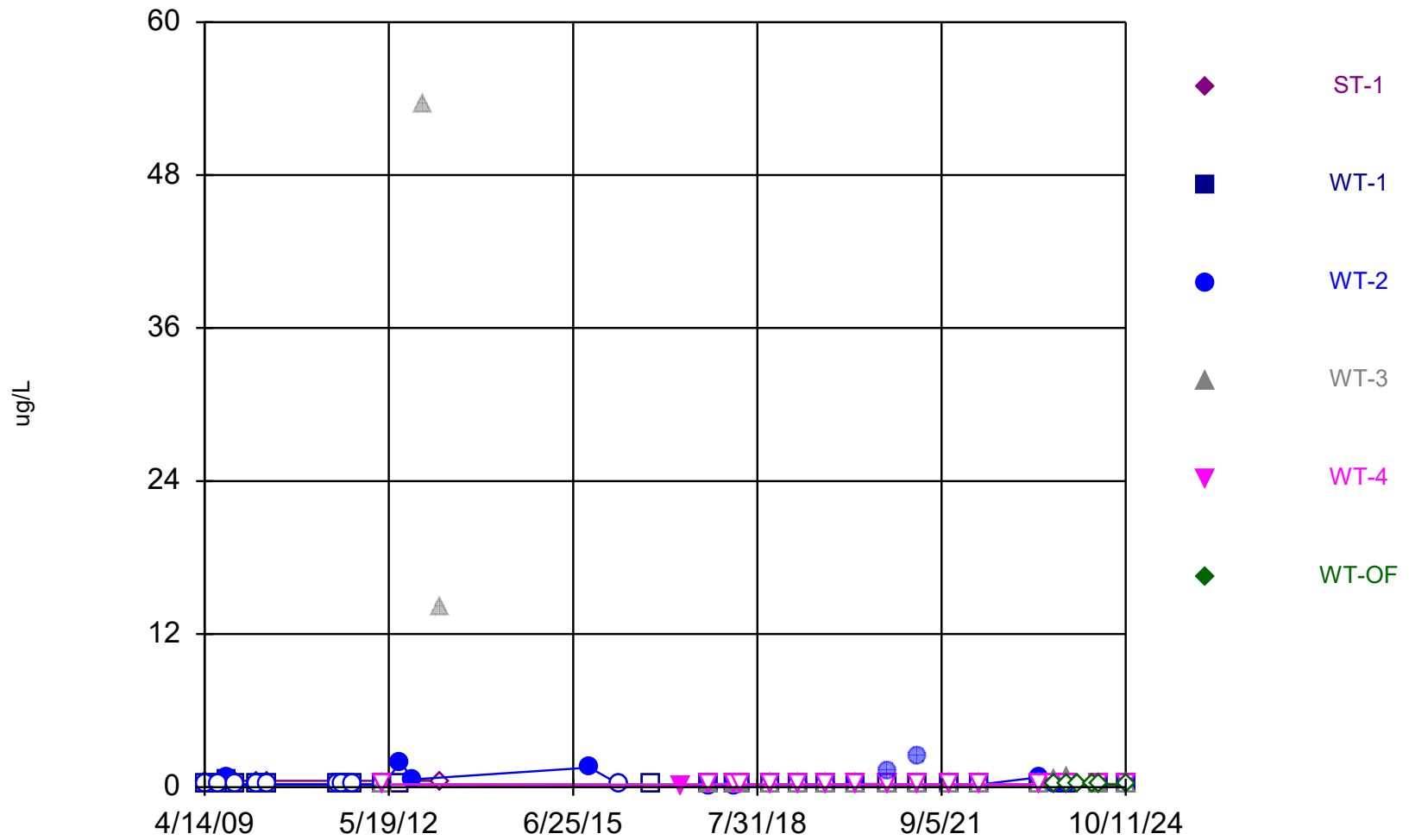
Time Series



Constituent: Acrylonitrile Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

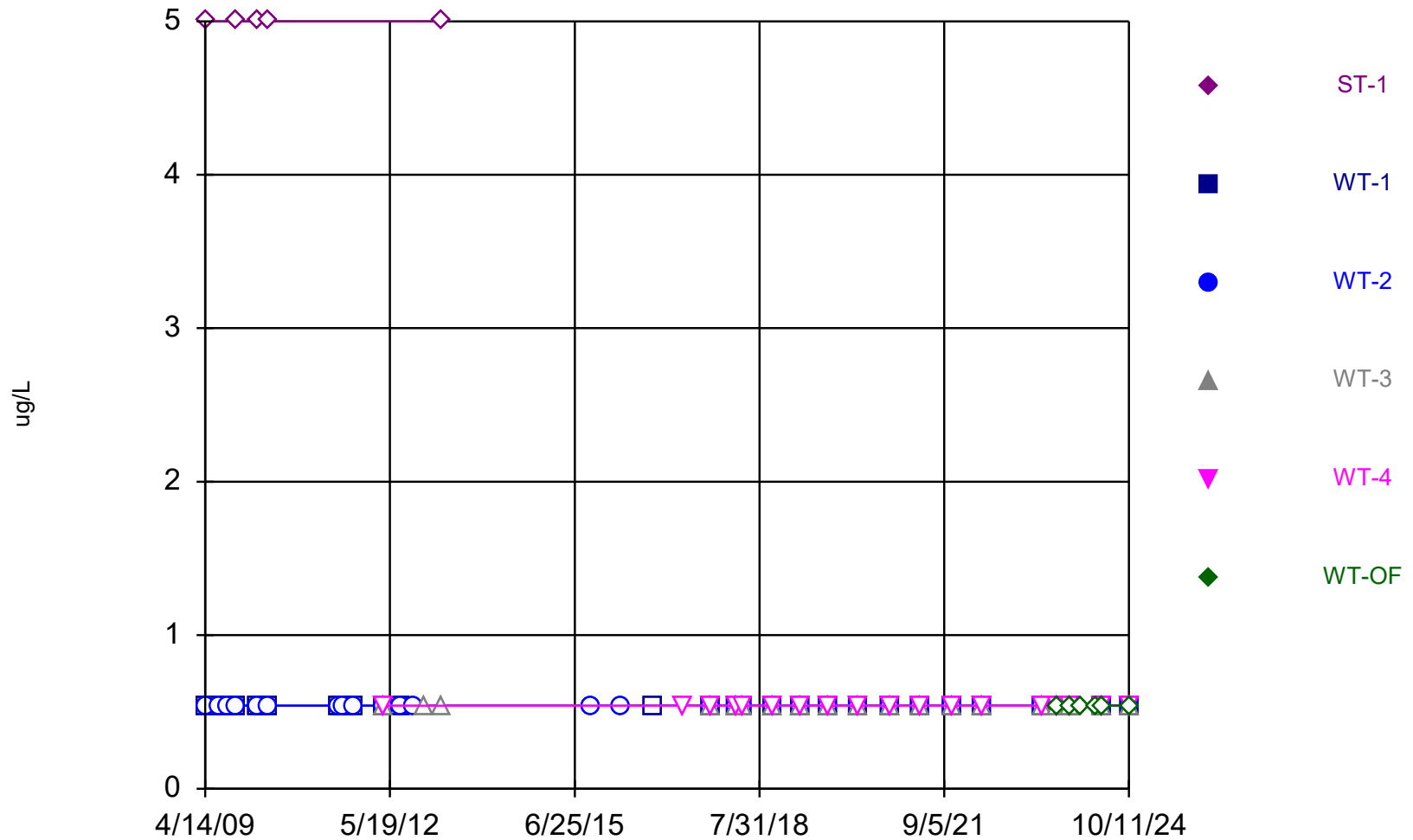
Time Series



Constituent: Benzene Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

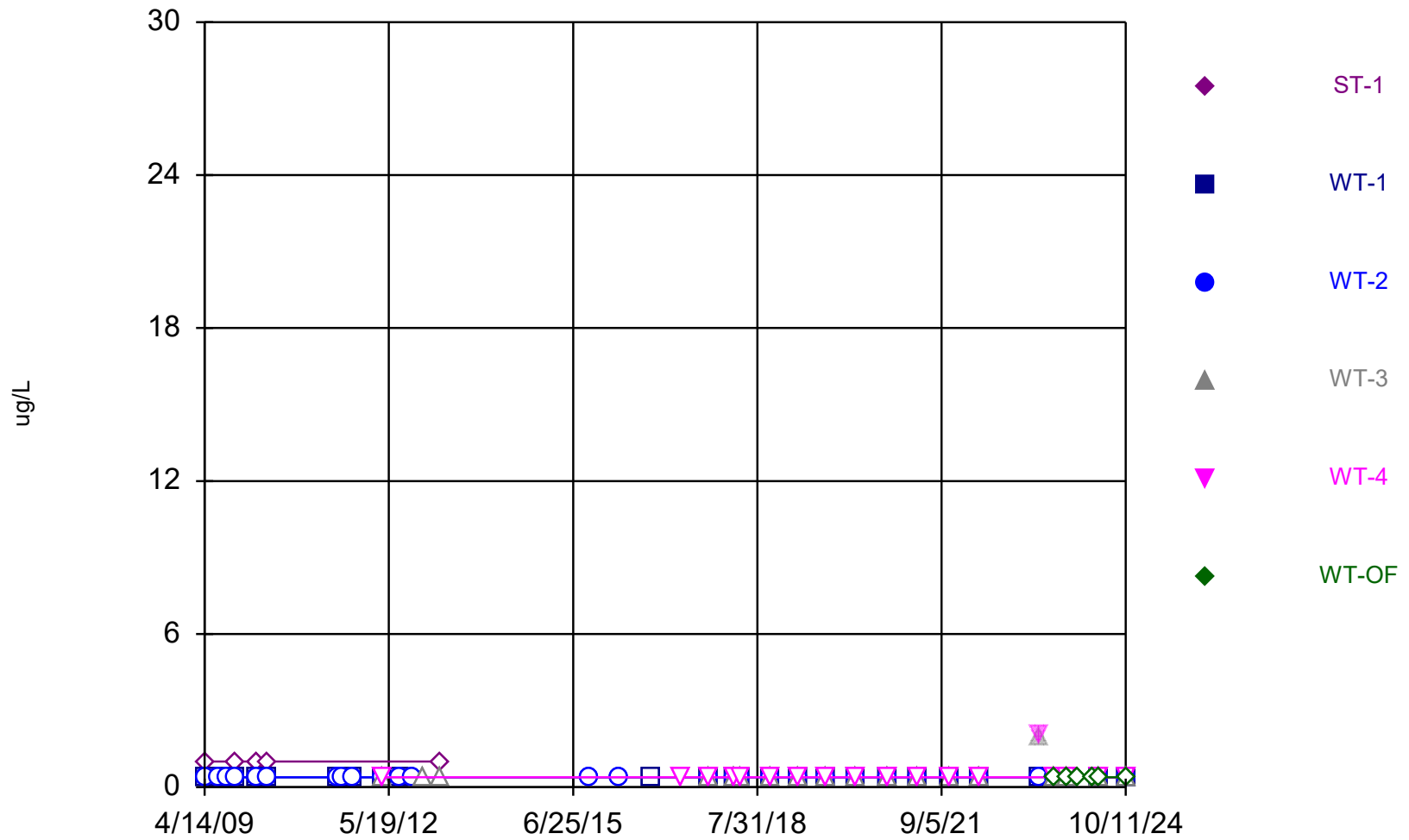
Time Series



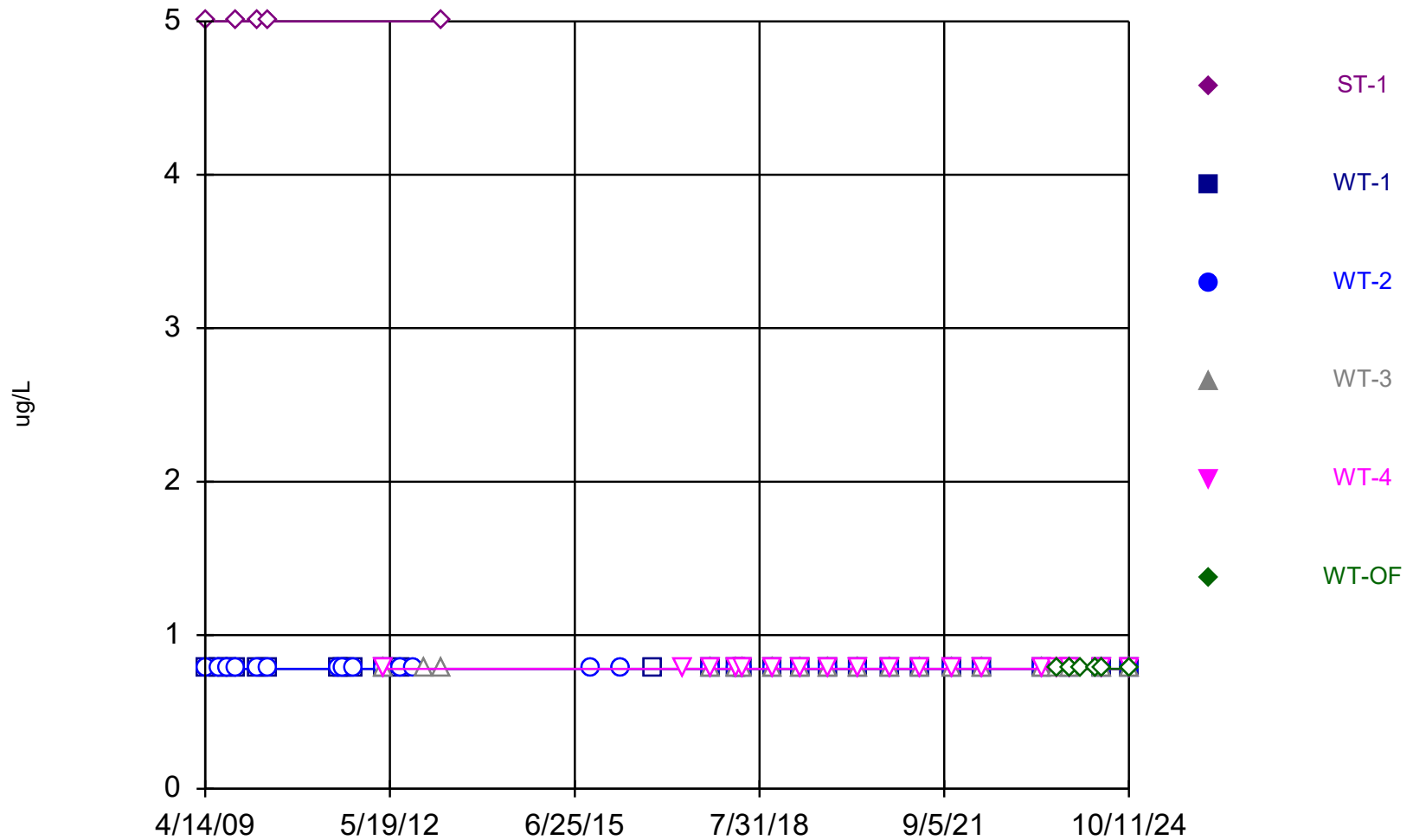
Constituent: Bromochloromethane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



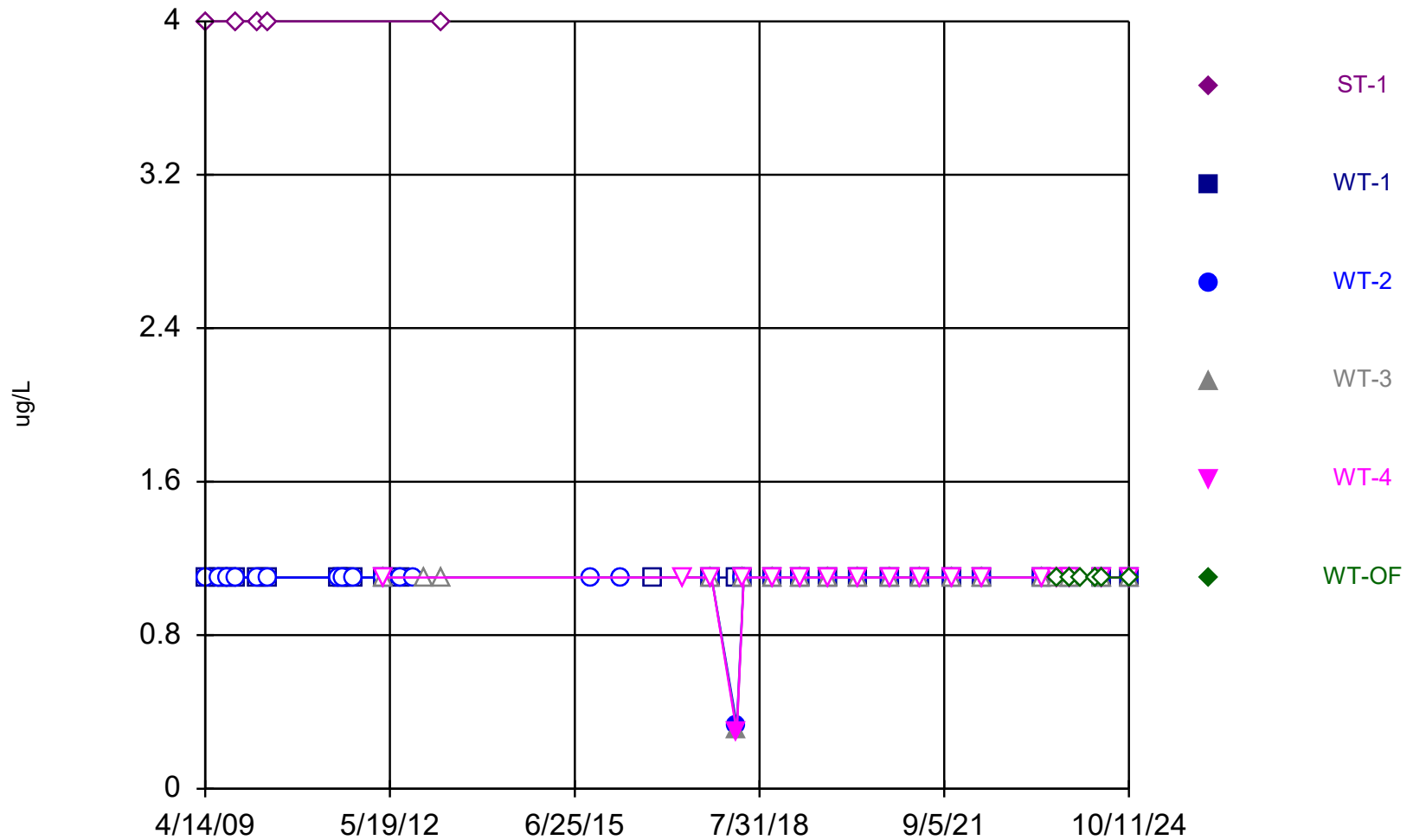
Time Series



Constituent: Bromoform Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

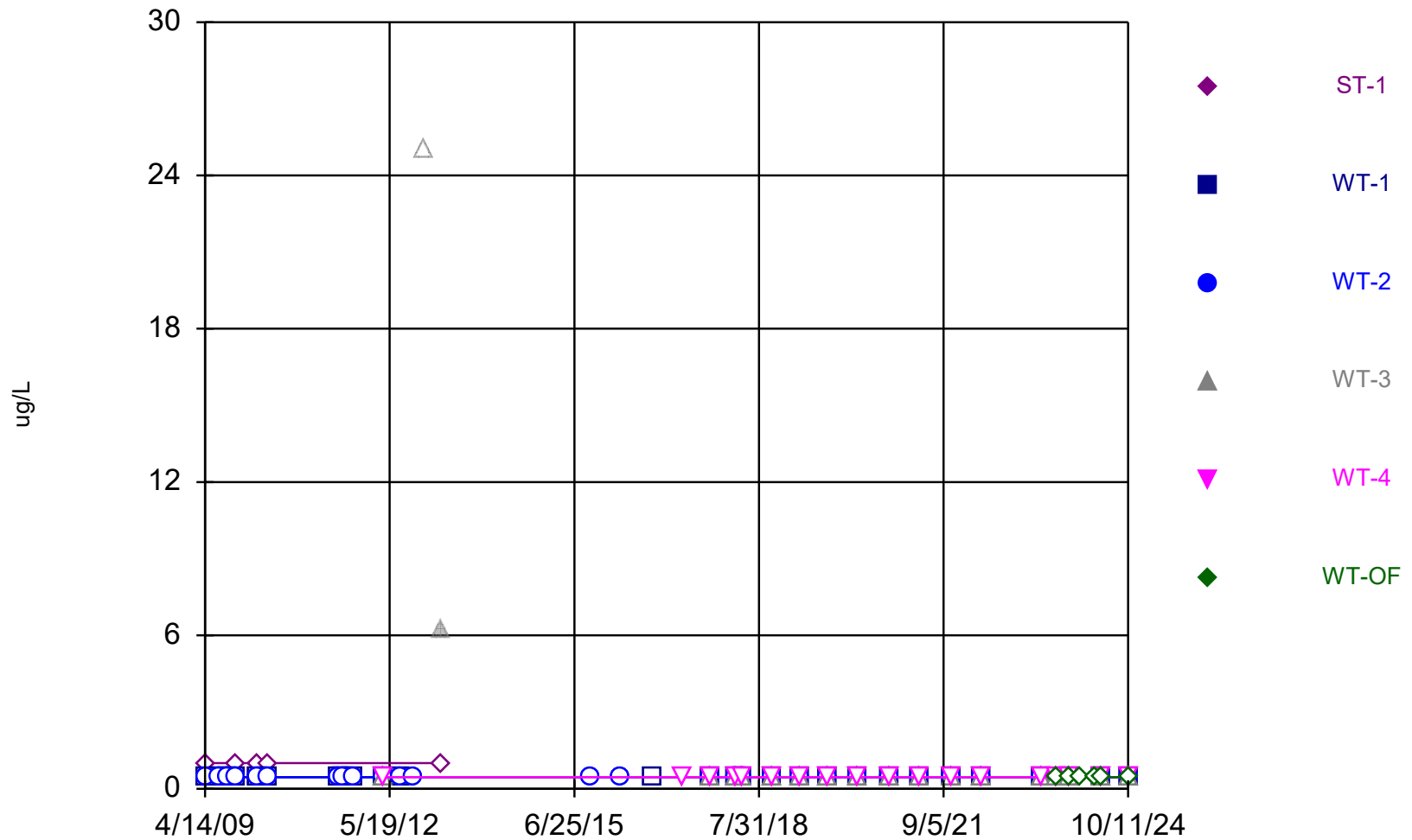
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series

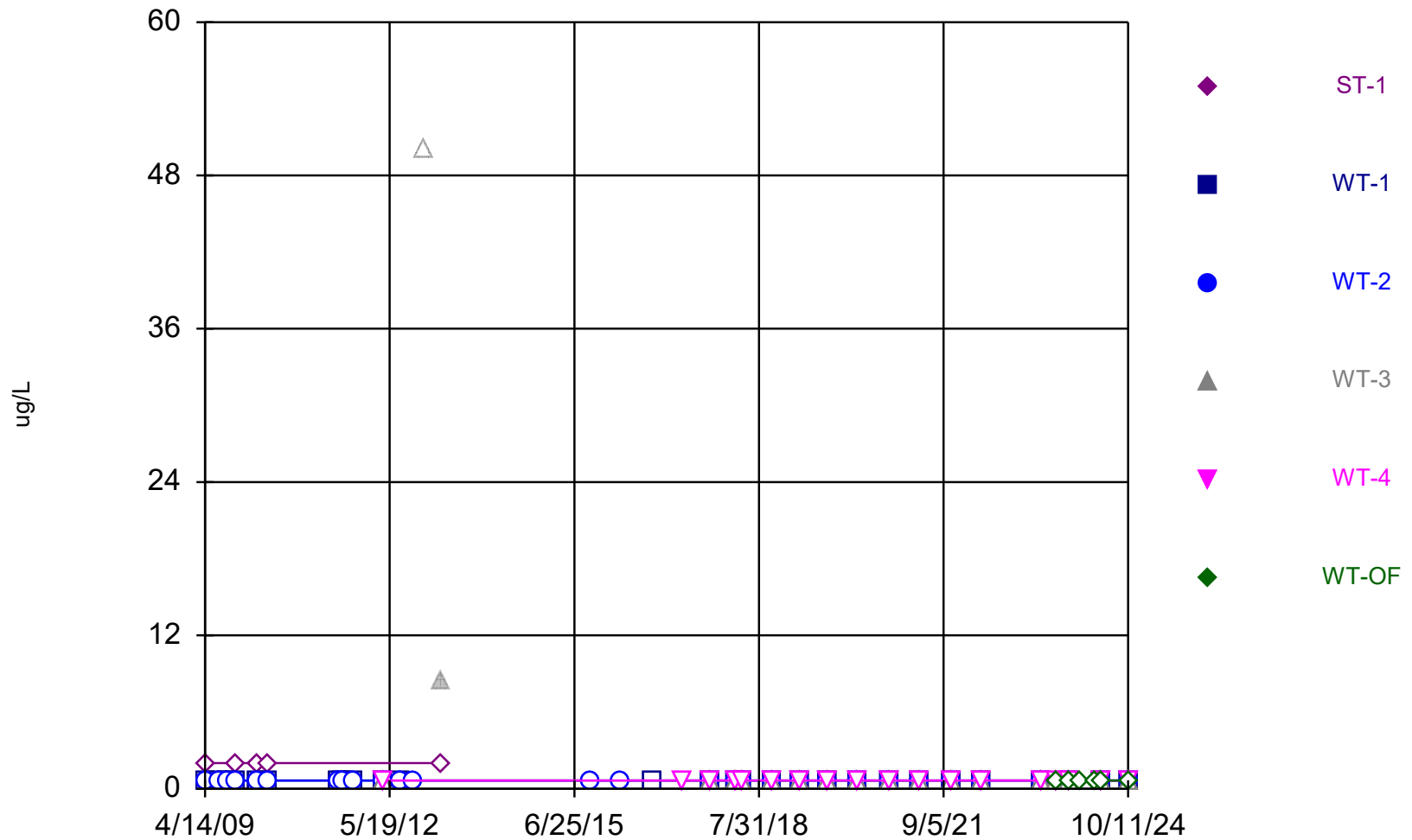


Constituent: Bromomethane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



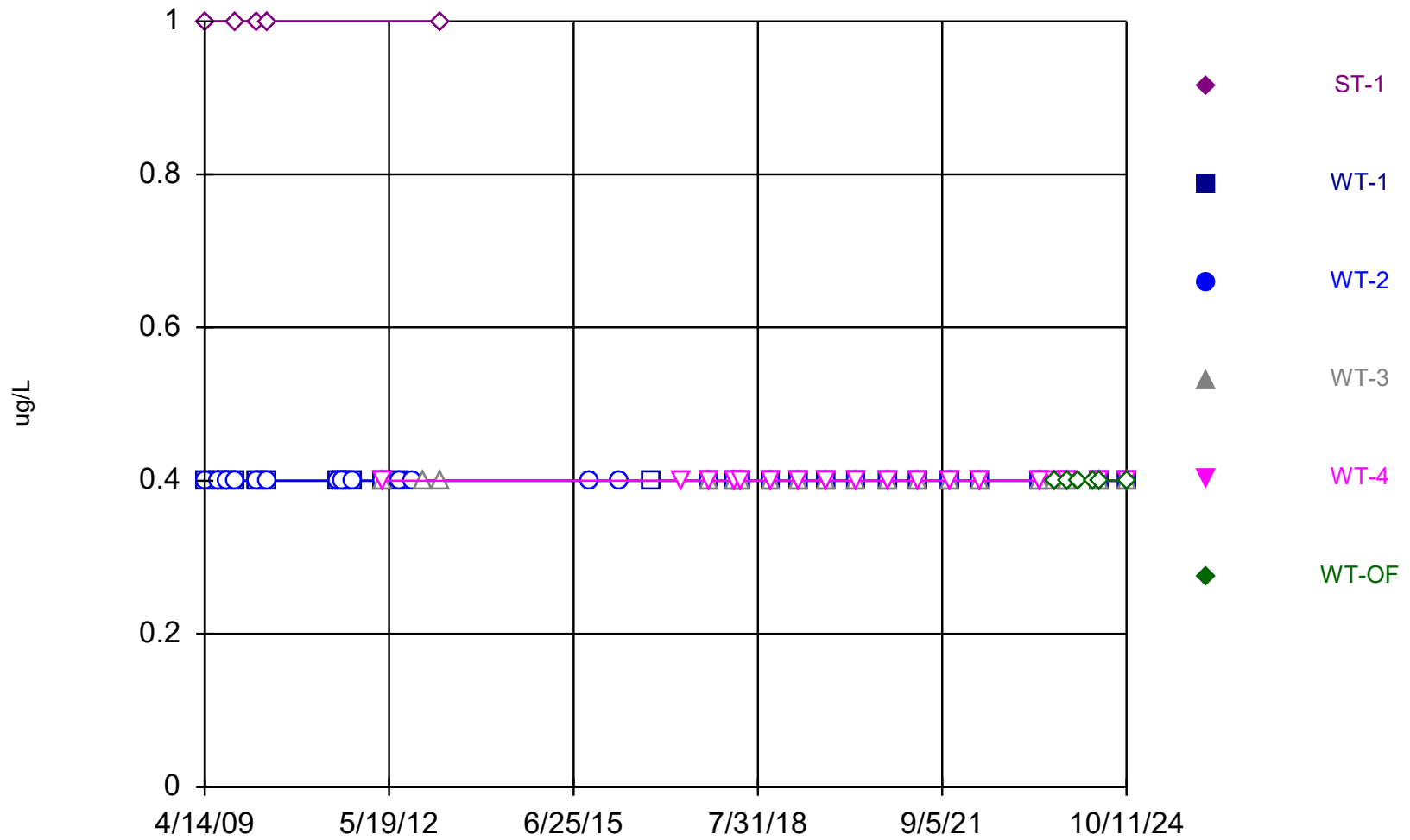
Time Series



Constituent: Carbon Tetrachloride Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

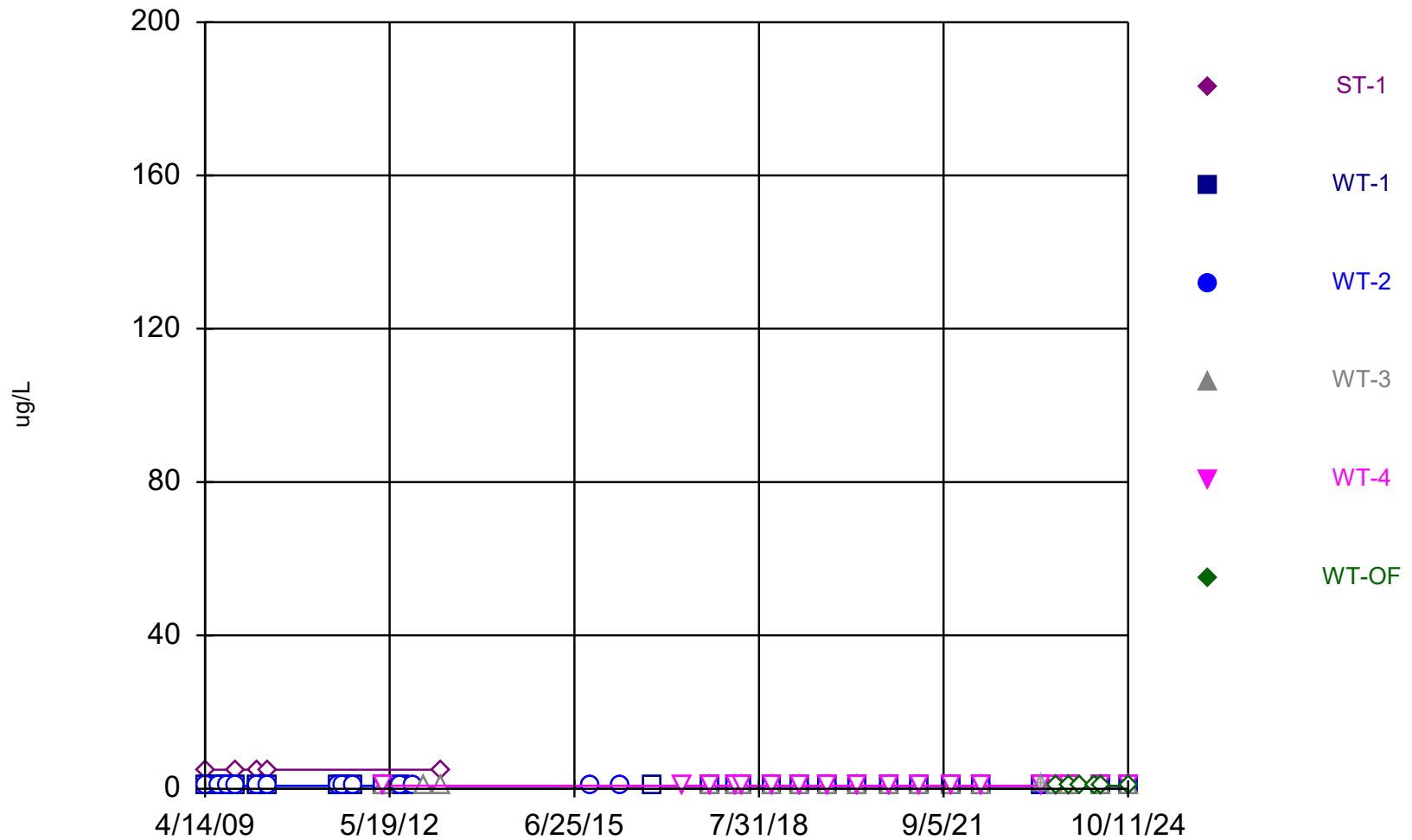
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series

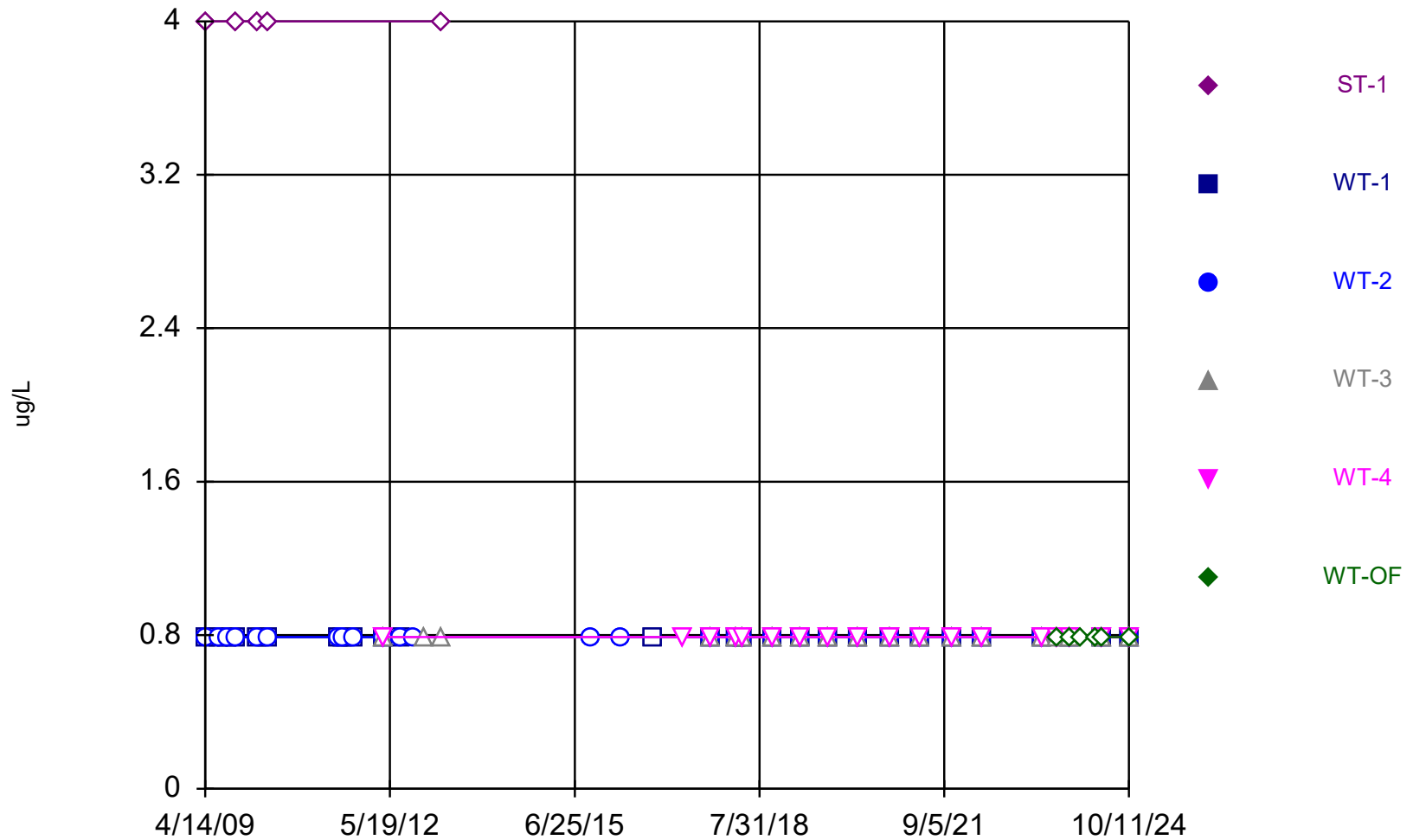


Constituent: Chlorobenzene Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series

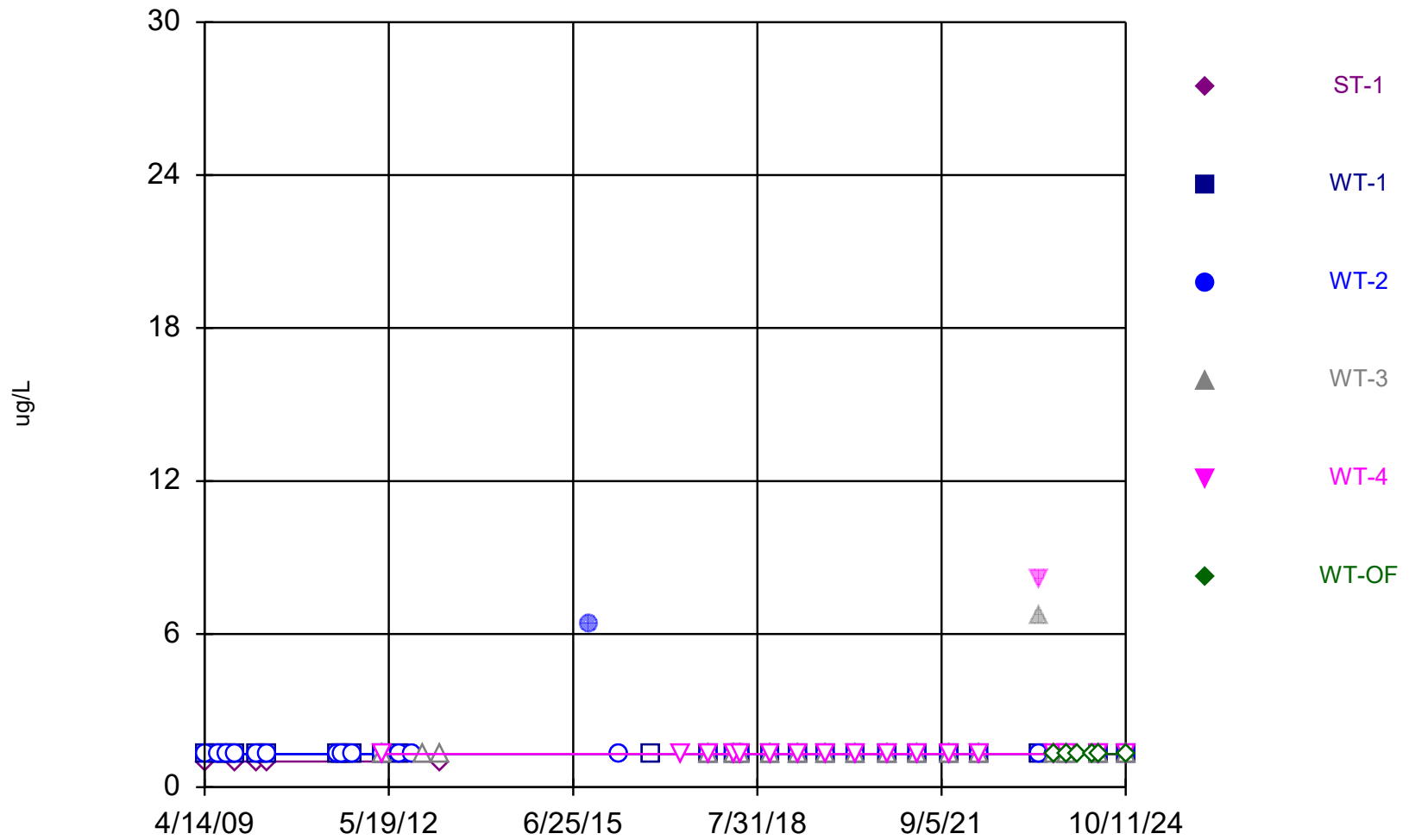


Time Series



Constituent: Chloroethane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

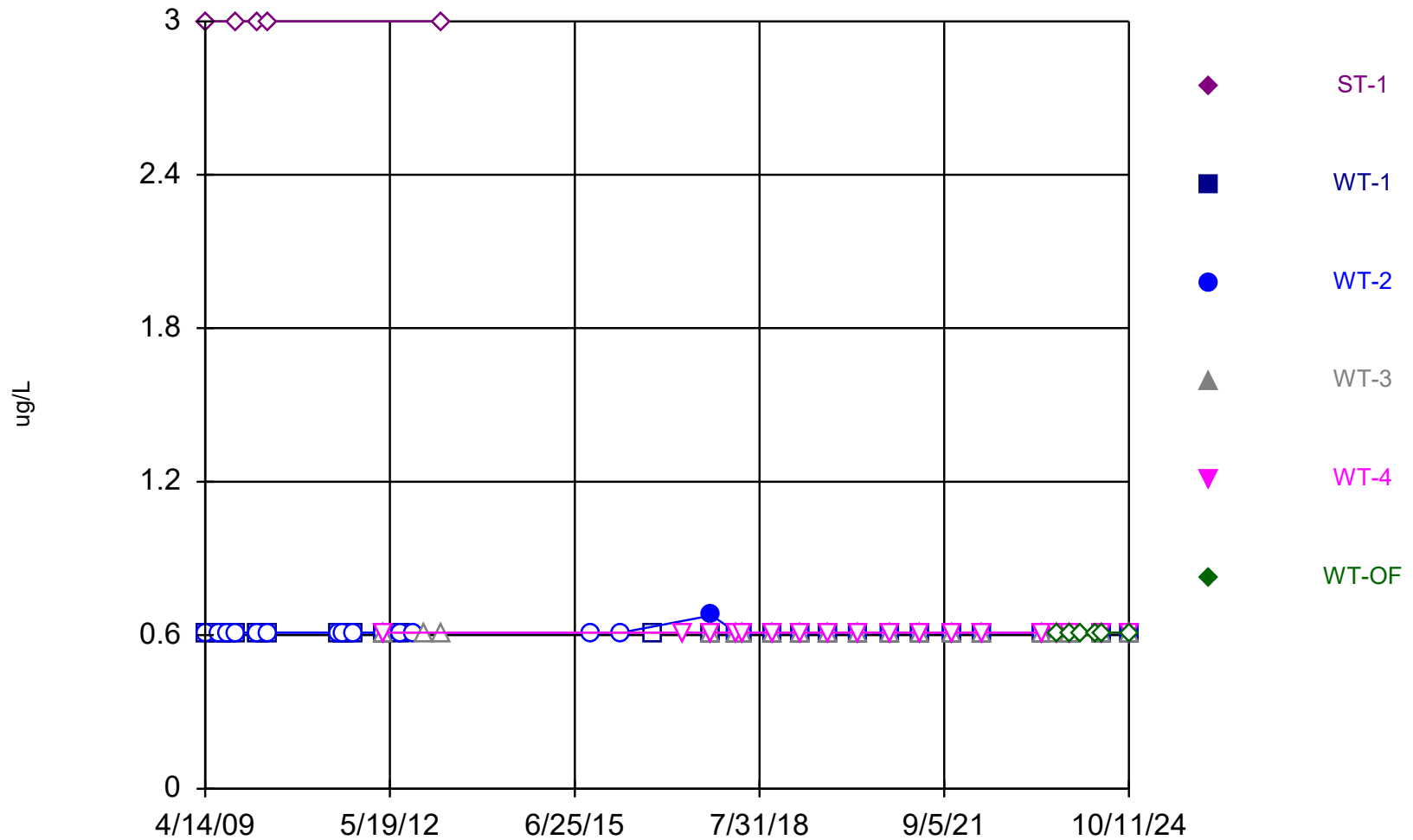
Time Series



Constituent: Chloroform Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

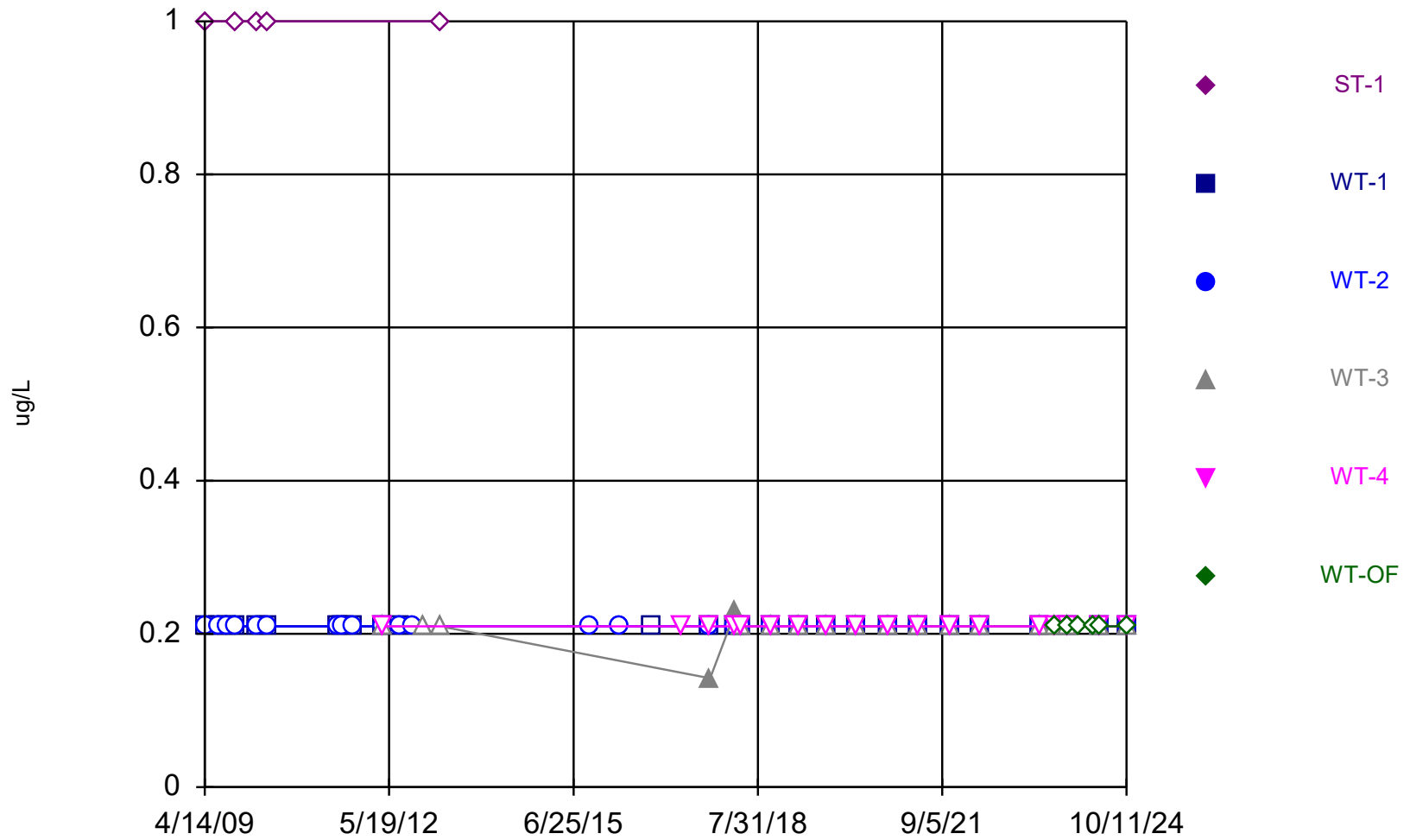
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



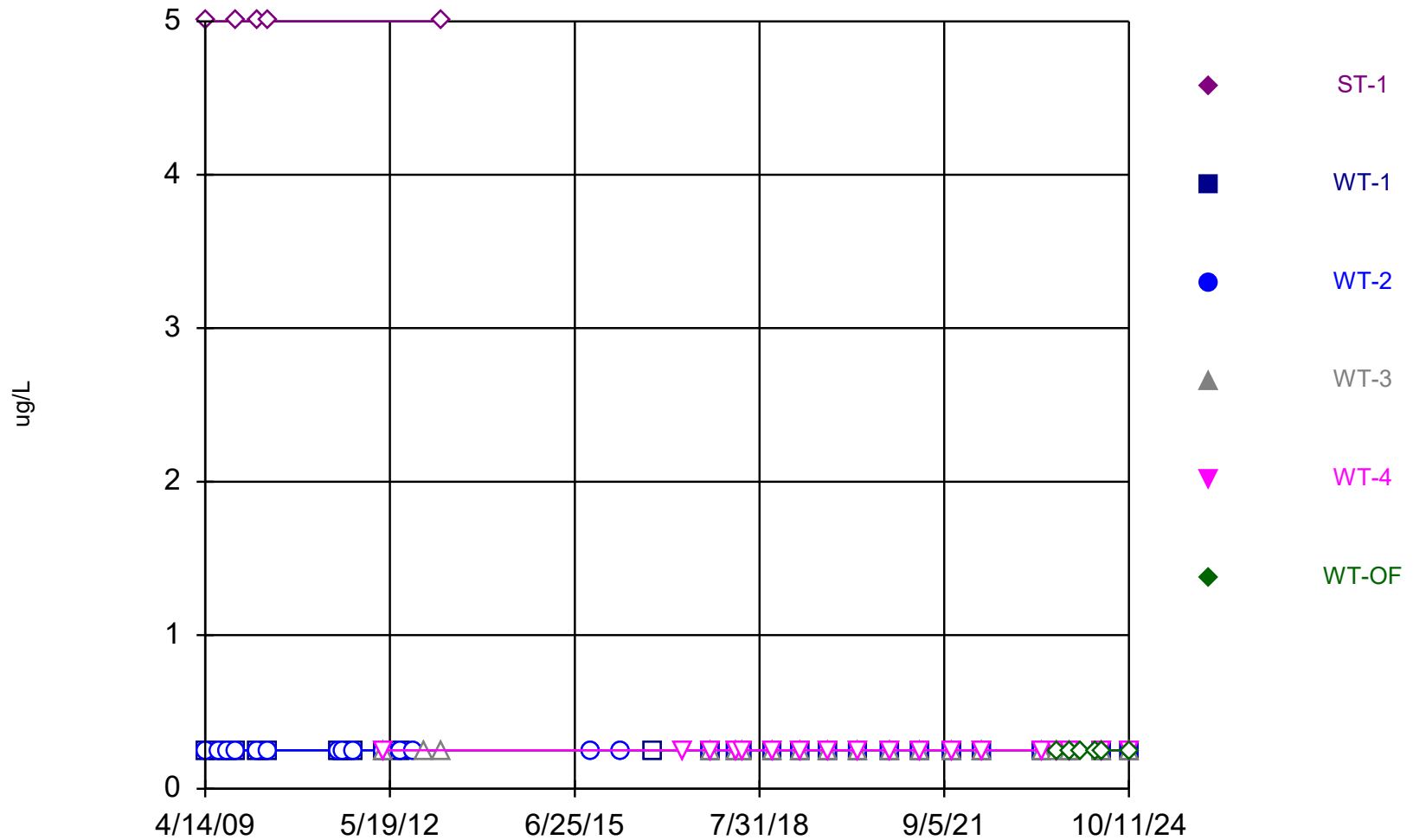
Constituent: Chloromethane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series

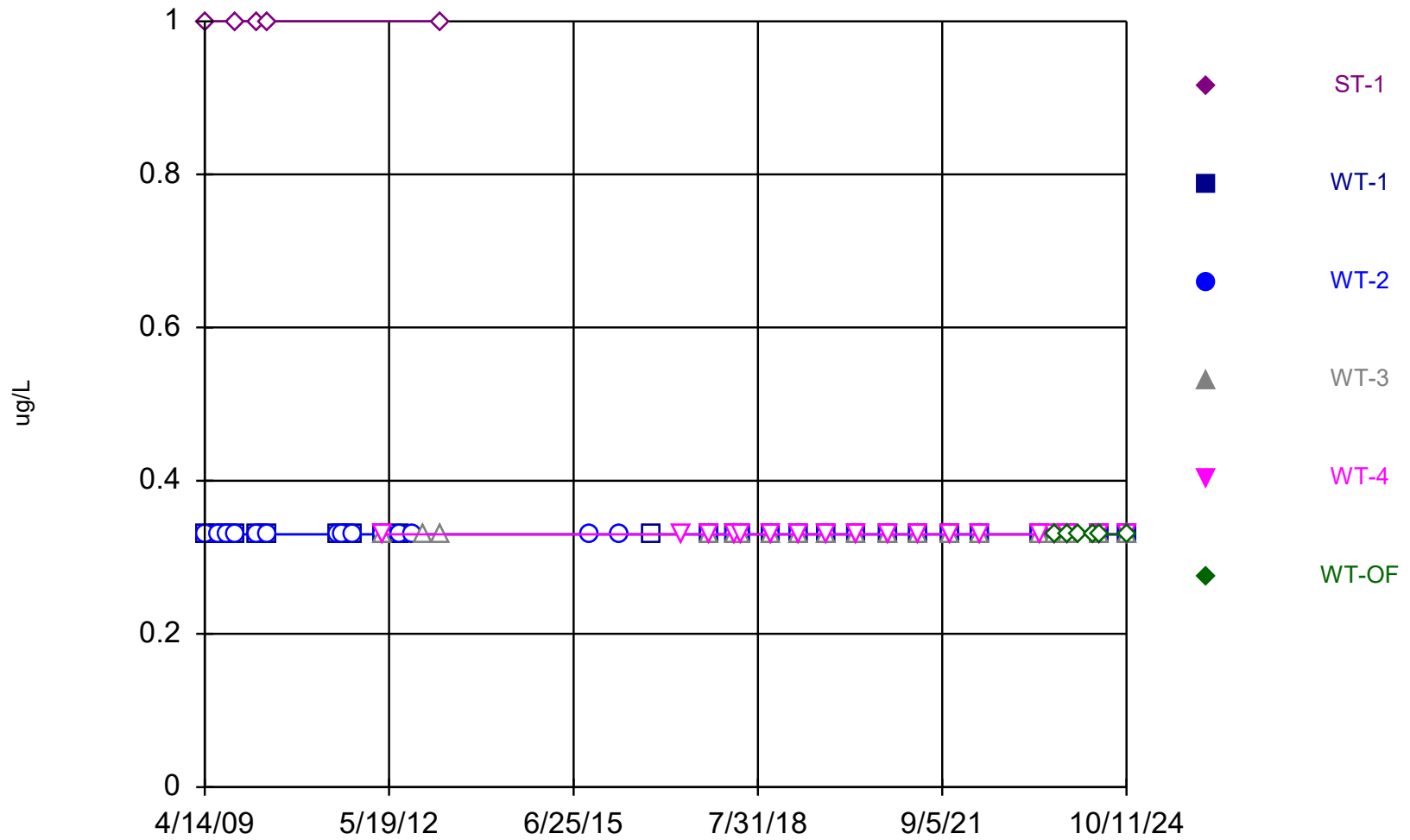


Constituent: cis-1,2-Dichloroethene Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



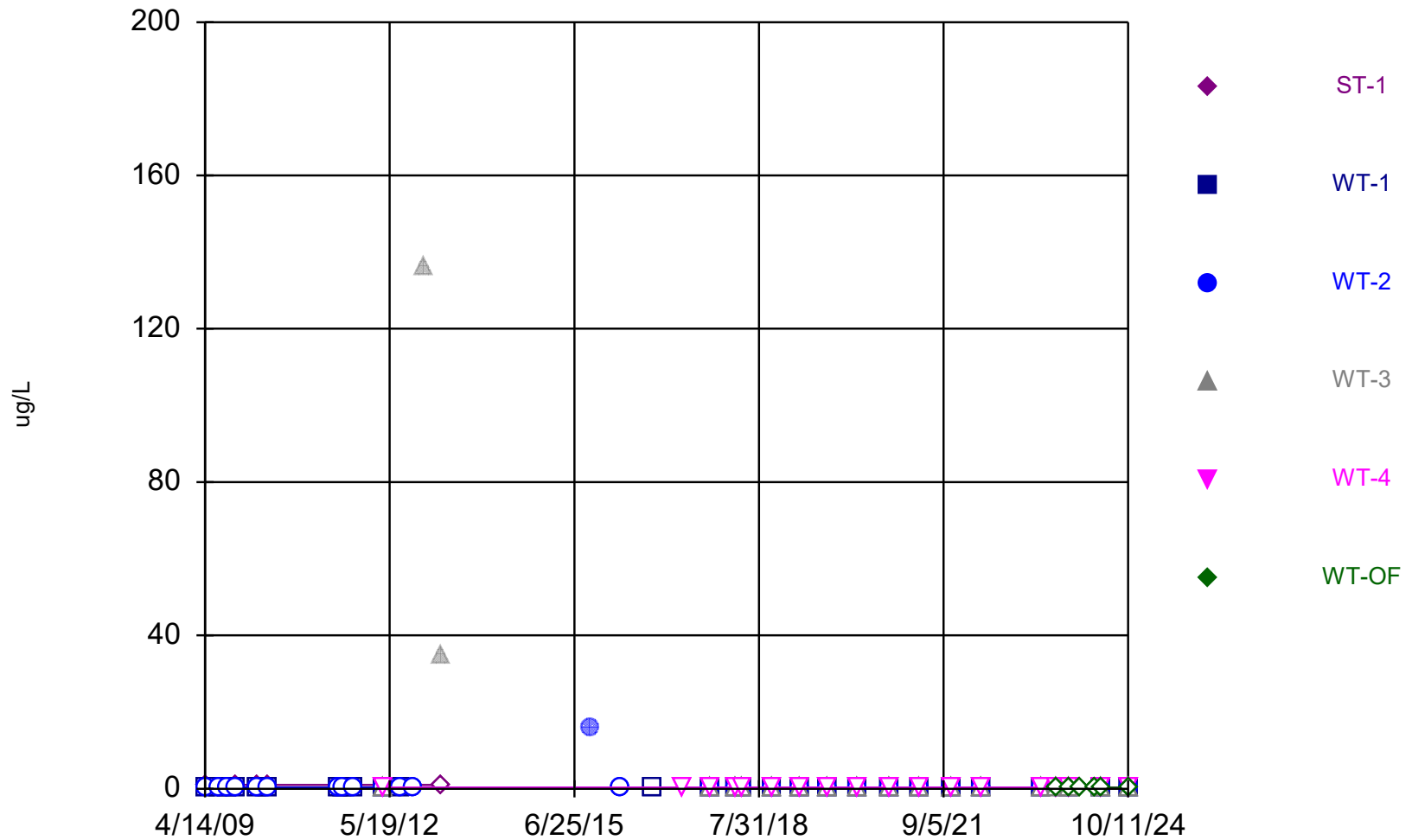
Time Series



Constituent: Dibromomethane Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

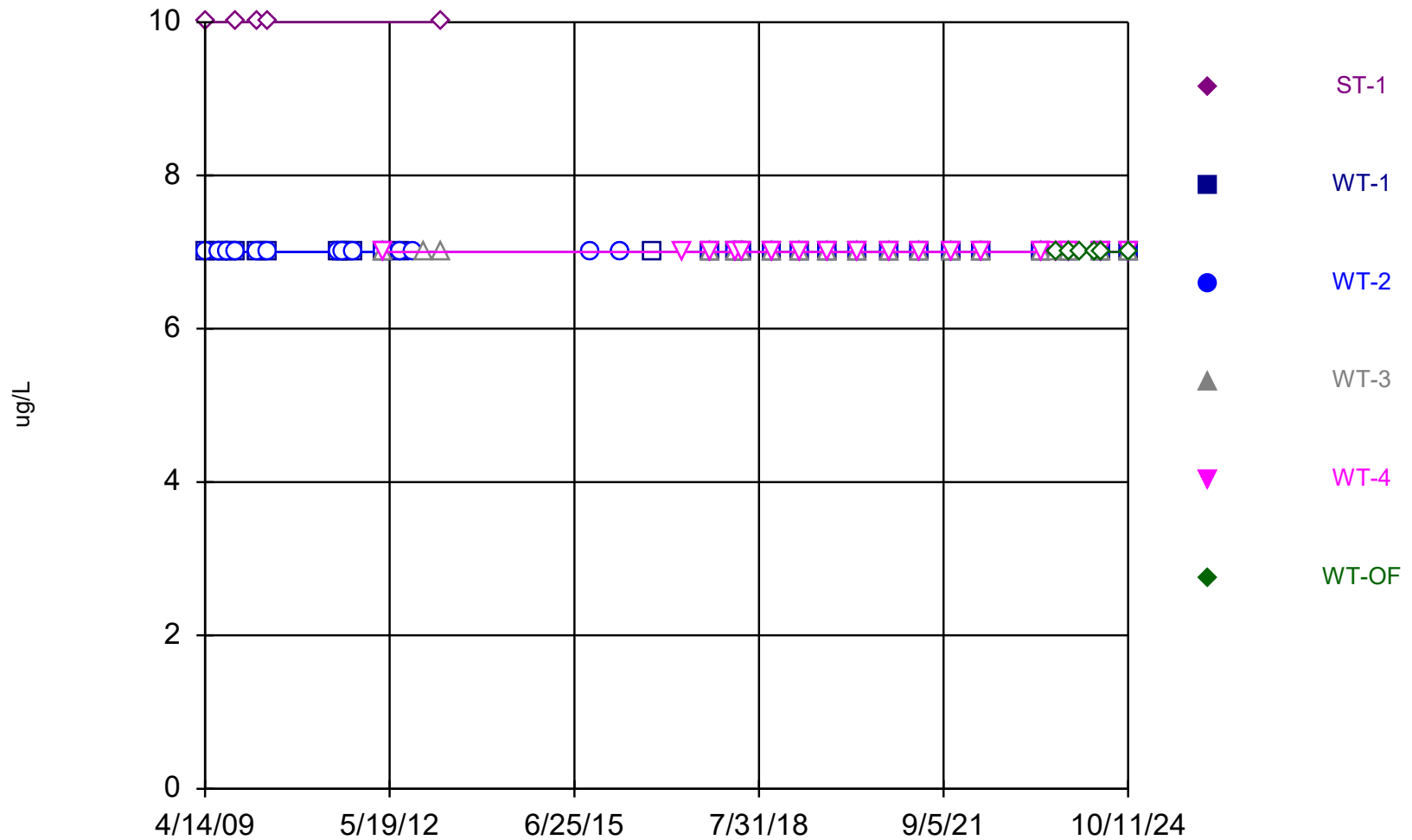
Time Series



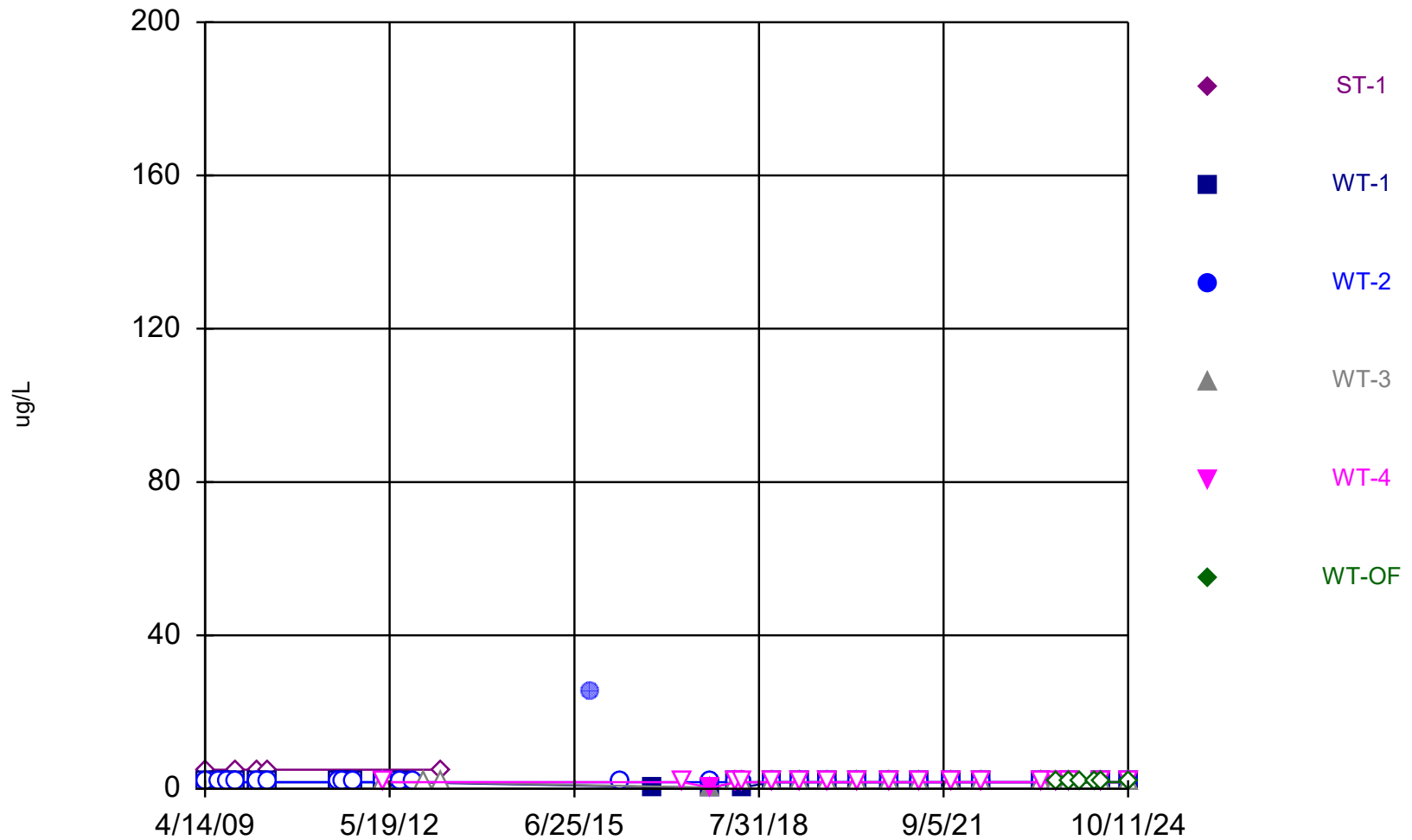
Constituent: Ethylbenzene Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



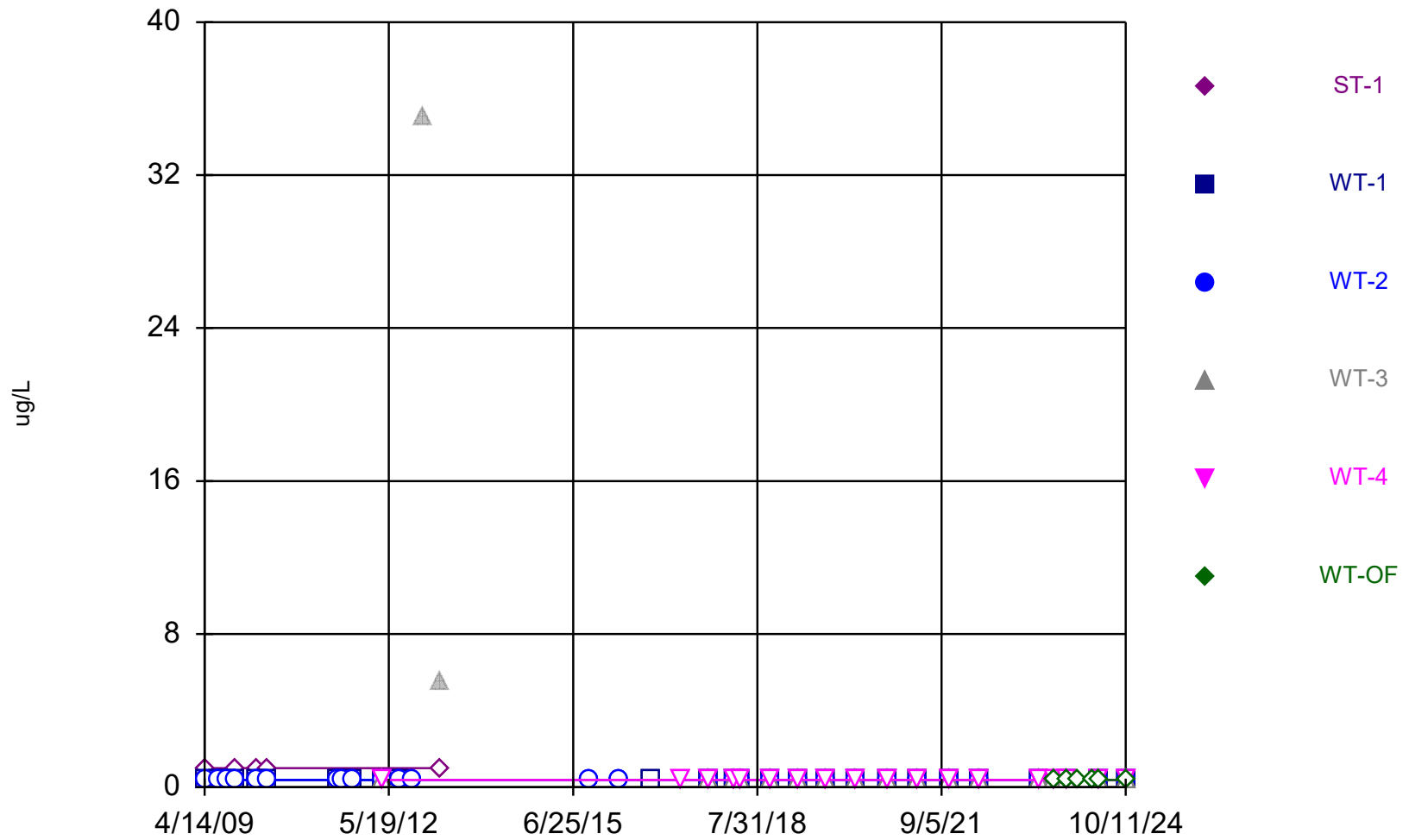
Time Series



Constituent: Methylene Chloride Analysis Run 1/21/2025 4:50 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

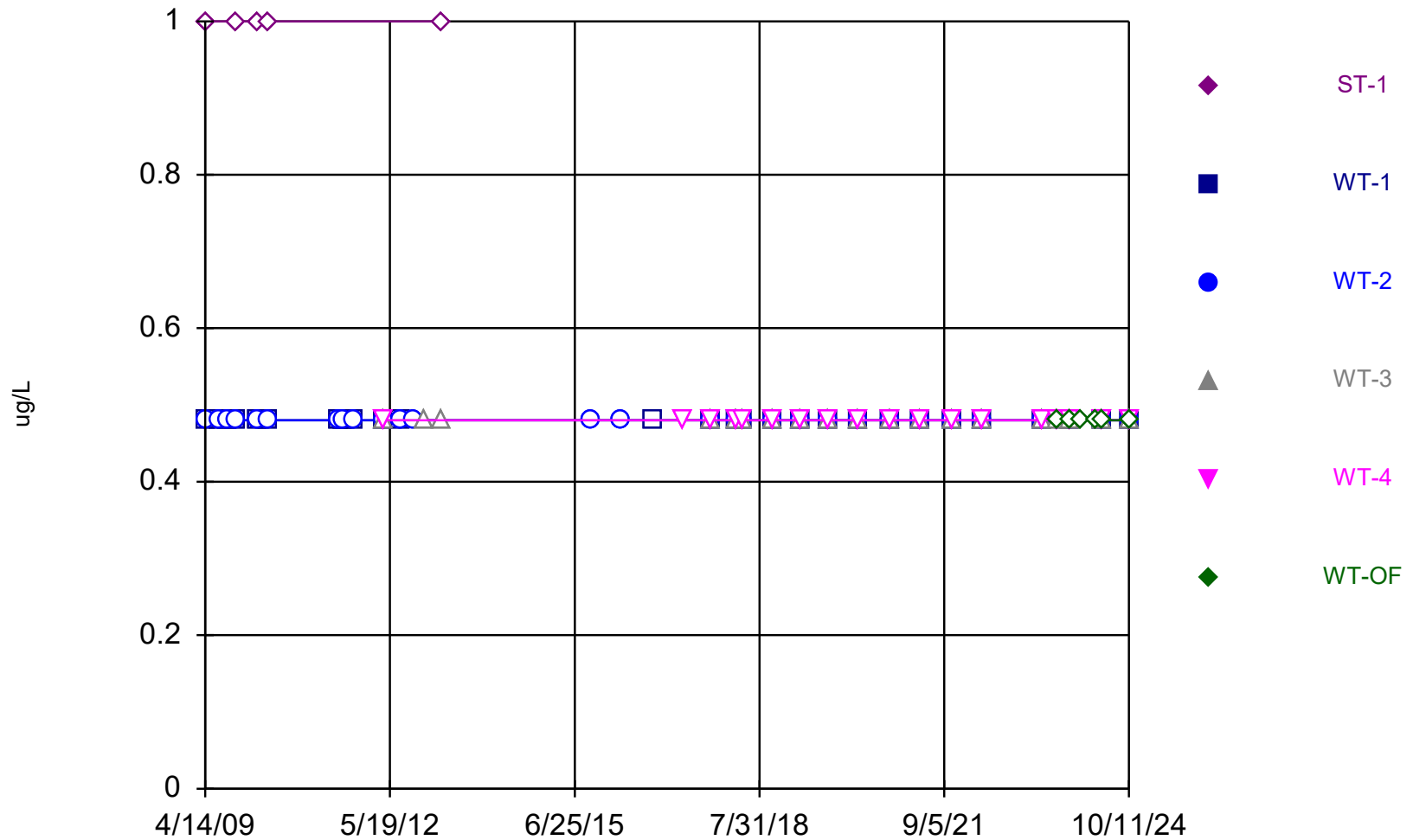
Time Series



Constituent: Styrene Analysis Run 1/21/2025 4:51 PM View: 02_GU_Organics

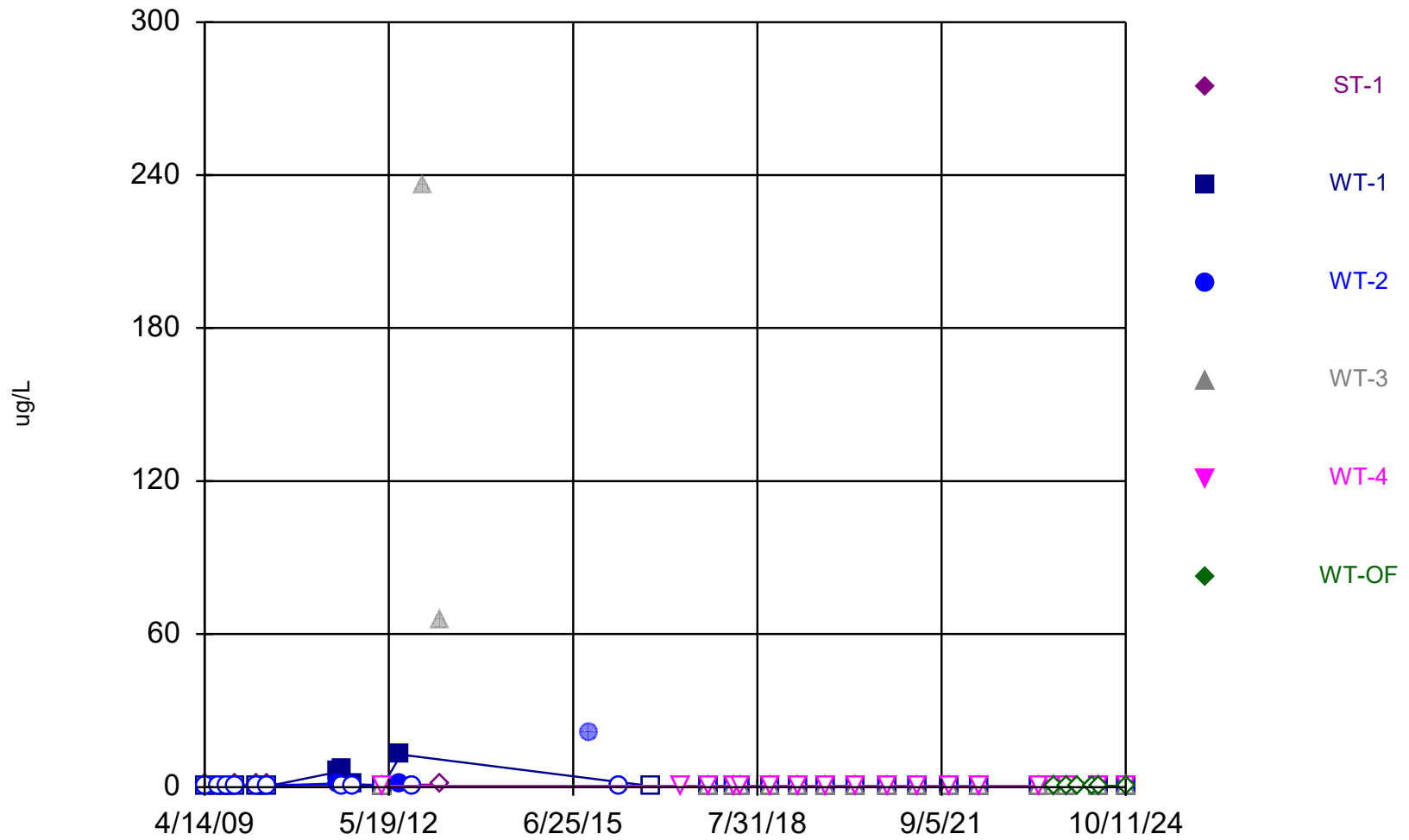
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: Tetrachloroethene Analysis Run 1/21/2025 4:51 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

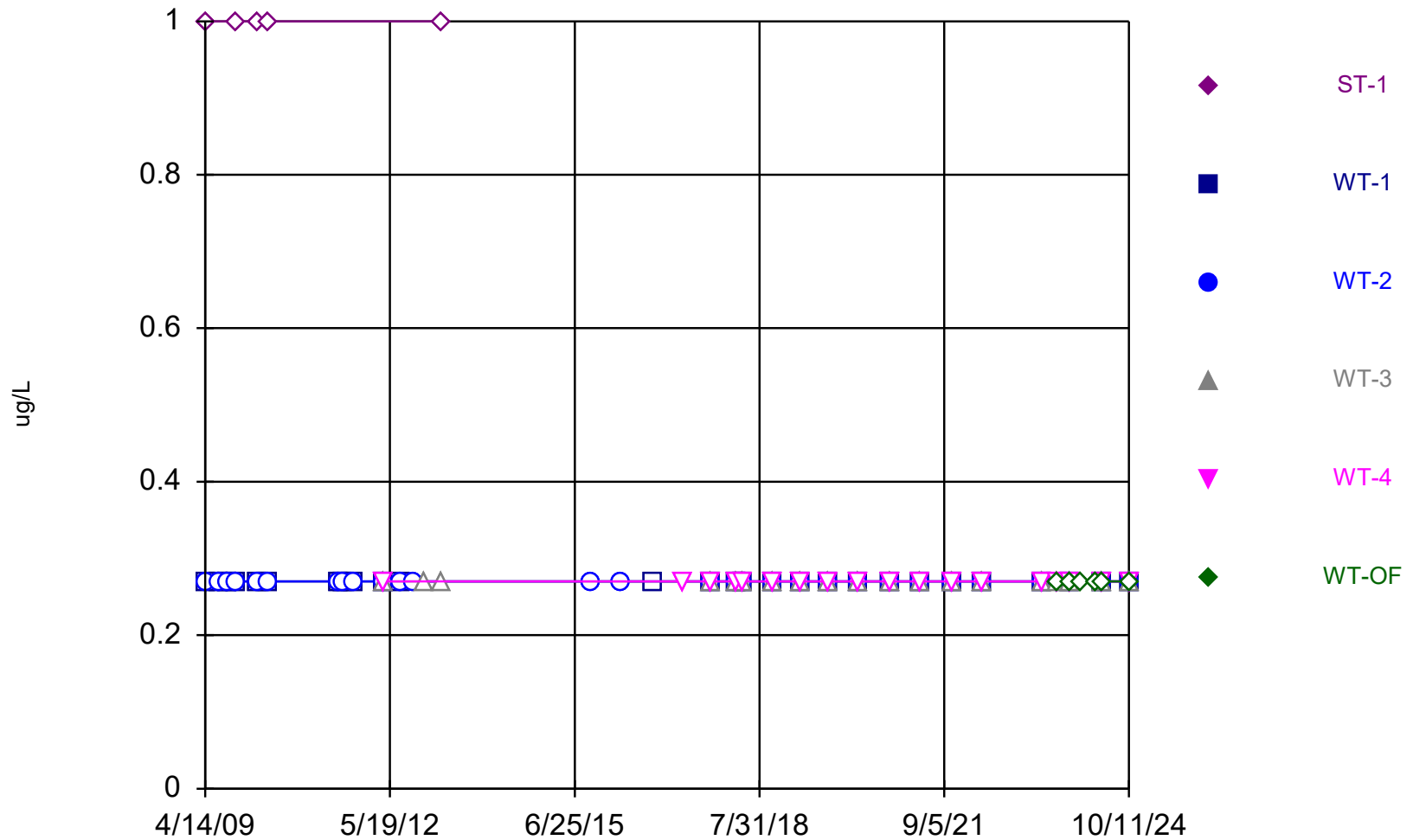
Time Series



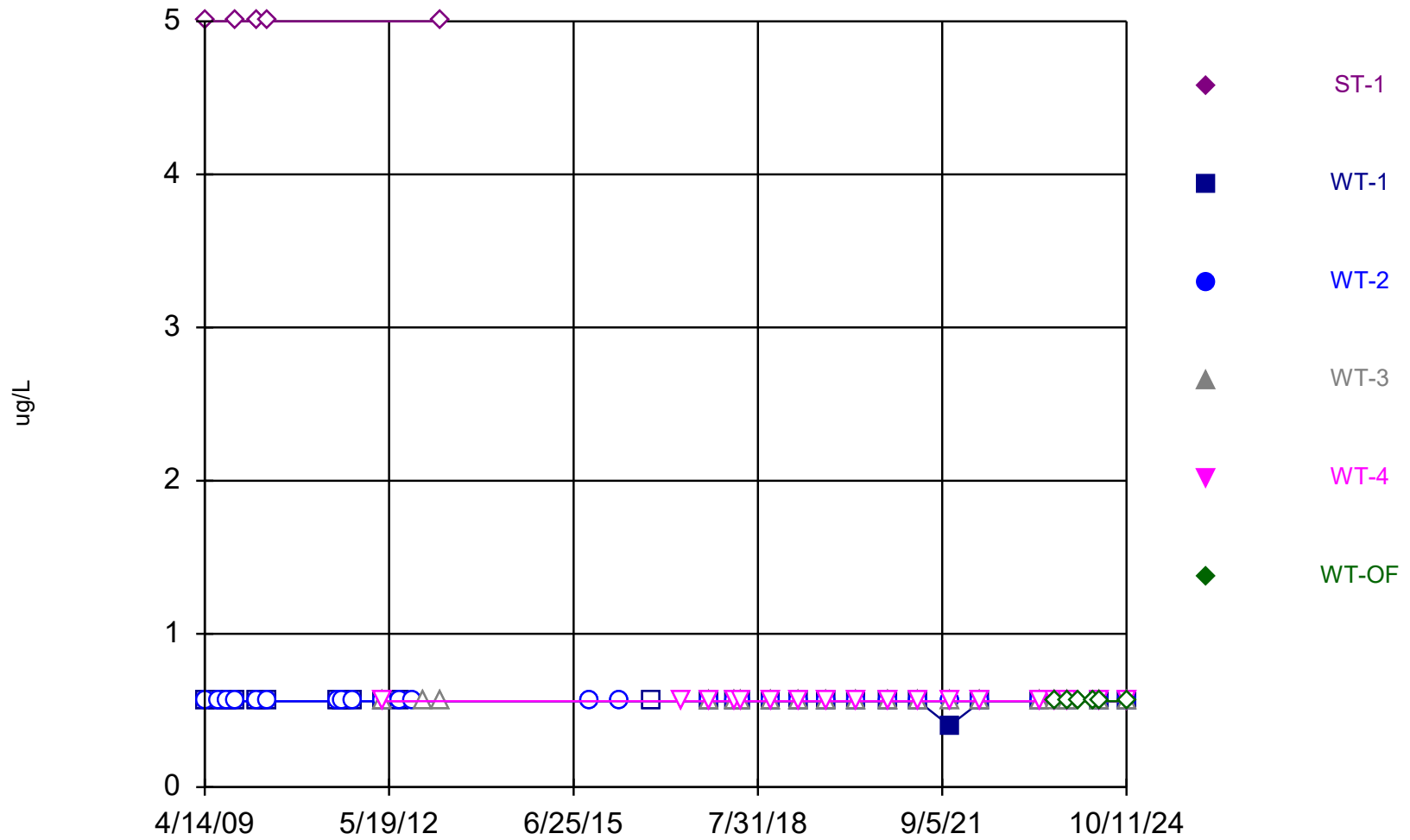
Constituent: Toluene Analysis Run 1/21/2025 4:51 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series

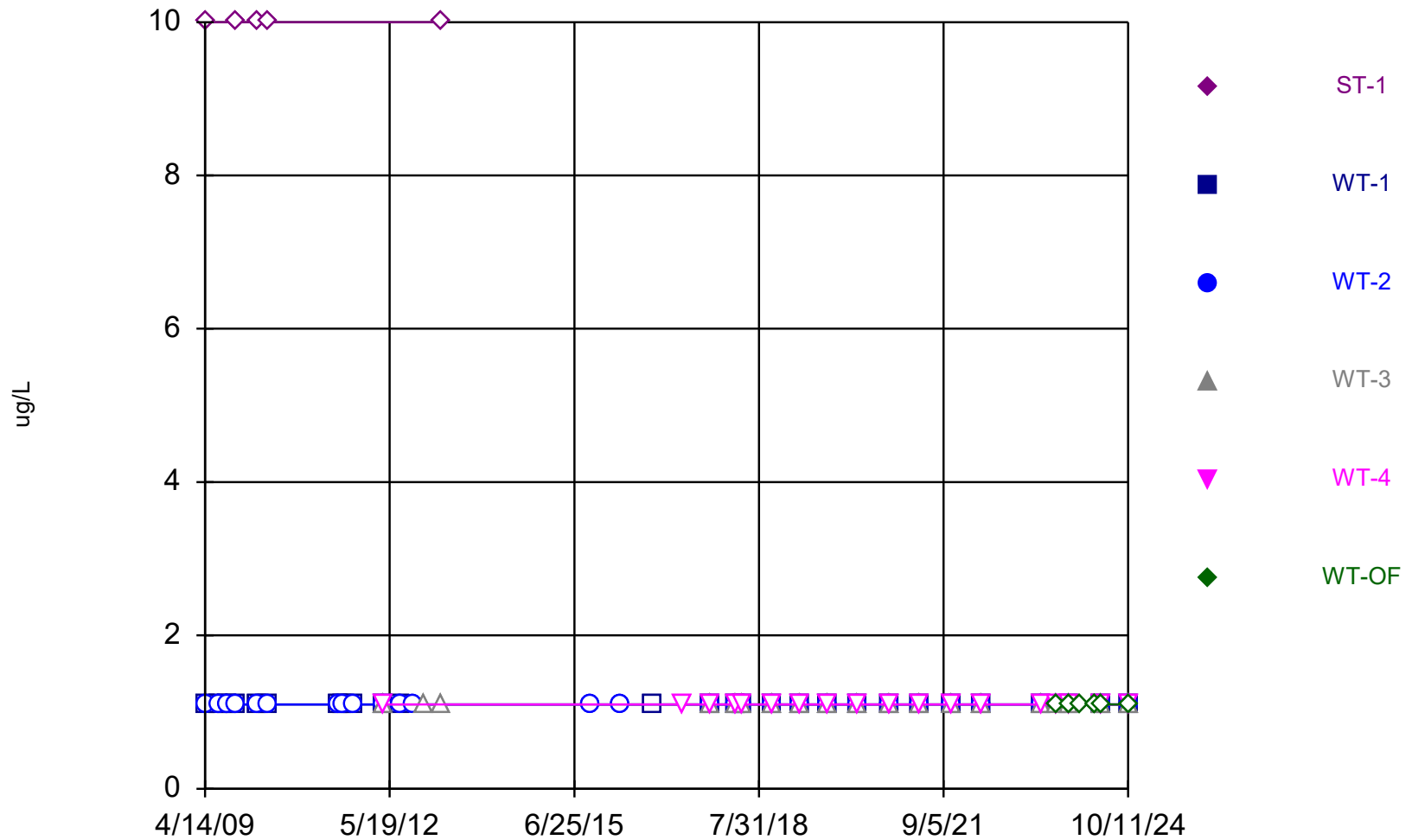


Time Series



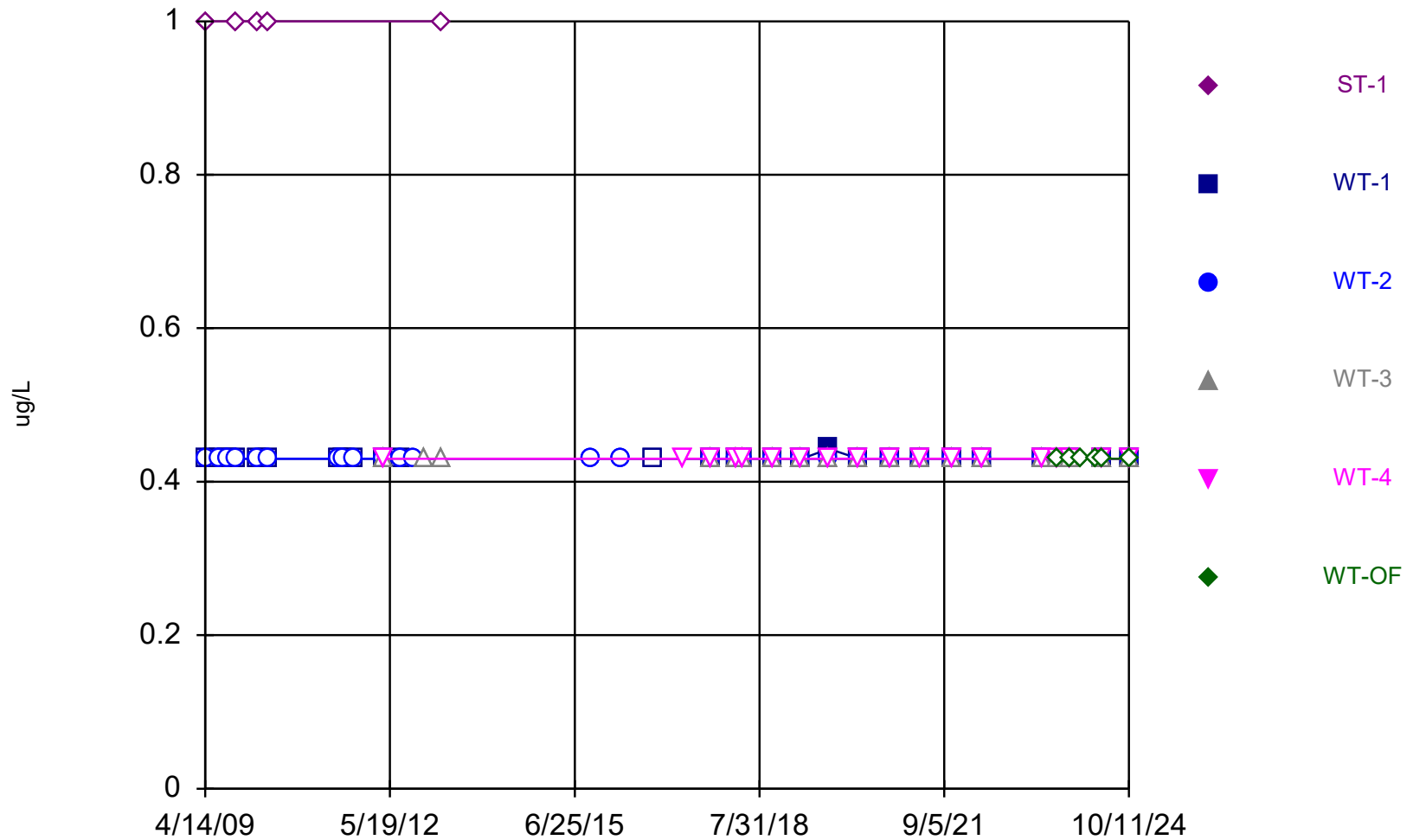
Constituent: trans-1,3-Dichloropropene Analysis Run 1/21/2025 4:51 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: trans-1,4-Dichloro-2-Butene Analysis Run 1/21/2025 4:51 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

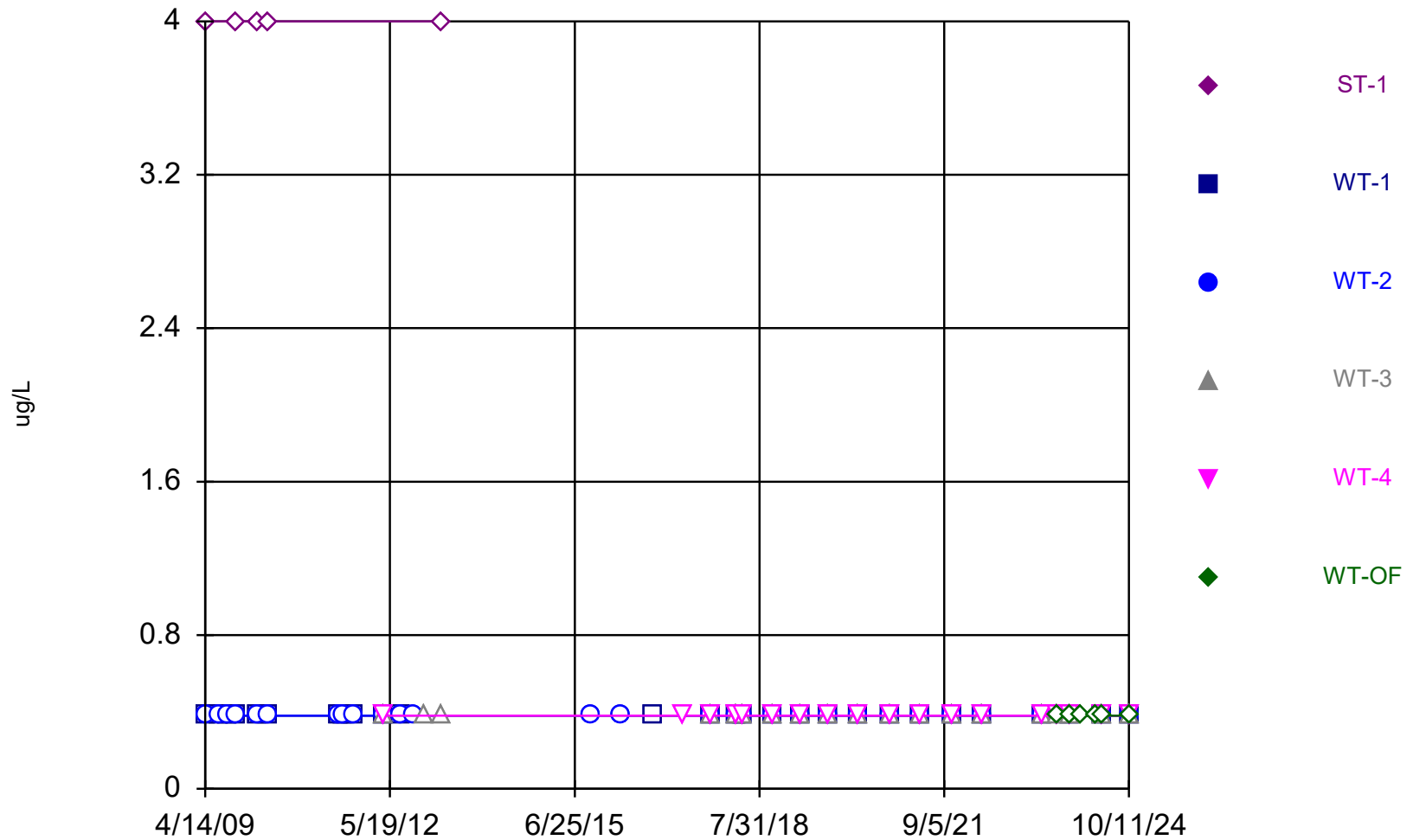
Time Series



Constituent: Trichloroethene Analysis Run 1/21/2025 4:51 PM View: 02_GU_Organics

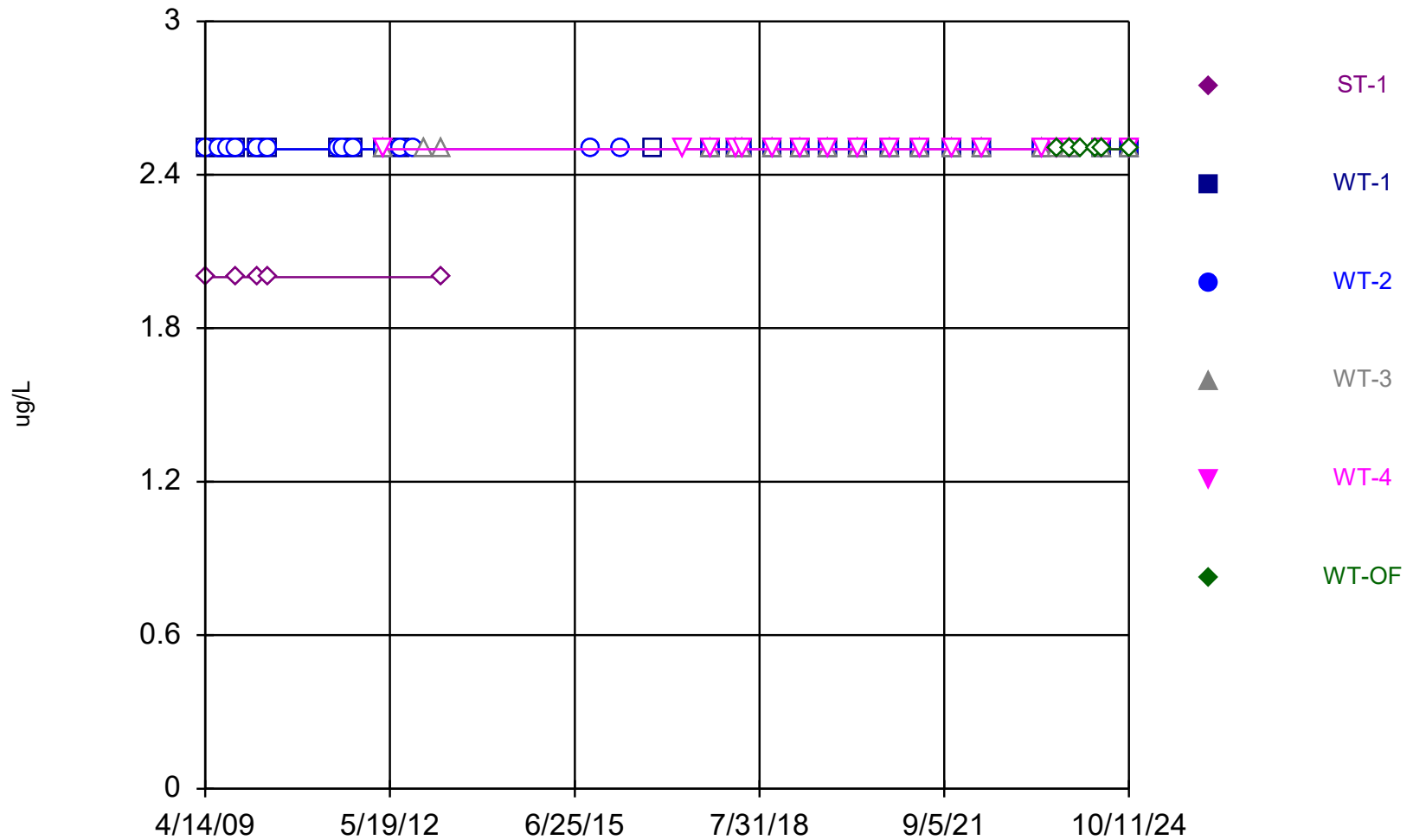
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: Trichlorofluoromethane Analysis Run 1/21/2025 4:51 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

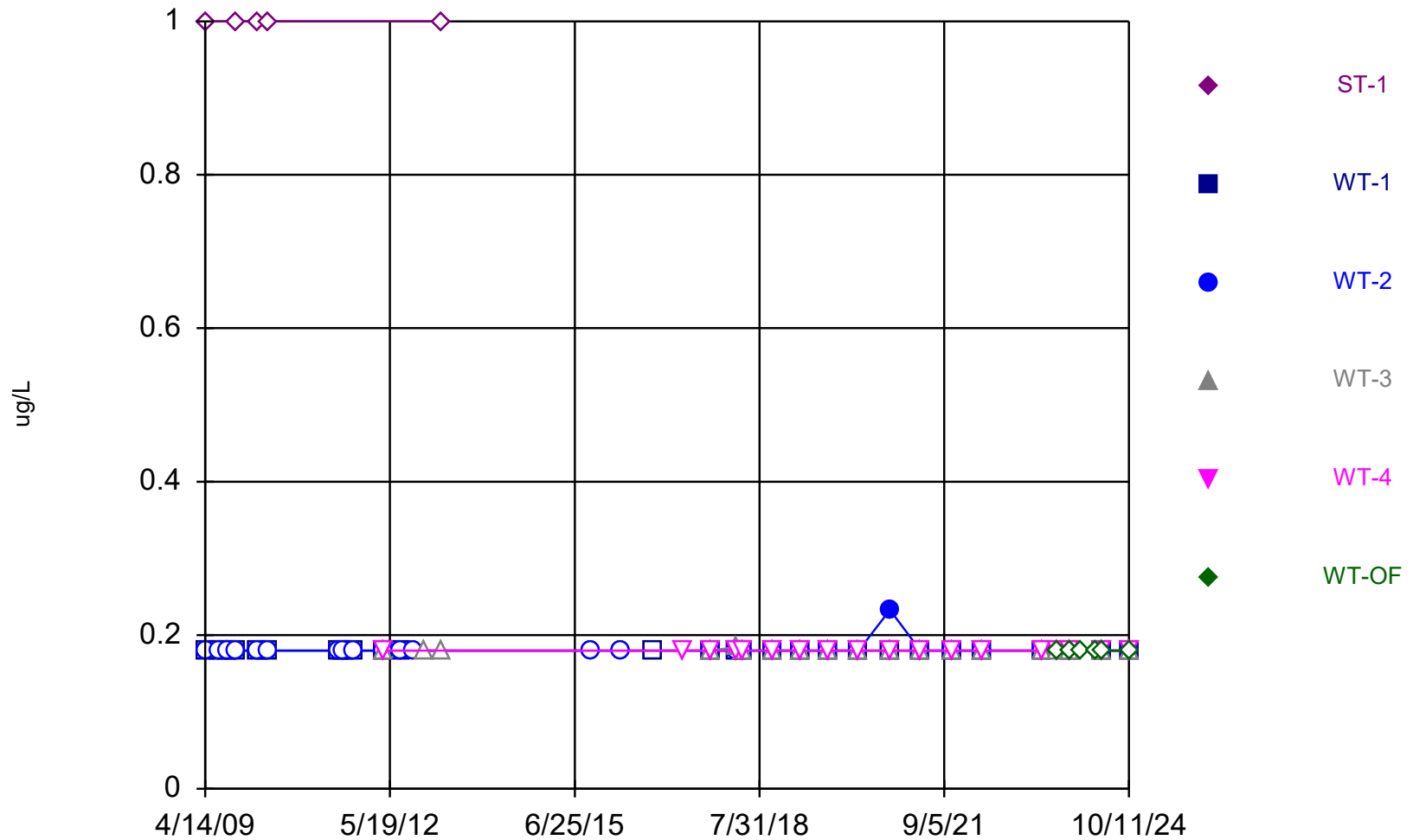
Time Series



Constituent: Vinyl Acetate Analysis Run 1/21/2025 4:51 PM View: 02_GU_Organics

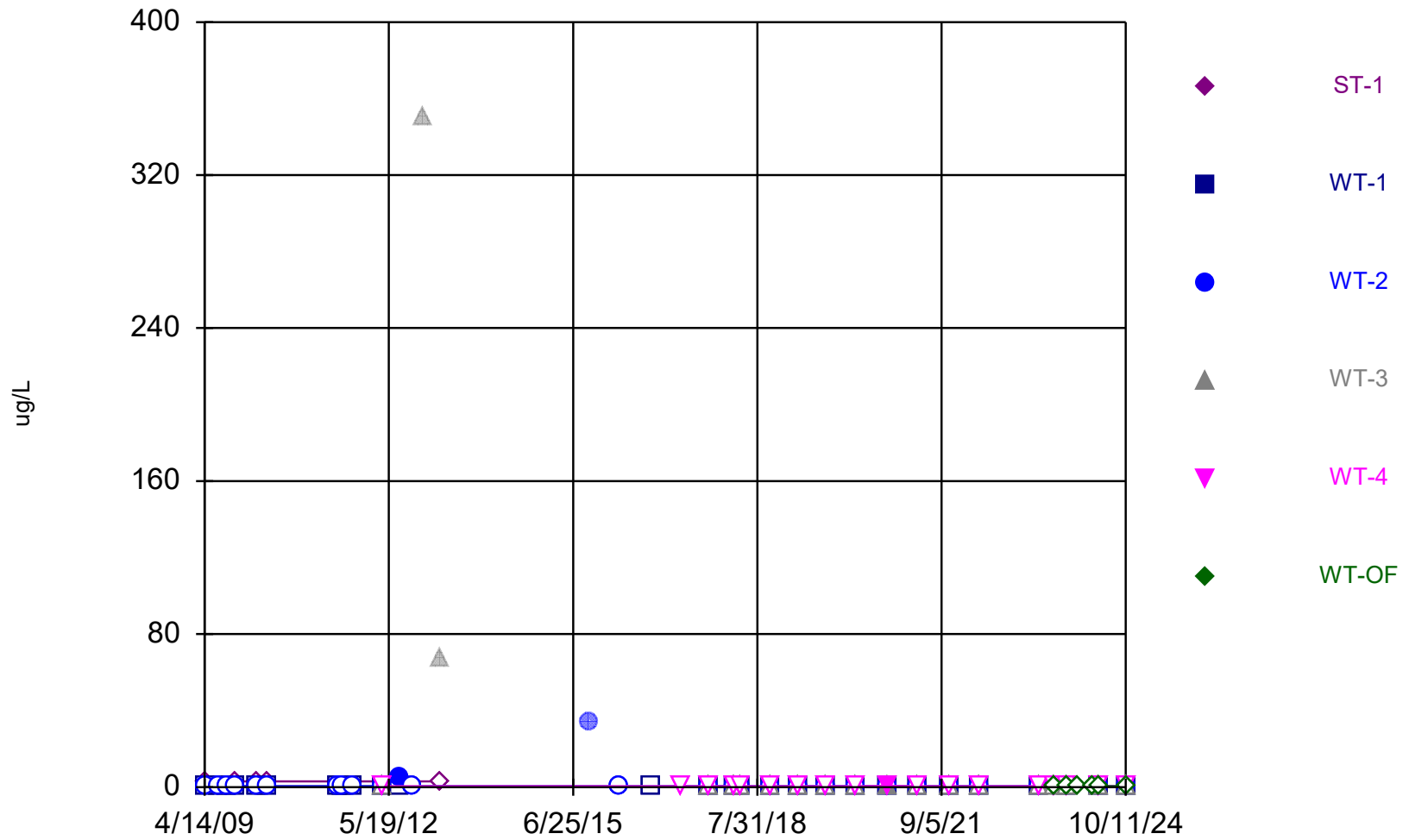
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: Vinyl Chloride Analysis Run 1/21/2025 4:51 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

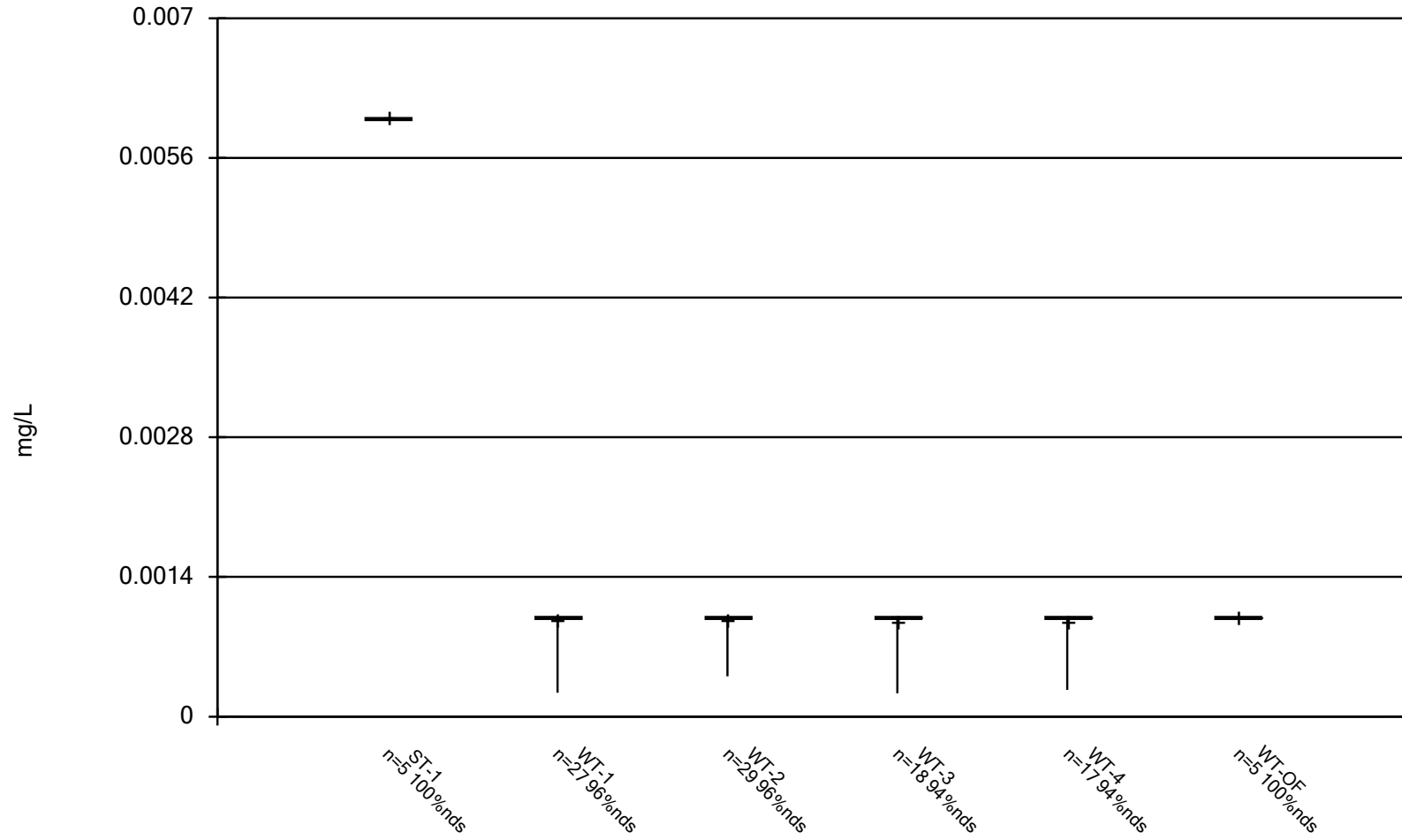
Time Series



Constituent: Xylenes, Total Analysis Run 1/21/2025 4:51 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

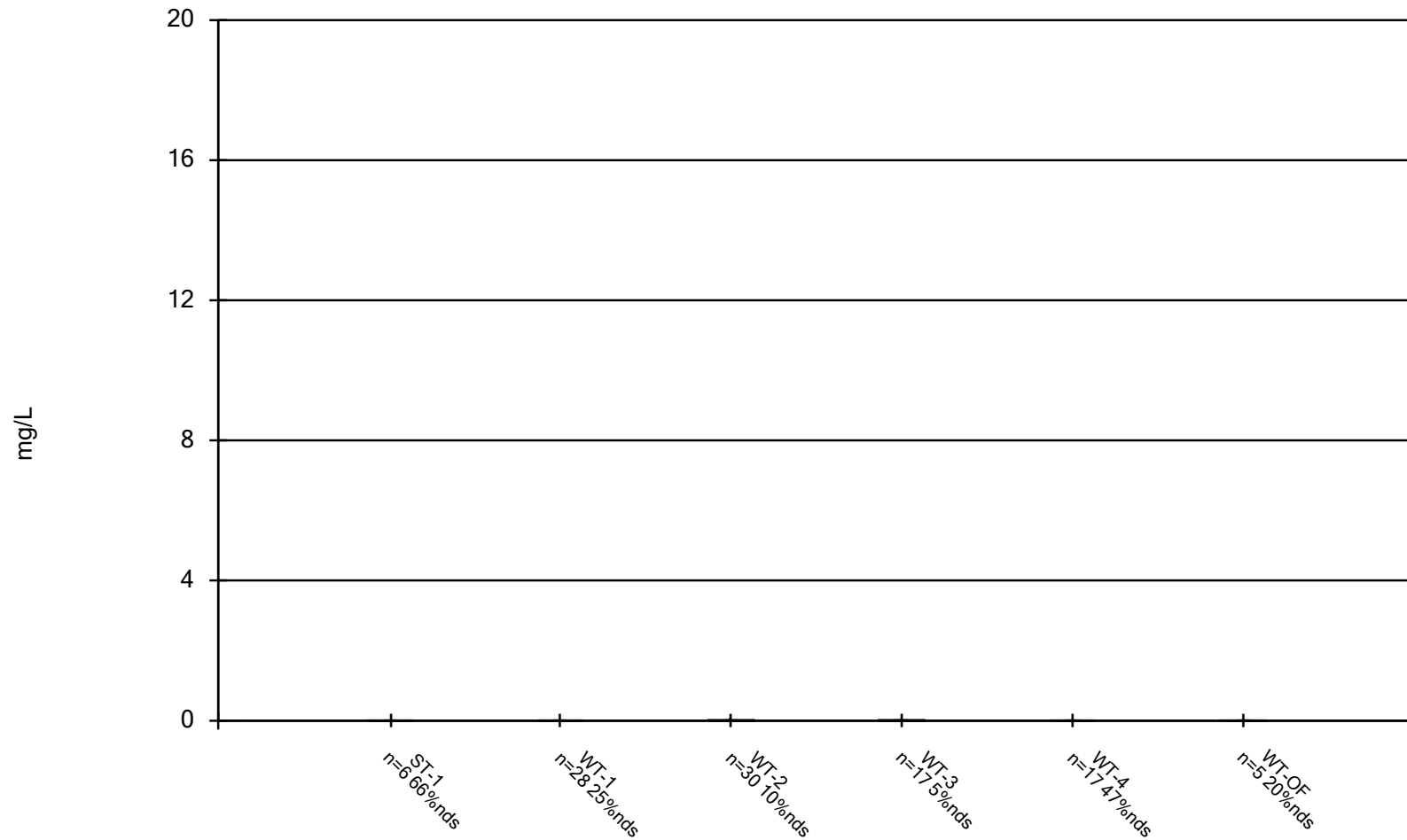
Groundwater Underdrain –
Box & Whiskers Plots

Box & Whiskers Plot



Constituent: Antimony Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

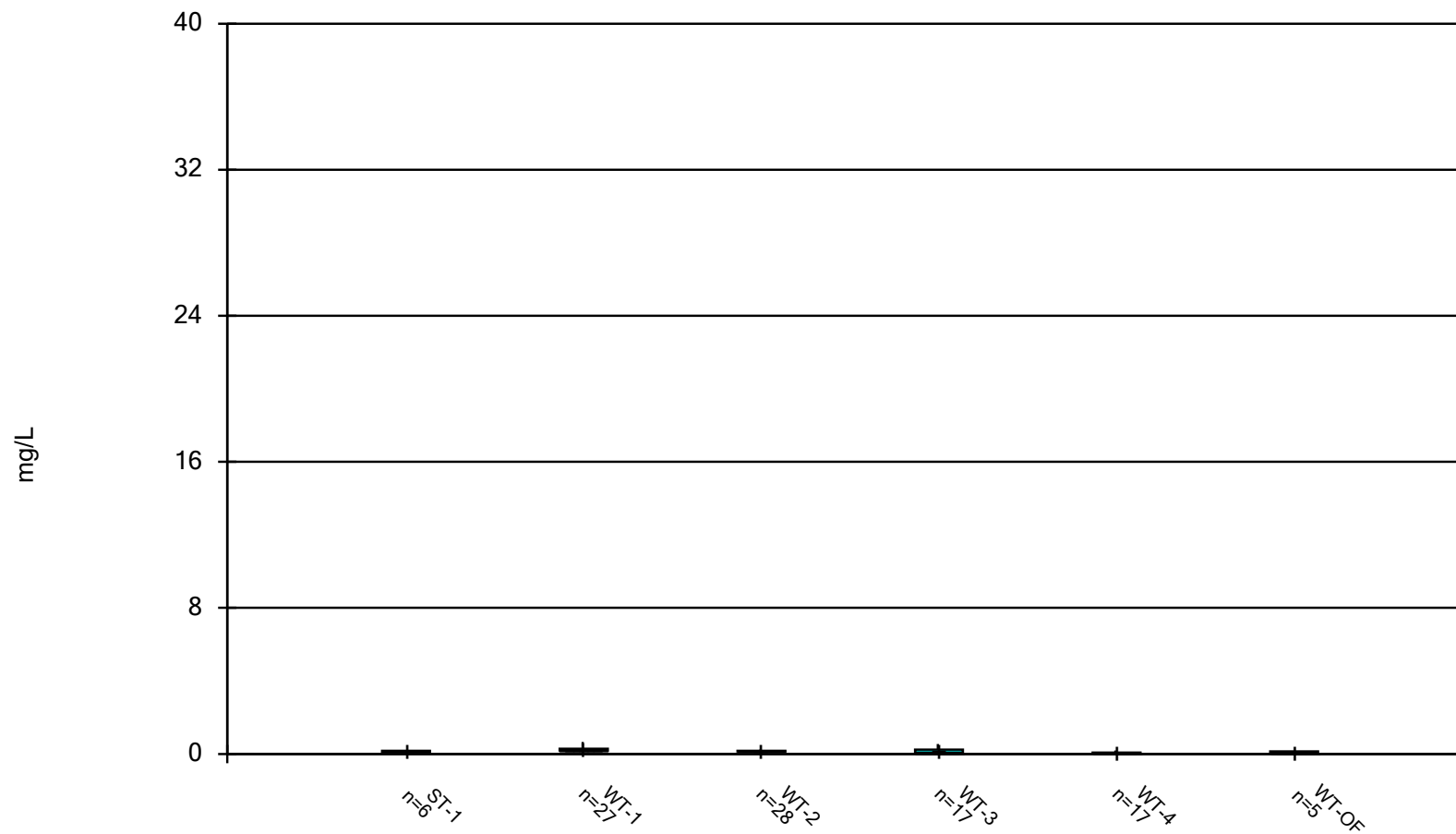
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

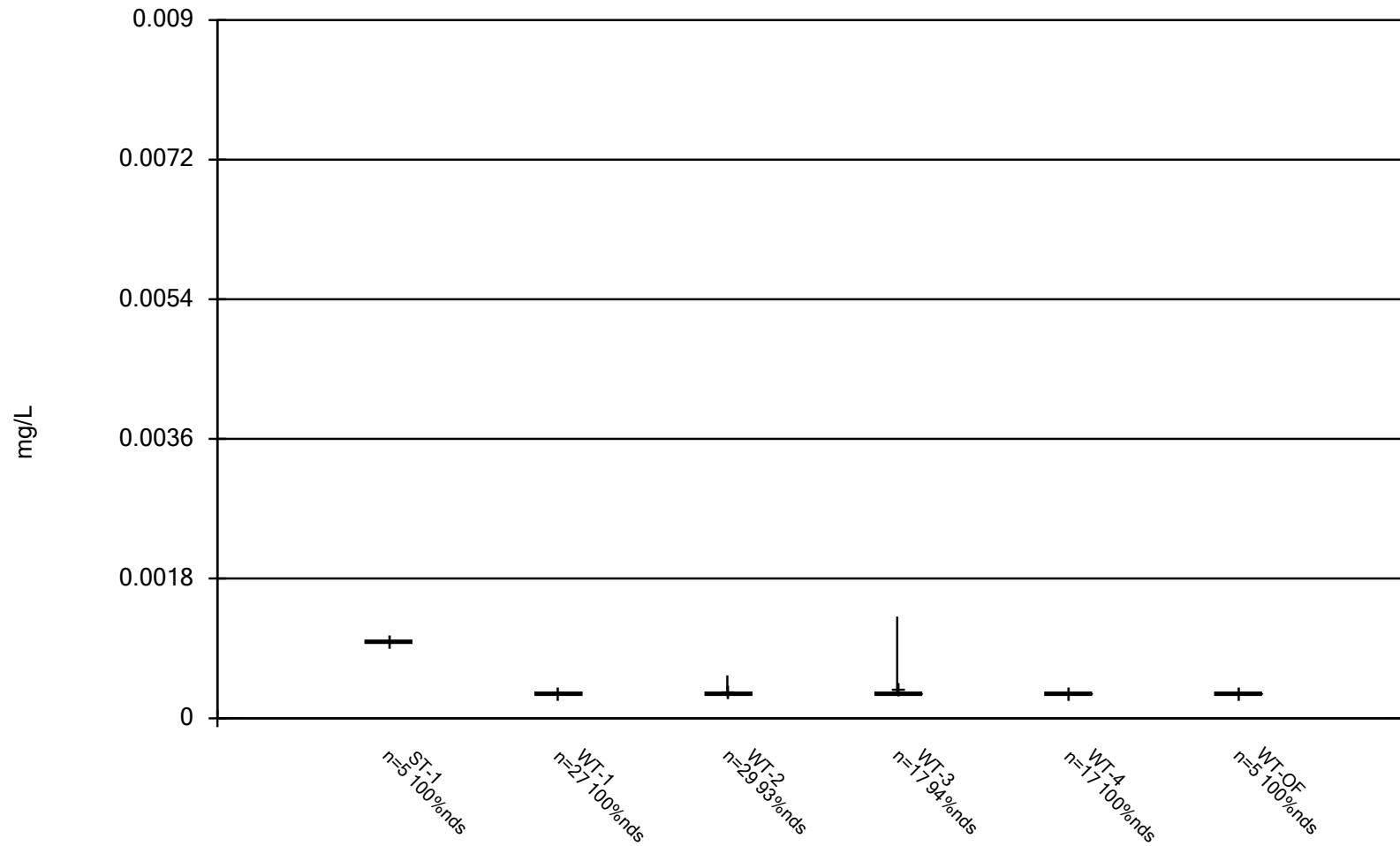
Box & Whiskers Plot



Constituent: Barium Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics

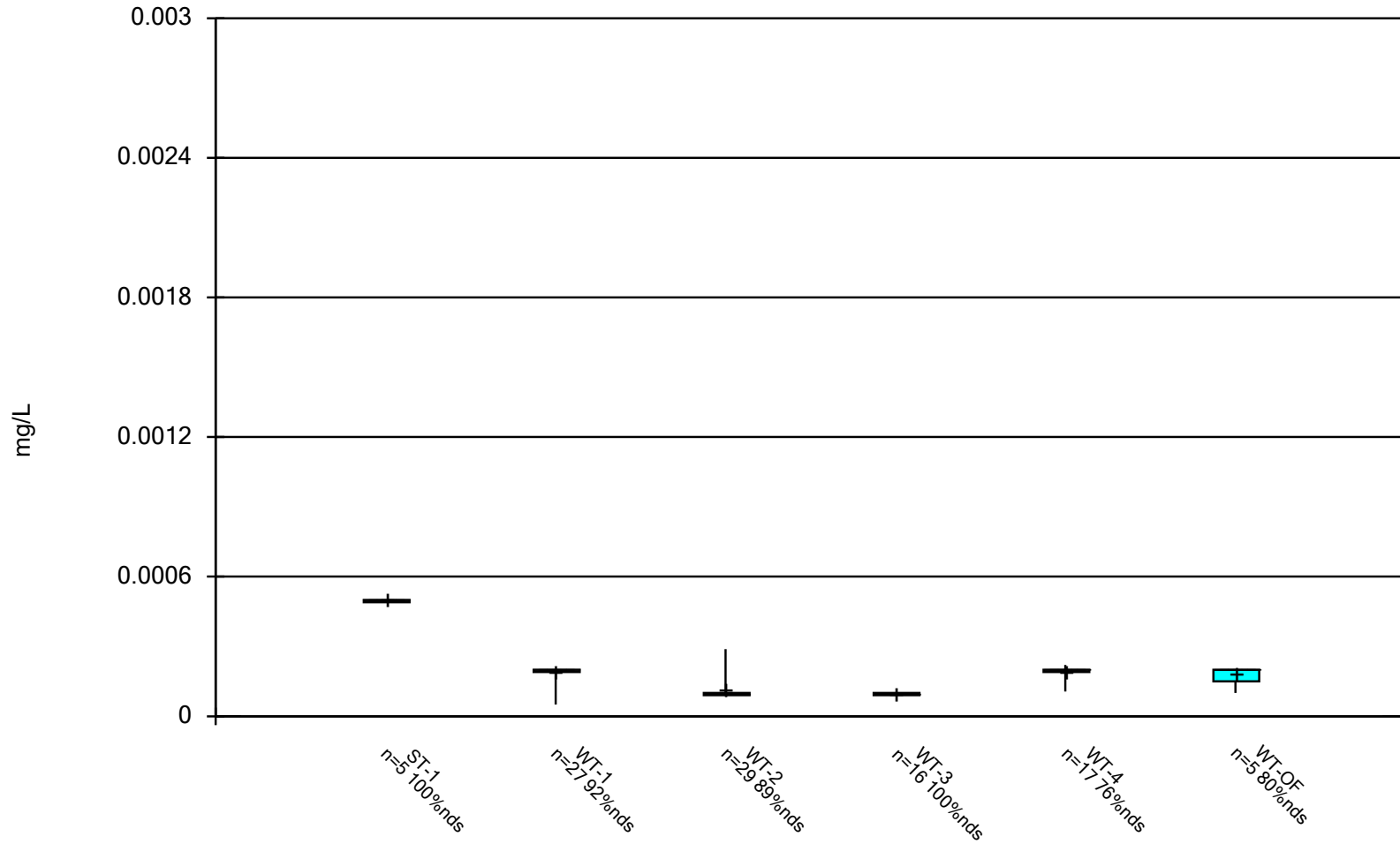
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



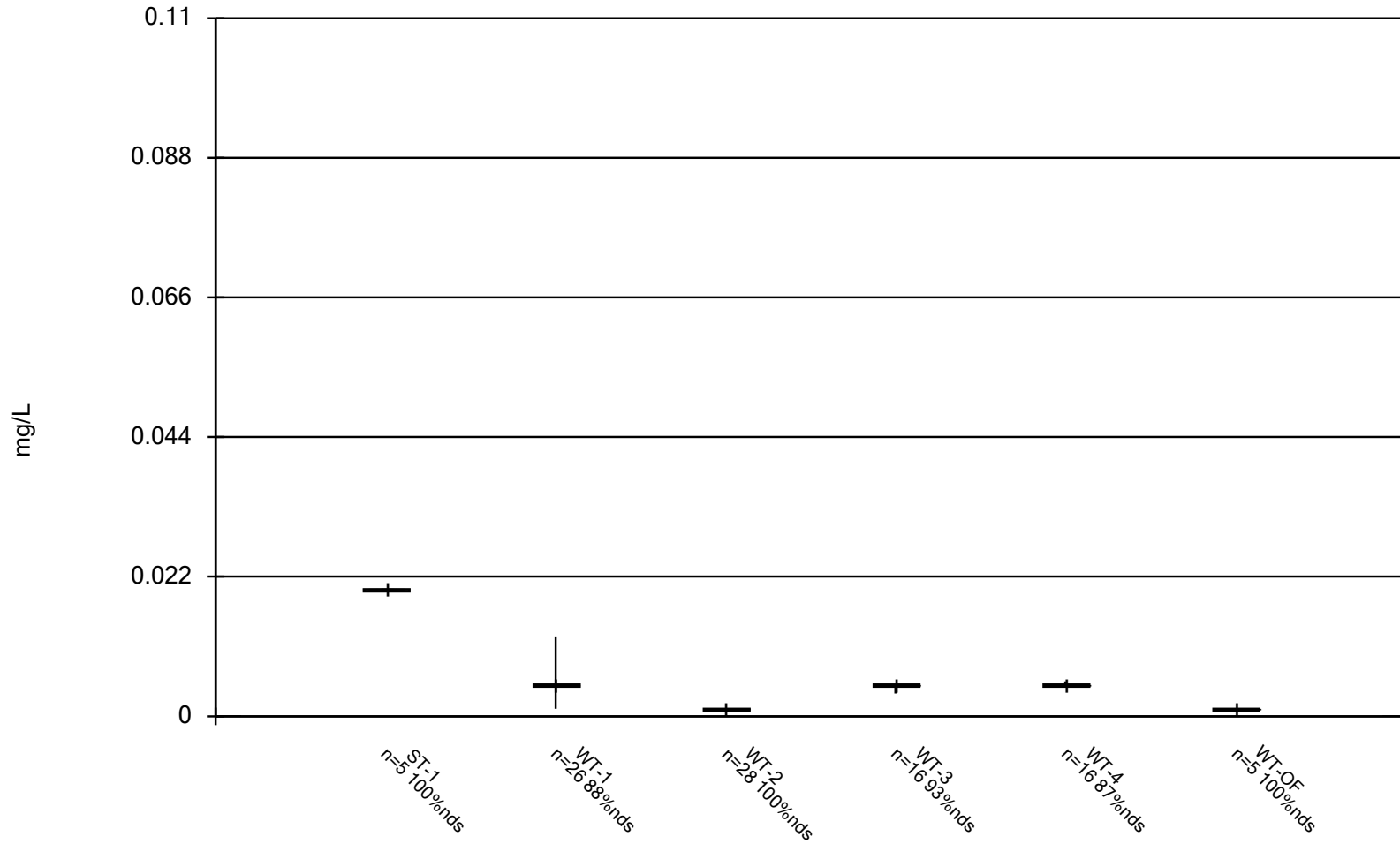
Constituent: Beryllium Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



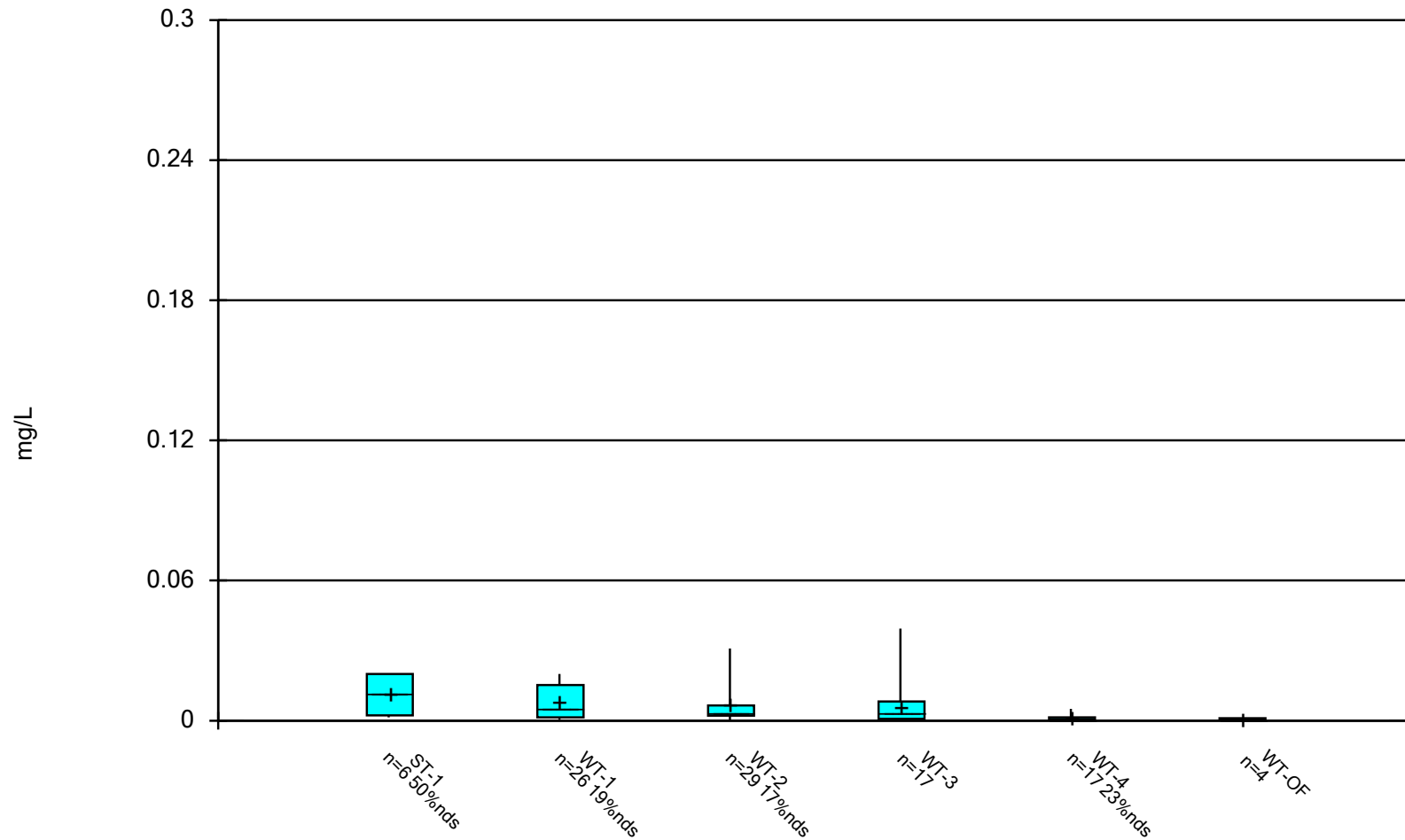
Constituent: Cadmium Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Chromium Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

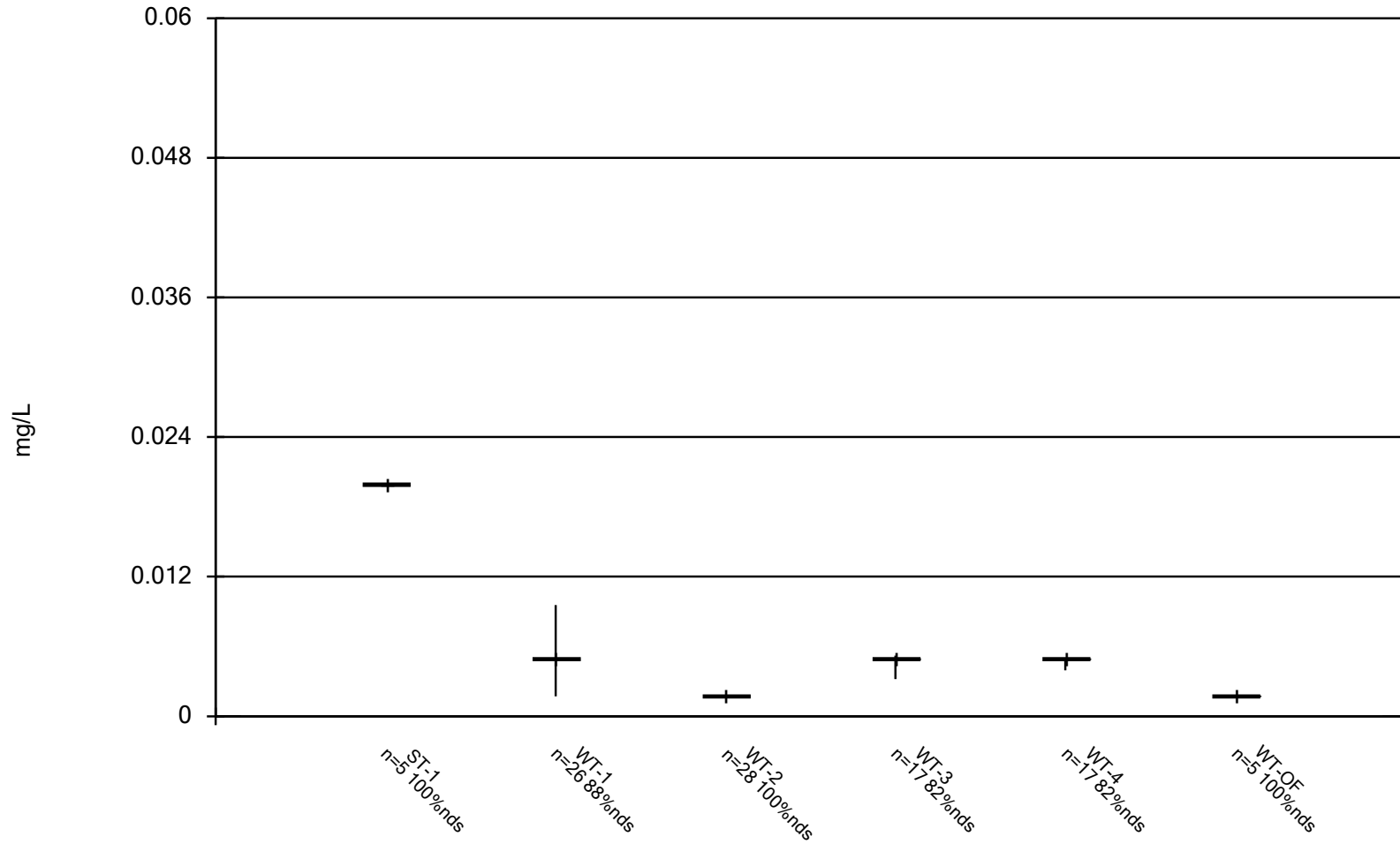
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics

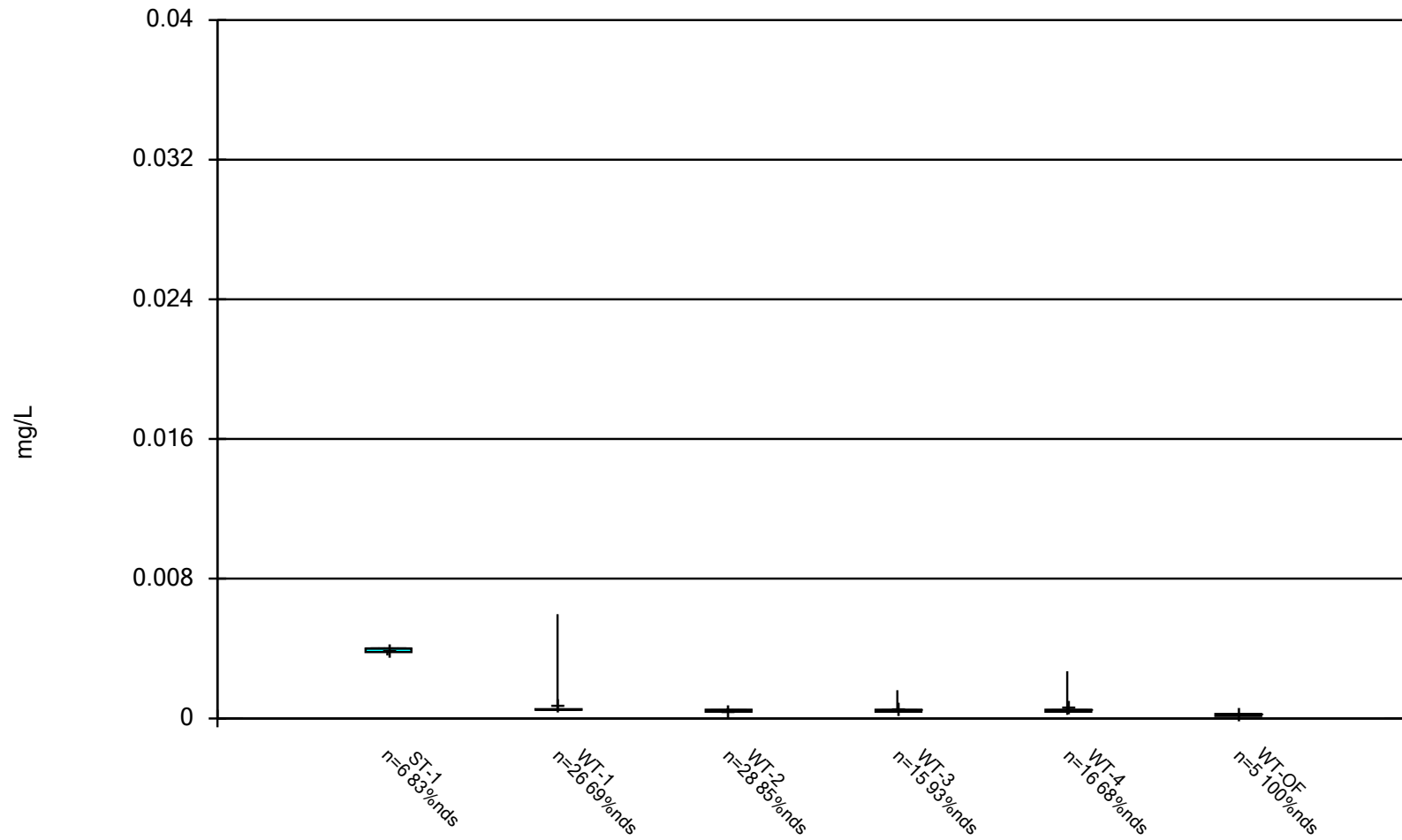
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



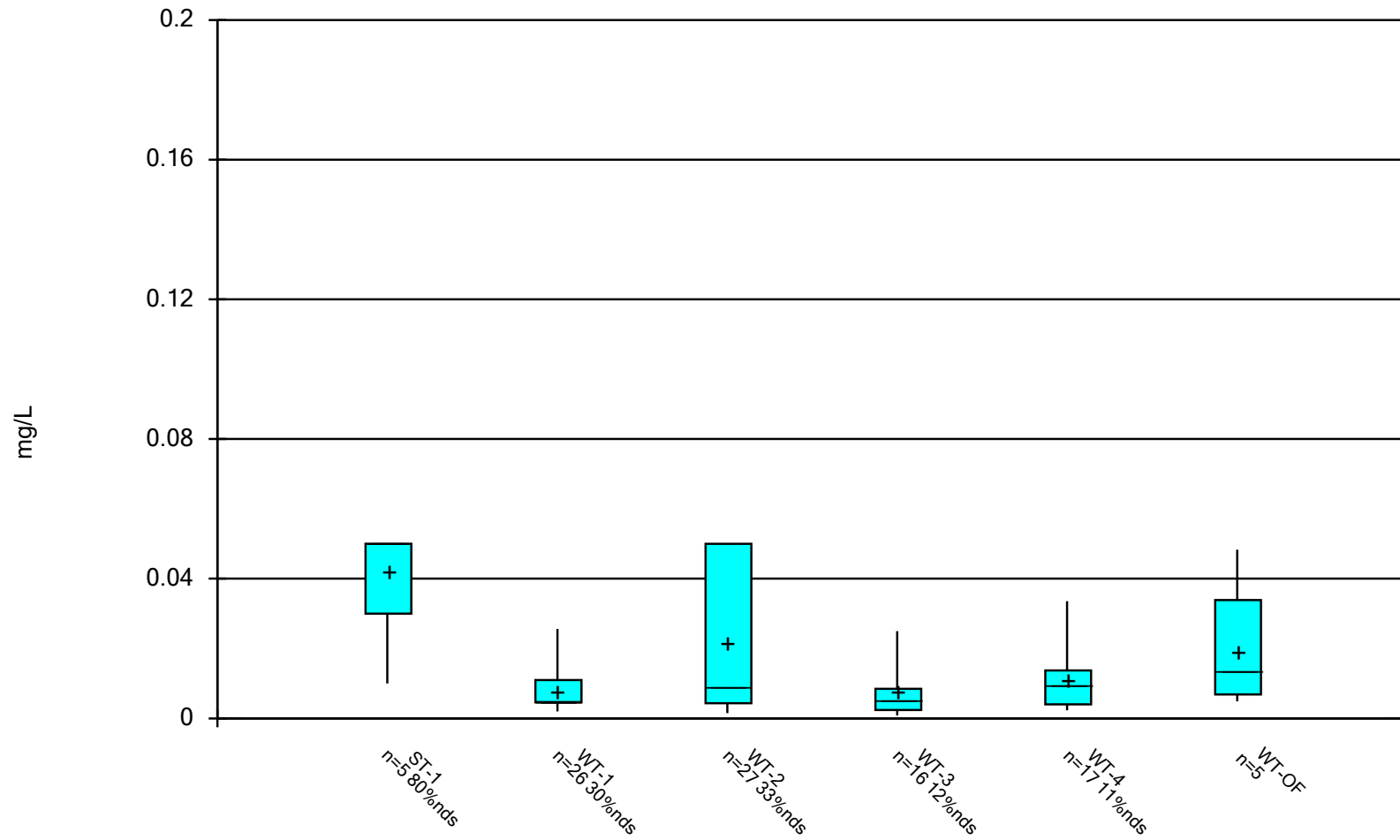
Constituent: Copper Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



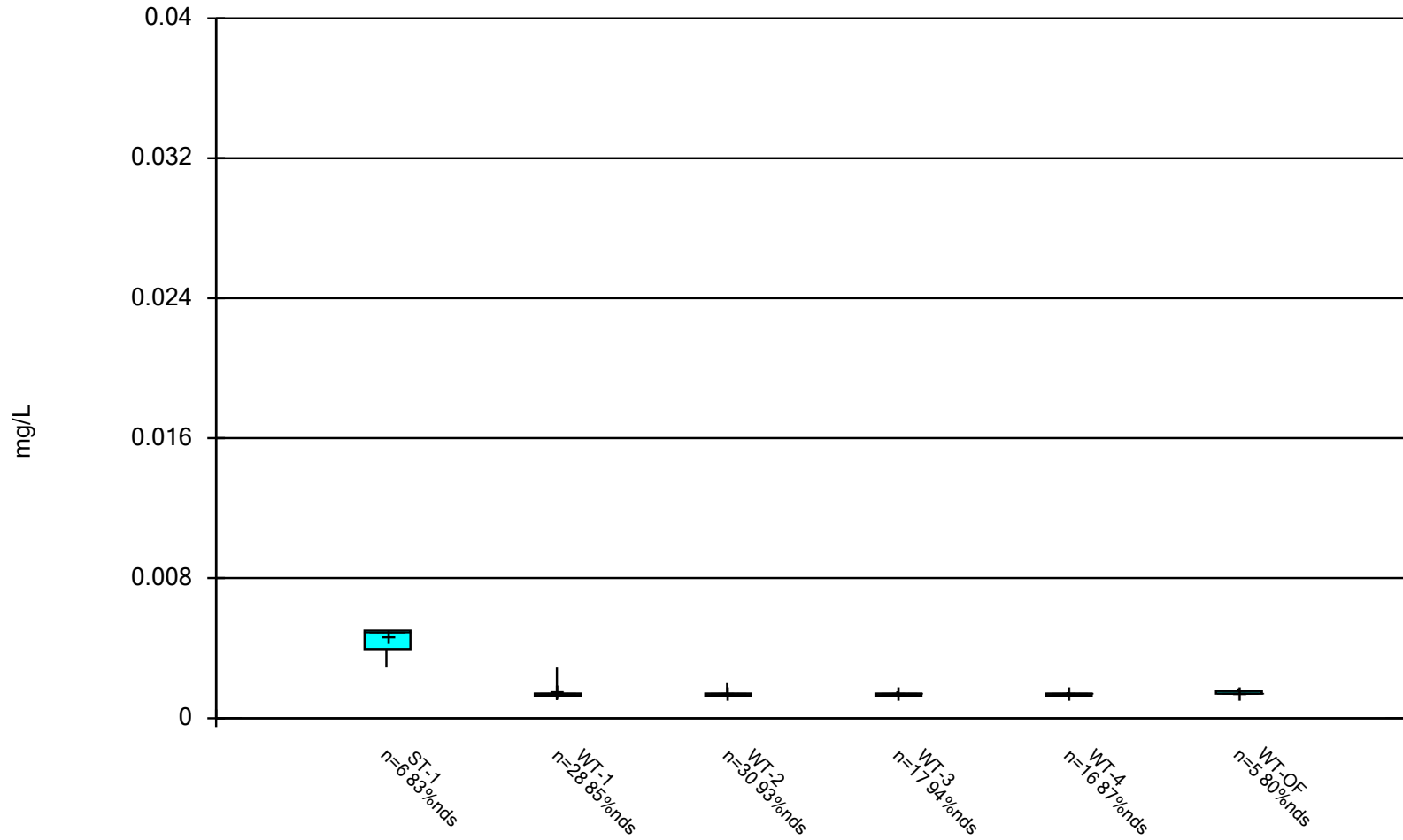
Constituent: Lead Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



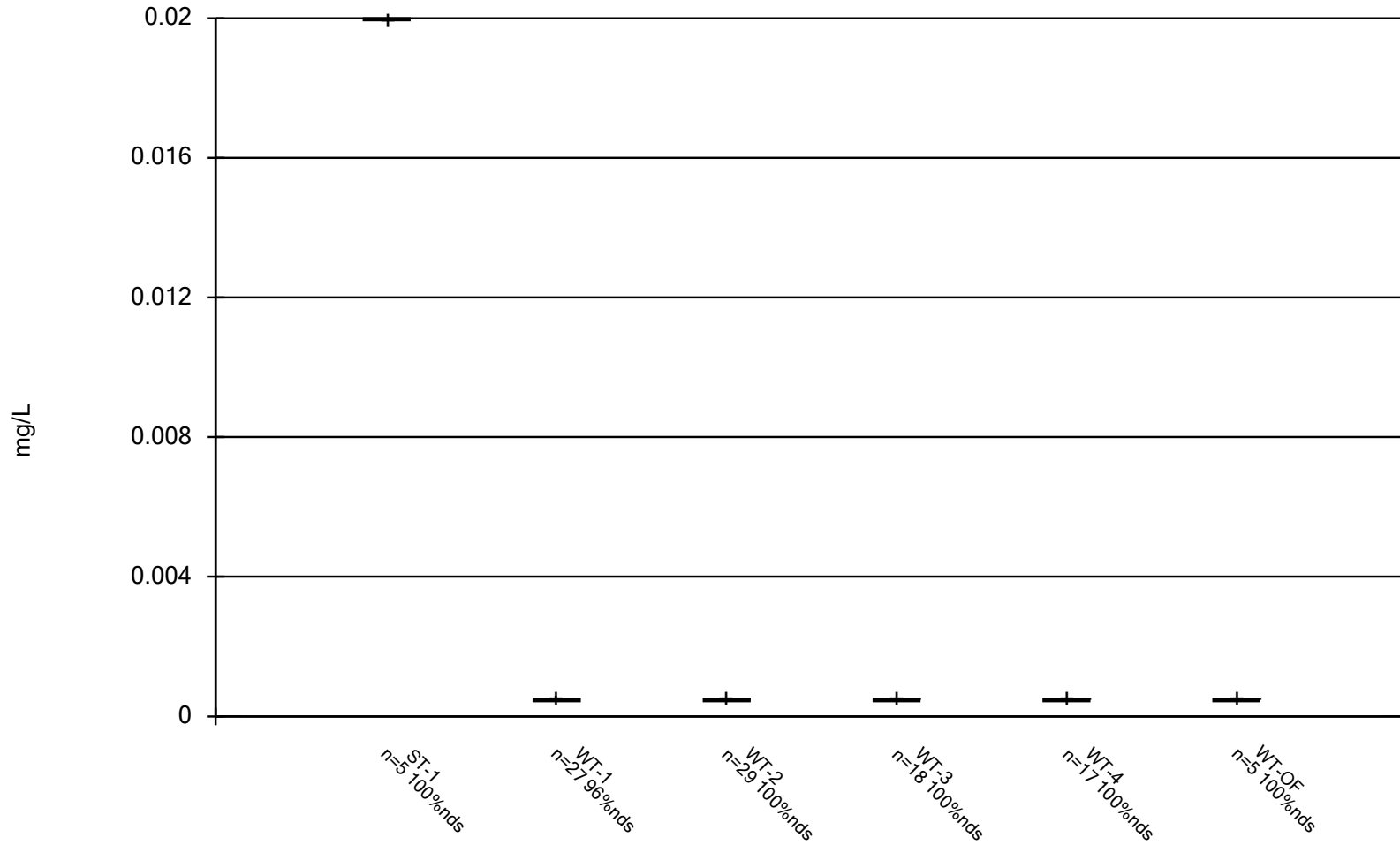
Constituent: Nickel Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



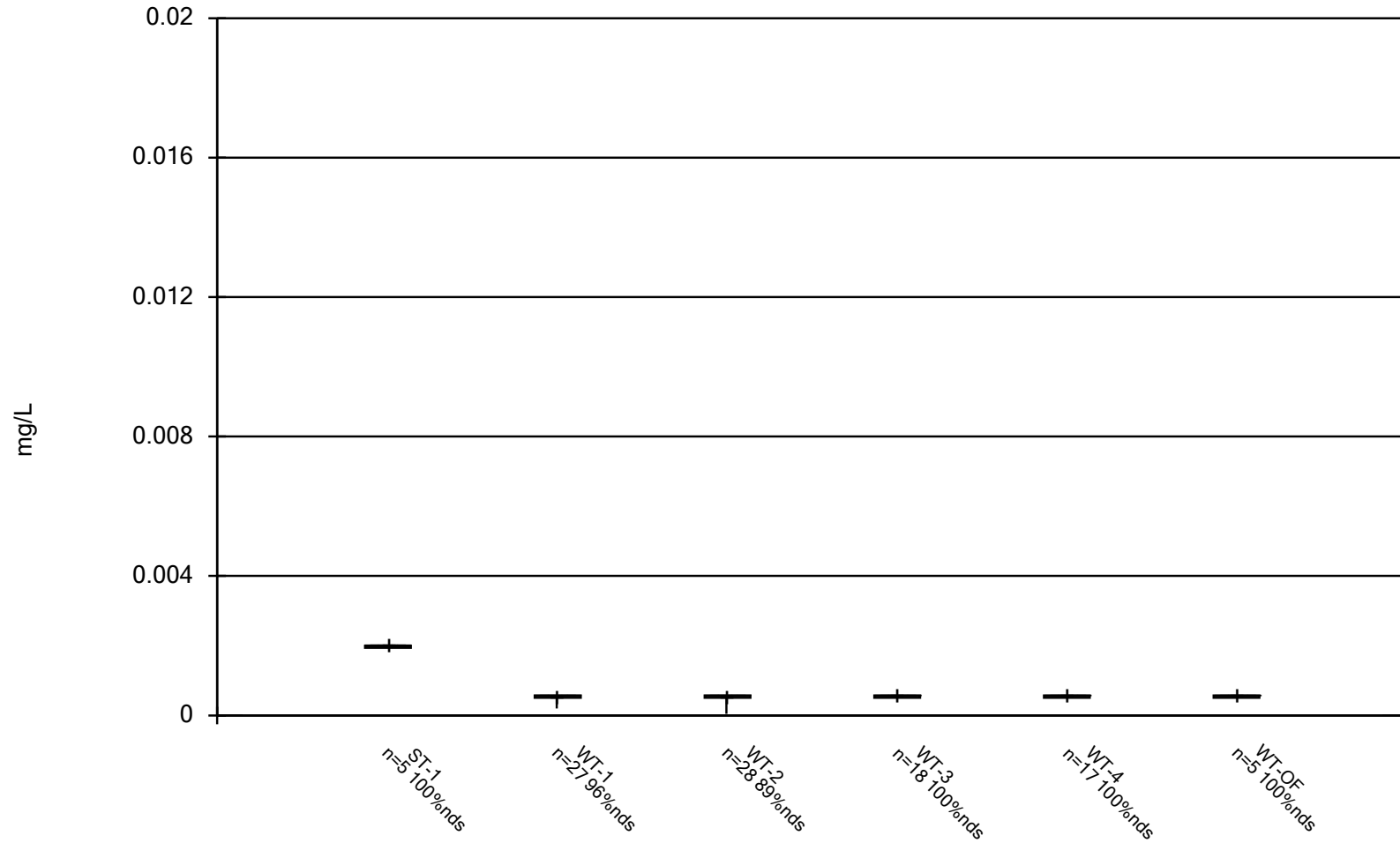
Constituent: Selenium Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



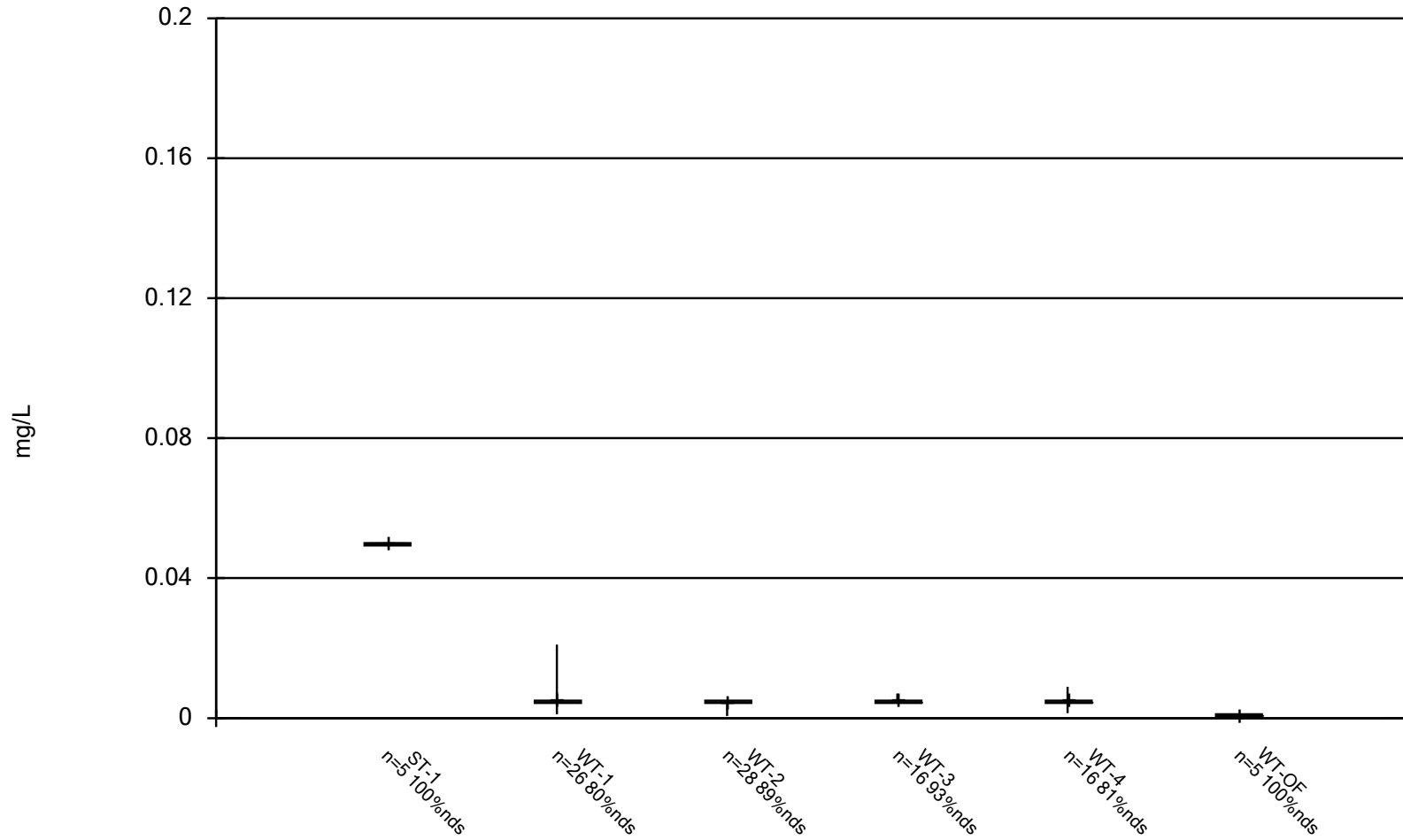
Constituent: Silver Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



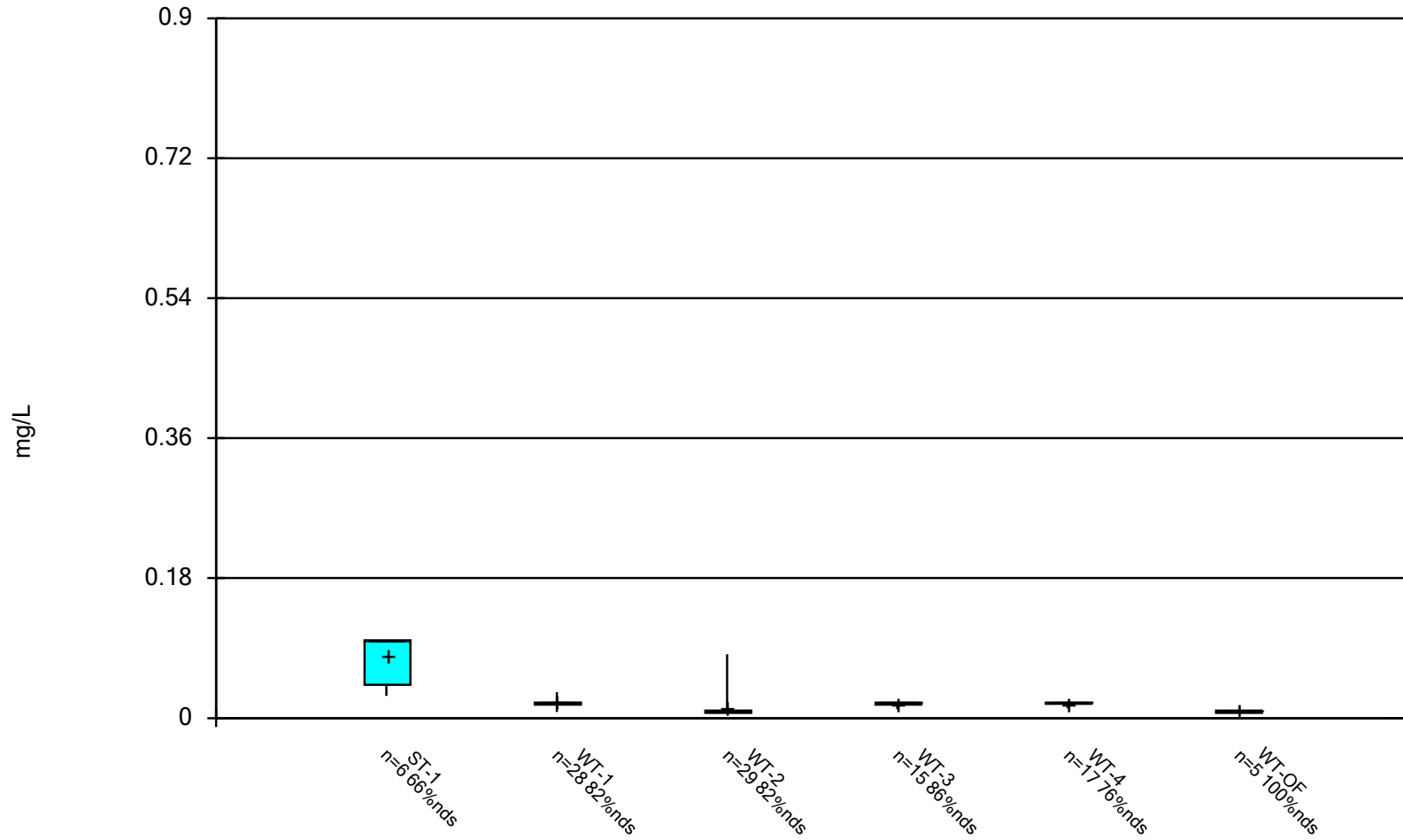
Constituent: Thallium Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Vanadium Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 1/21/2025 11:48 AM View: 01_GU_Inorganics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 11:49 AM

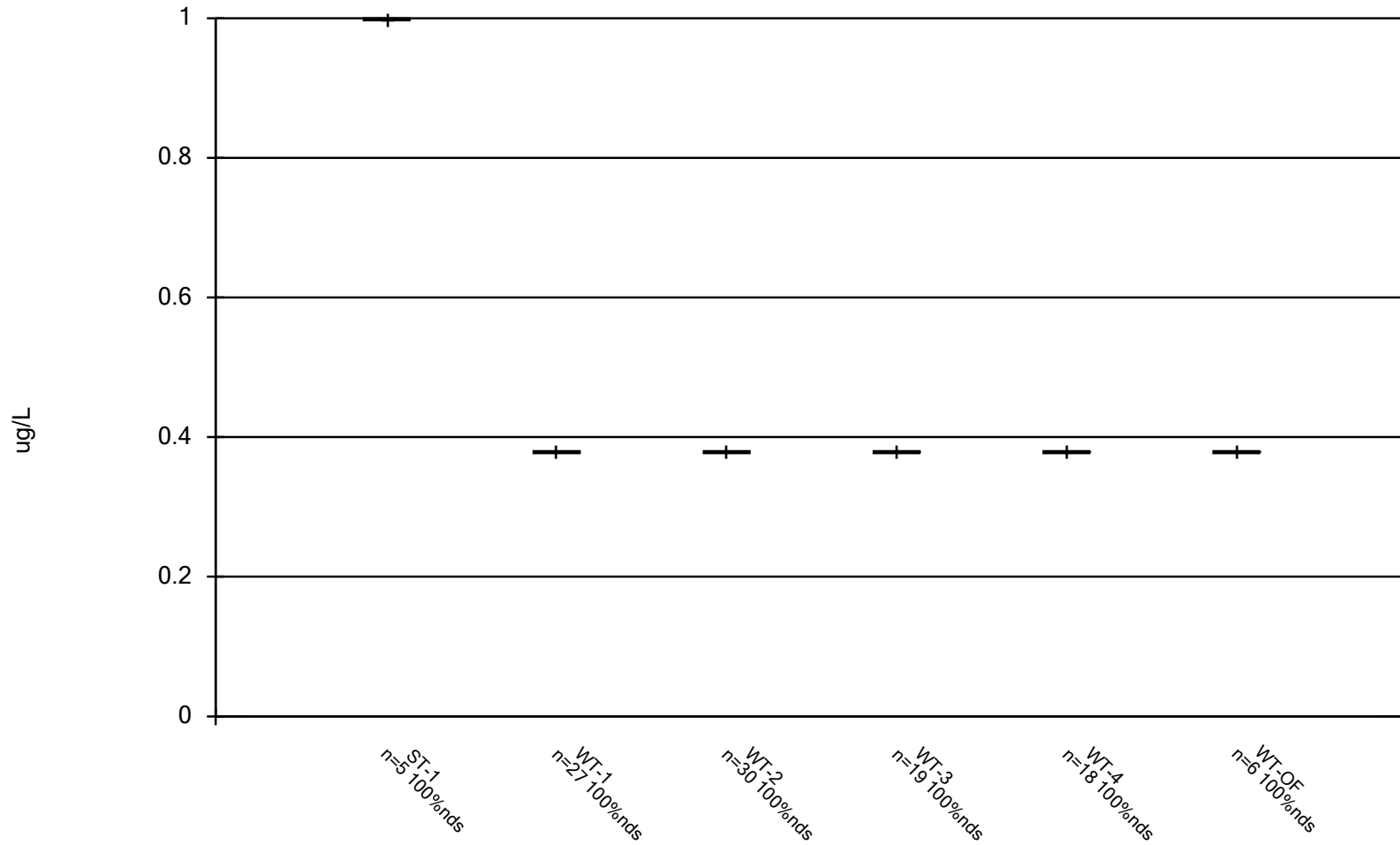
Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Antimony (mg/L)	ST-1	5	0.006	0	0	0.006	0.006	0.006	0.006	0.006	100
Antimony (mg/L)	WT-1	27	0.0009718	0.0001465	0.00002819	0.001	0.001	0.001	0.000239	0.001	96.3
Antimony (mg/L)	WT-2	29	0.0009794	0.0001109	0.00002059	0.001	0.001	0.001	0.000403	0.001	96.55
Antimony (mg/L)	WT-3	18	0.0009574	0.0001808	0.00004261	0.001	0.001	0.001	0.000233	0.001	94.44
Antimony (mg/L)	WT-4	17	0.0009569	0.0001778	0.00004312	0.001	0.001	0.001	0.000267	0.001	94.12
Antimony (mg/L)	WT-OF	5	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Arsenic (mg/L)	ST-1	6	0.00135	0.0006442	0.000263	0.001	0.001	0.00205	0.001	0.0026	66.67
Arsenic (mg/L)	WT-1	28	0.0038	0.002878	0.0005438	0.002025	0.002	0.006195	0.000853	0.01045	25
Arsenic (mg/L)	WT-2	30	0.01029	0.01603	0.002926	0.005125	0.002	0.01016	0.00123	0.0768	10
Arsenic (mg/L)	WT-3	17	0.0121	0.008619	0.00209	0.0122	0.005795	0.01655	0.0005	0.0349	5.882
Arsenic (mg/L)	WT-4	17	0.001849	0.000513	0.0001244	0.002	0.00168	0.002	0.000658	0.00267	47.06
Arsenic (mg/L)	WT-OF	5	0.001452	0.001265	0.0005657	0.000918	0.000616	0.002555	0.00053	0.00362	20
Barium (mg/L)	ST-1	6	0.1412	0.02809	0.01147	0.135	0.1145	0.174	0.103	0.177	0
Barium (mg/L)	WT-1	27	0.2508	0.1147	0.02207	0.244	0.193	0.285	0.0584	0.662	0
Barium (mg/L)	WT-2	28	0.155	0.03745	0.007077	0.158	0.139	0.17	0.0286	0.24	0
Barium (mg/L)	WT-3	17	0.1802	0.1475	0.03577	0.117	0.0763	0.2435	0.0374	0.544	0
Barium (mg/L)	WT-4	17	0.05399	0.04761	0.01155	0.0296	0.0243	0.0745	0.0208	0.194	0
Barium (mg/L)	WT-OF	5	0.1099	0.03135	0.01402	0.0966	0.08845	0.138	0.0868	0.163	0
Beryllium (mg/L)	ST-1	5	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Beryllium (mg/L)	WT-1	27	0.00033	0	0	0.00033	0.00033	0.00033	0.00033	0.00033	100
Beryllium (mg/L)	WT-2	29	0.0003448	0.00005548	0.0000103	0.00033	0.00033	0.00033	0.00033	0.000552	93.1
Beryllium (mg/L)	WT-3	17	0.0003876	0.0002377	0.00005765	0.00033	0.00033	0.00033	0.00033	0.00131	94.12
Beryllium (mg/L)	WT-4	17	0.00033	0	0	0.00033	0.00033	0.00033	0.00033	0.00033	100
Beryllium (mg/L)	WT-OF	5	0.00033	0	0	0.00033	0.00033	0.00033	0.00033	0.00033	100
Cadmium (mg/L)	ST-1	5	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Cadmium (mg/L)	WT-1	27	0.000192	0.00003109	0.000005983	0.0002	0.0002	0.0002	0.00005	0.0002	92.59
Cadmium (mg/L)	WT-2	29	0.0001126	0.00004696	0.000008721	0.0001	0.0001	0.0001	0.0001	0.000288	89.66
Cadmium (mg/L)	WT-3	16	0.0001	0	0	0.0001	0.0001	0.0001	0.0001	0.0001	100
Cadmium (mg/L)	WT-4	17	0.0001958	0.00002365	0.000005736	0.0002	0.0002	0.0002	0.000106	0.00022	76.47
Cadmium (mg/L)	WT-OF	5	0.00018	0.00004472	0.00002	0.0002	0.00015	0.0002	0.0001	0.0002	80
Chromium (mg/L)	ST-1	5	0.02	0	0	0.02	0.02	0.02	0.02	0.02	100
Chromium (mg/L)	WT-1	26	0.005094	0.001718	0.000337	0.005	0.005	0.005	0.0012	0.0126	88.46
Chromium (mg/L)	WT-2	28	0.0012	0	0	0.0012	0.0012	0.0012	0.0012	0.0012	100
Chromium (mg/L)	WT-3	16	0.004913	0.0003475	0.00008687	0.005	0.005	0.005	0.00361	0.005	93.75
Chromium (mg/L)	WT-4	16	0.005012	0.0001514	0.00003785	0.005	0.005	0.005	0.00469	0.0055	87.5
Chromium (mg/L)	WT-OF	5	0.0012	0	0	0.0012	0.0012	0.0012	0.0012	0.0012	100
Cobalt (mg/L)	ST-1	6	0.01136	0.009493	0.003875	0.01175	0.002325	0.02	0.00139	0.02	50
Cobalt (mg/L)	WT-1	26	0.007765	0.007209	0.001414	0.005175	0.001395	0.0152	0.0006	0.02	19.23
Cobalt (mg/L)	WT-2	29	0.007062	0.008034	0.001492	0.0036	0.00214	0.00647	0.0003	0.0309	17.24
Cobalt (mg/L)	WT-3	17	0.006315	0.009524	0.00231	0.0032	0.0008225	0.00823	0.0006	0.0394	0
Cobalt (mg/L)	WT-4	17	0.001058	0.001237	0.0003001	0.0005	0.000437	0.00146	0.000101	0.00511	23.53
Cobalt (mg/L)	WT-OF	4	0.000877	0.0002338	0.0001169	0.000825	0.0007135	0.001041	0.000658	0.0012	0
Copper (mg/L)	ST-1	5	0.02	0	0	0.02	0.02	0.02	0.02	0.02	100
Copper (mg/L)	WT-1	26	0.004972	0.001194	0.0002341	0.005	0.005	0.005	0.00171	0.00956	88.46
Copper (mg/L)	WT-2	28	0.0018	0	0	0.0018	0.0018	0.0018	0.0018	0.0018	100
Copper (mg/L)	WT-3	17	0.004909	0.0004431	0.0001075	0.005	0.005	0.005	0.0032	0.0052	82.35
Copper (mg/L)	WT-4	17	0.004912	0.0002679	0.00006499	0.005	0.005	0.005	0.00395	0.005	82.35
Copper (mg/L)	WT-OF	5	0.0018	0	0	0.0018	0.0018	0.0018	0.0018	0.0018	100
Lead (mg/L)	ST-1	6	0.003933	0.0001633	0.00006667	0.004	0.0038	0.004	0.0036	0.004	83.33
Lead (mg/L)	WT-1	26	0.0007536	0.001074	0.0002107	0.0005	0.0005	0.0005255	0.000421	0.00597	69.23

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 11:49 AM

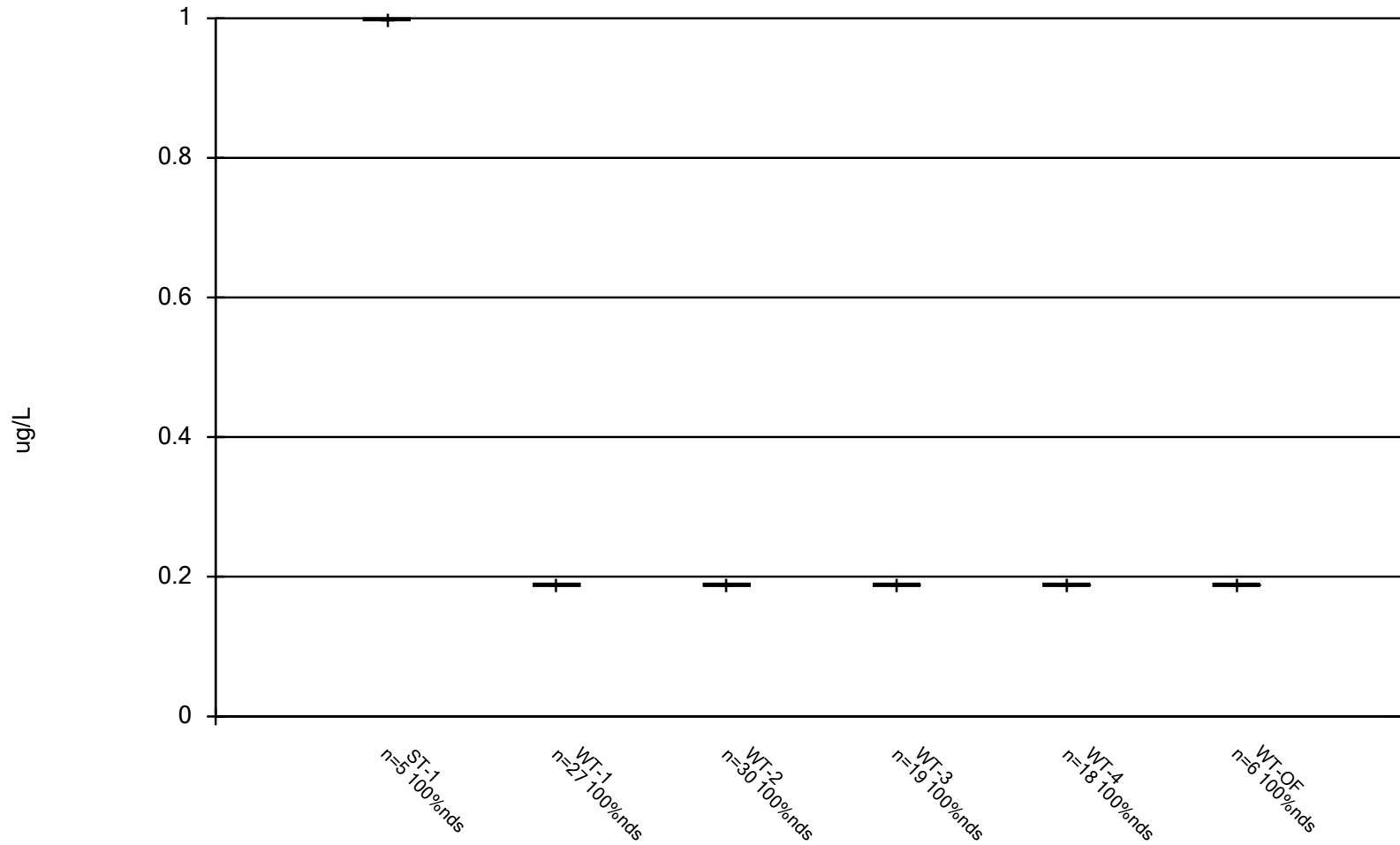
<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
Lead (mg/L)	WT-2	28	0.0004875	0.00004852	0.00000917	0.0005	0.0005	0.0005	0.000334	0.000575	85.71
Lead (mg/L)	WT-3	15	0.0005747	0.0002892	0.00007467	0.0005	0.0005	0.0005	0.0005	0.00162	93.33
Lead (mg/L)	WT-4	16	0.0006995	0.0006225	0.0001556	0.0005	0.0005	0.0005	0.000206	0.00269	68.75
Lead (mg/L)	WT-OF	5	0.00026	0	0	0.00026	0.00026	0.00026	0.00026	0.00026	100
Nickel (mg/L)	ST-1	5	0.042	0.01789	0.008	0.05	0.03	0.05	0.01	0.05	80
Nickel (mg/L)	WT-1	26	0.007806	0.005272	0.001034	0.005	0.00469	0.011	0.002	0.0256	30.77
Nickel (mg/L)	WT-2	27	0.02155	0.02082	0.004007	0.00904	0.00438	0.05	0.0015	0.05	33.33
Nickel (mg/L)	WT-3	16	0.007673	0.007616	0.001904	0.005085	0.002375	0.00848	0.0009	0.025	12.5
Nickel (mg/L)	WT-4	17	0.01092	0.008822	0.00214	0.01	0.004035	0.0137	0.0023	0.0336	11.76
Nickel (mg/L)	WT-OF	5	0.01899	0.01726	0.007718	0.0136	0.006835	0.03385	0.00488	0.0483	0
Selenium (mg/L)	ST-1	6	0.00465	0.0008573	0.00035	0.005	0.00395	0.005	0.0029	0.005	83.33
Selenium (mg/L)	WT-1	28	0.001502	0.0003658	0.00006914	0.0014	0.0014	0.0014	0.00103	0.0029	85.71
Selenium (mg/L)	WT-2	30	0.001433	0.0001276	0.0000233	0.0014	0.0014	0.0014	0.0014	0.002	93.33
Selenium (mg/L)	WT-3	17	0.001408	0.00003395	0.000008235	0.0014	0.0014	0.0014	0.0014	0.00154	94.12
Selenium (mg/L)	WT-4	16	0.00141	0.00002733	0.000006831	0.0014	0.0014	0.0014	0.0014	0.00148	87.5
Selenium (mg/L)	WT-OF	5	0.00146	0.0001342	0.00006	0.0014	0.0014	0.00155	0.0014	0.0017	80
Silver (mg/L)	ST-1	5	0.02	0	0	0.02	0.02	0.02	0.02	0.02	100
Silver (mg/L)	WT-1	27	0.0005033	0.00001732	0.000003333	0.0005	0.0005	0.0005	0.0005	0.00059	96.3
Silver (mg/L)	WT-2	29	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Silver (mg/L)	WT-3	18	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Silver (mg/L)	WT-4	17	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Silver (mg/L)	WT-OF	5	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Thallium (mg/L)	ST-1	5	0.002	0	0	0.002	0.002	0.002	0.002	0.002	100
Thallium (mg/L)	WT-1	27	0.0005563	0.00007121	0.0000137	0.00057	0.00057	0.00057	0.0002	0.00057	96.3
Thallium (mg/L)	WT-2	28	0.0005362	0.0001193	0.00002254	0.00057	0.00057	0.00057	0.000044	0.00057	89.29
Thallium (mg/L)	WT-3	18	0.00057	0	0	0.00057	0.00057	0.00057	0.00057	0.00057	100
Thallium (mg/L)	WT-4	17	0.00057	0	0	0.00057	0.00057	0.00057	0.00057	0.00057	100
Thallium (mg/L)	WT-OF	5	0.00057	0	0	0.00057	0.00057	0.00057	0.00057	0.00057	100
Vanadium (mg/L)	ST-1	5	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Vanadium (mg/L)	WT-1	26	0.005252	0.003416	0.0006699	0.005	0.005	0.005	0.00114	0.021	80.77
Vanadium (mg/L)	WT-2	28	0.004575	0.001254	0.000237	0.005	0.005	0.005	0.000598	0.005	89.29
Vanadium (mg/L)	WT-3	16	0.005127	0.0005075	0.0001269	0.005	0.005	0.005	0.005	0.00703	93.75
Vanadium (mg/L)	WT-4	16	0.00523	0.001604	0.000401	0.005	0.005	0.005	0.00142	0.00899	81.25
Vanadium (mg/L)	WT-OF	5	0.0011	0	0	0.0011	0.0011	0.0011	0.0011	0.0011	100
Zinc (mg/L)	ST-1	6	0.0809	0.03089	0.01261	0.1	0.0427	0.1	0.0287	0.1	66.67
Zinc (mg/L)	WT-1	28	0.02097	0.004496	0.0008496	0.02	0.02	0.02	0.00788	0.0335	82.14
Zinc (mg/L)	WT-2	29	0.01331	0.01398	0.002596	0.0097	0.0097	0.0097	0.00794	0.0822	82.76
Zinc (mg/L)	WT-3	15	0.01926	0.002249	0.0005806	0.02	0.02	0.02	0.0115	0.02	86.67
Zinc (mg/L)	WT-4	17	0.01865	0.002651	0.000643	0.02	0.0186	0.02	0.0128	0.02	76.47
Zinc (mg/L)	WT-OF	5	0.0097	0	0	0.0097	0.0097	0.0097	0.0097	0.0097	100

Box & Whiskers Plot



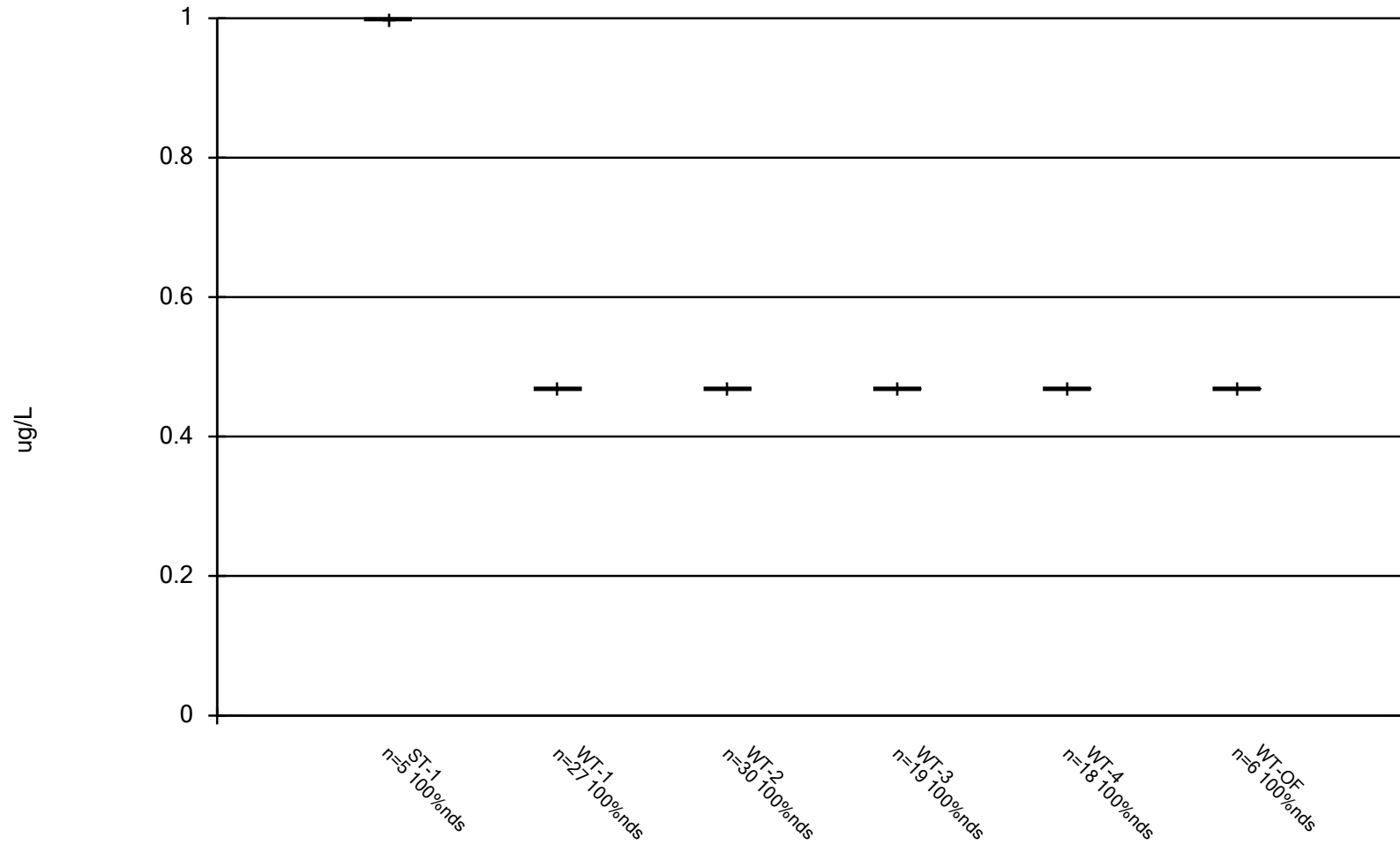
Constituent: 1,1,1,2-Tetrachloroethane Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



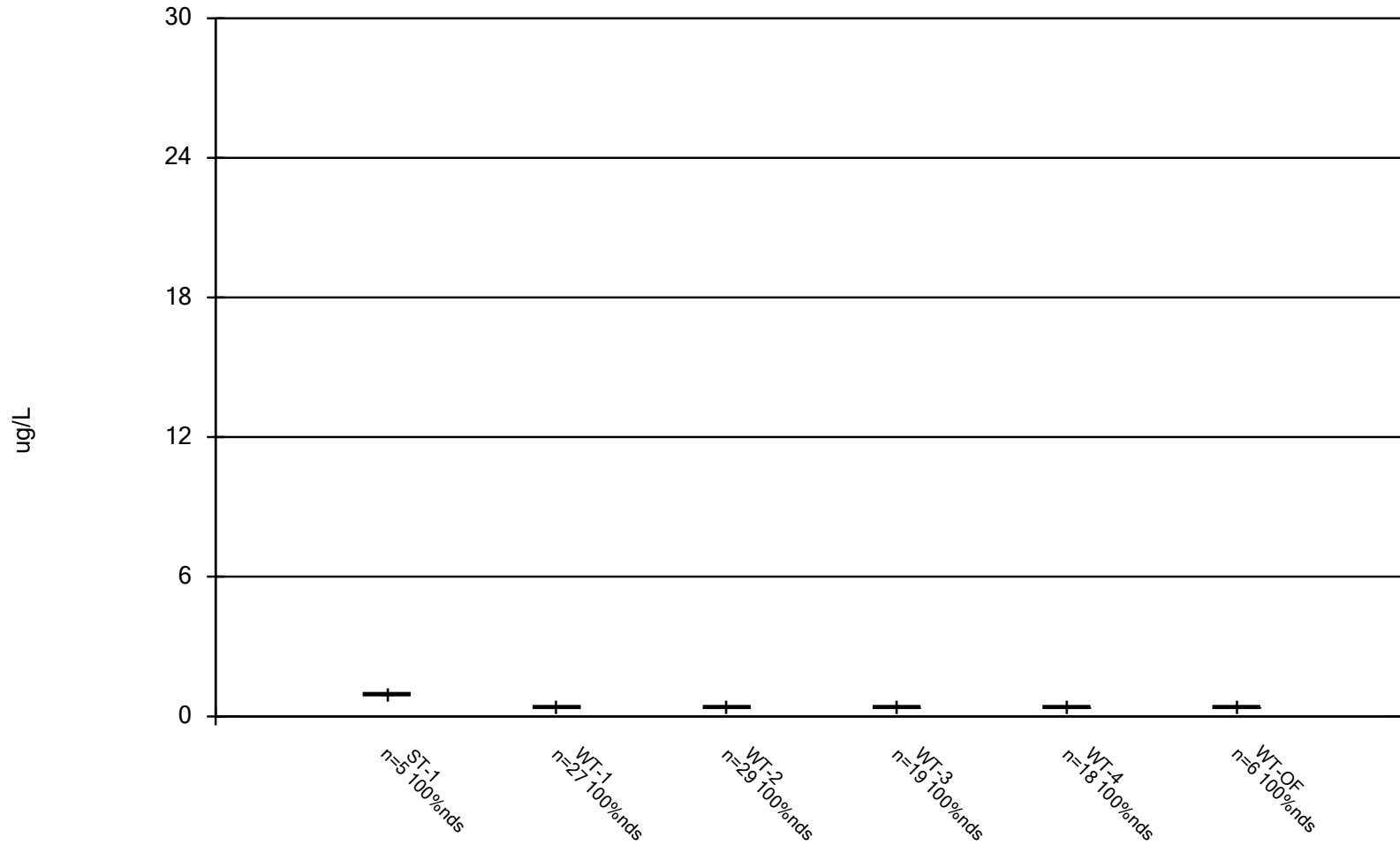
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



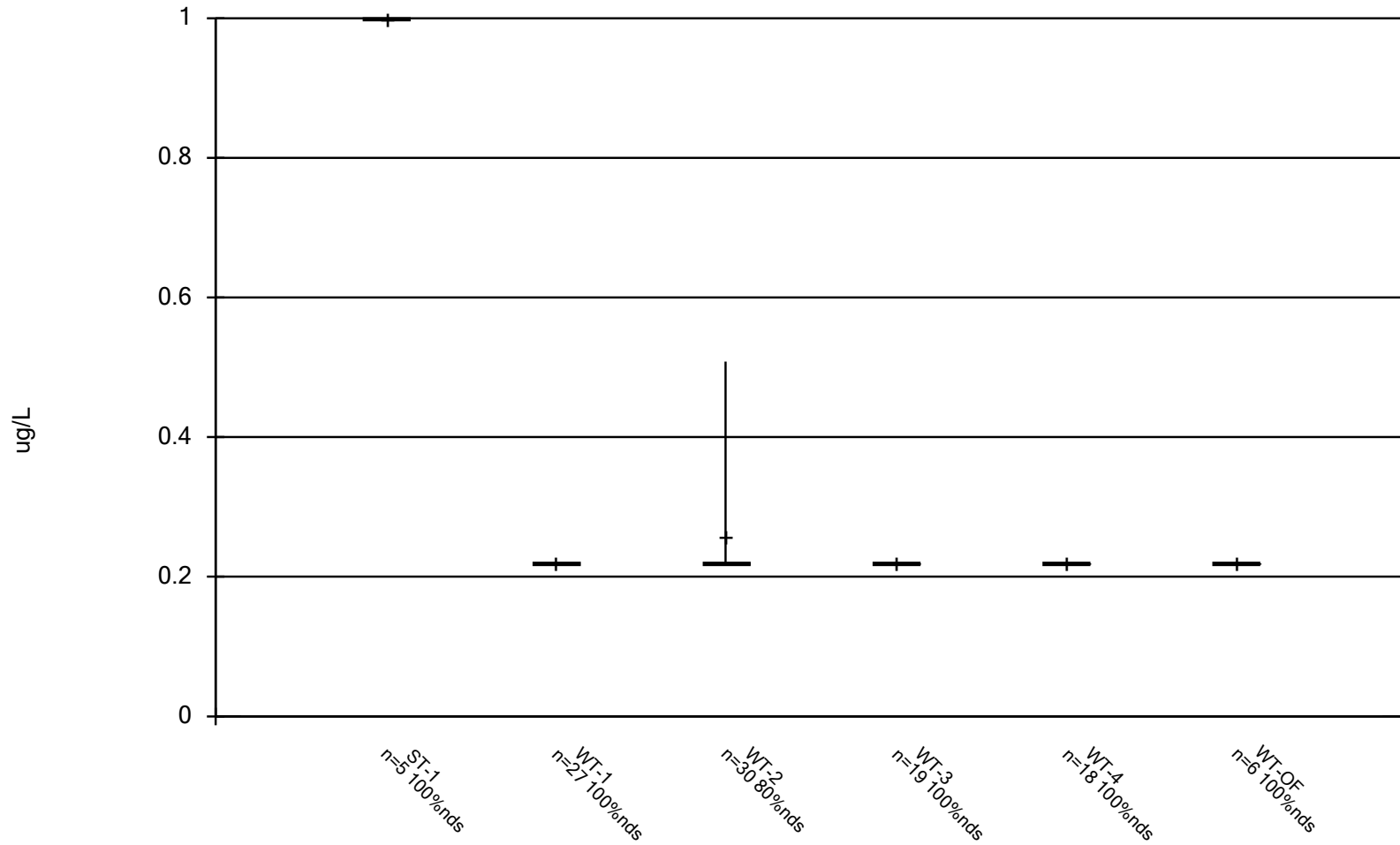
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: 1,1,2-Trichloroethane Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

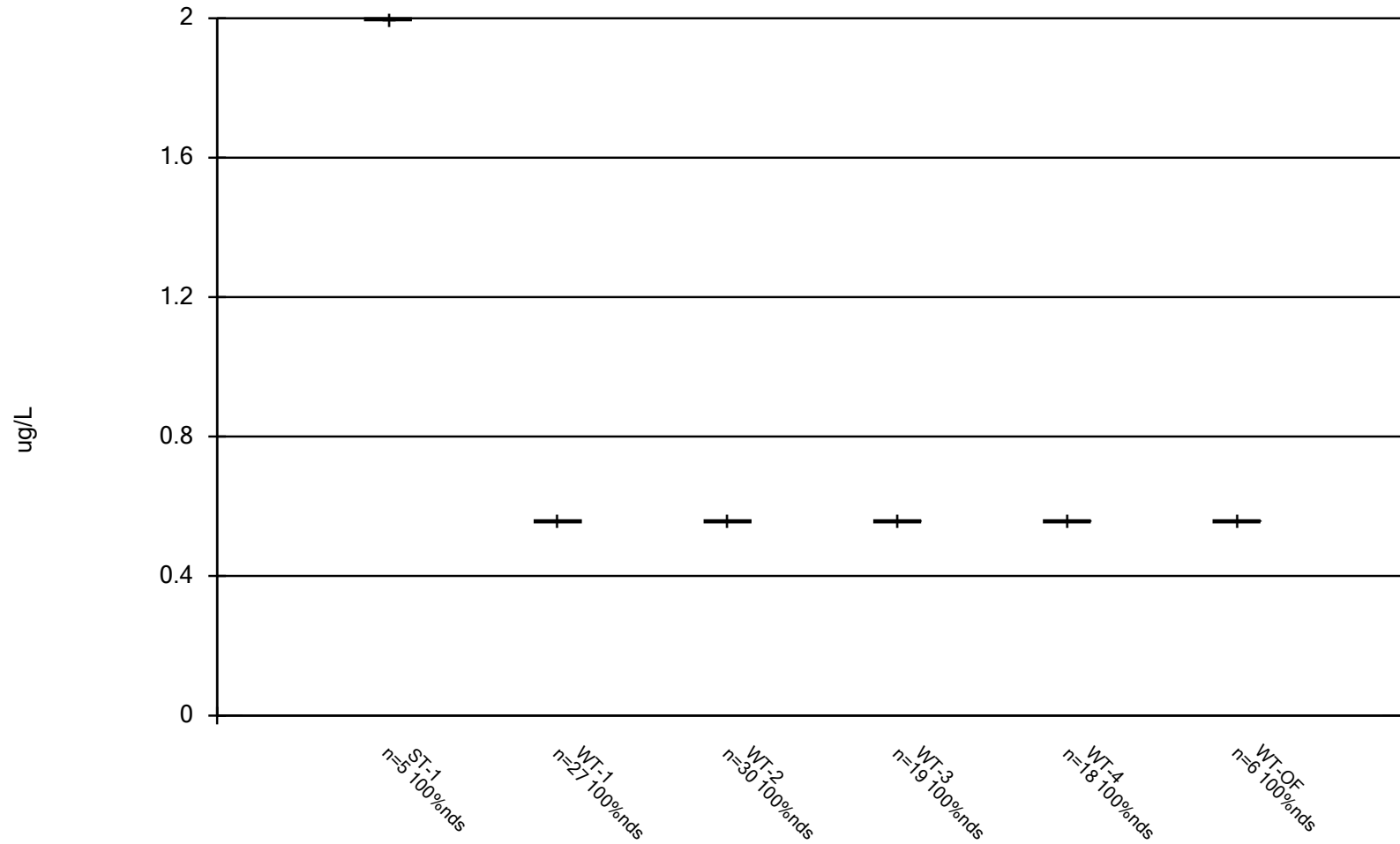
Box & Whiskers Plot



Constituent: 1,1-Dichloroethane Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics

Iowa City Landfill Data: Iowa City Sanitary Landfill

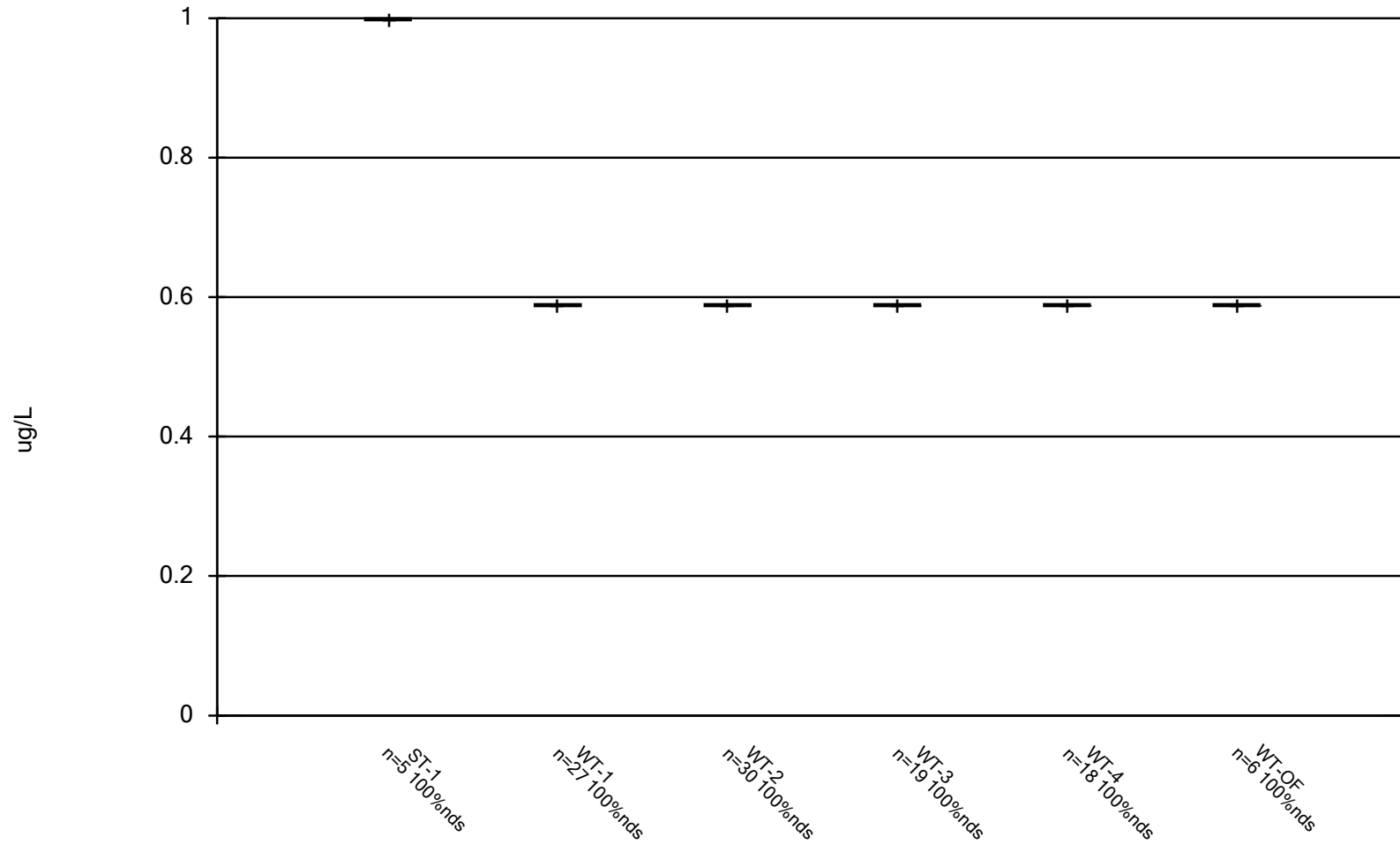
Box & Whiskers Plot



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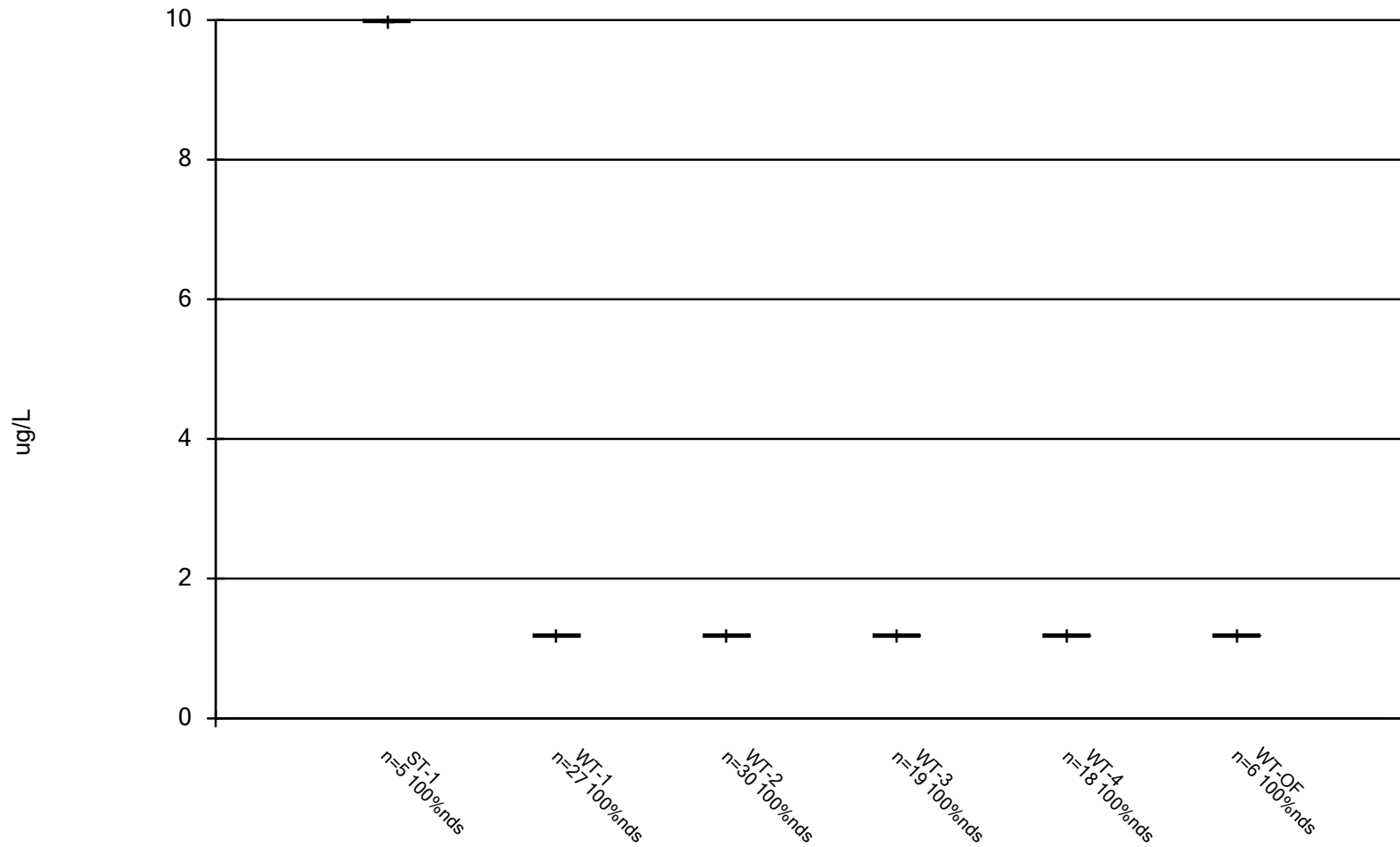
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



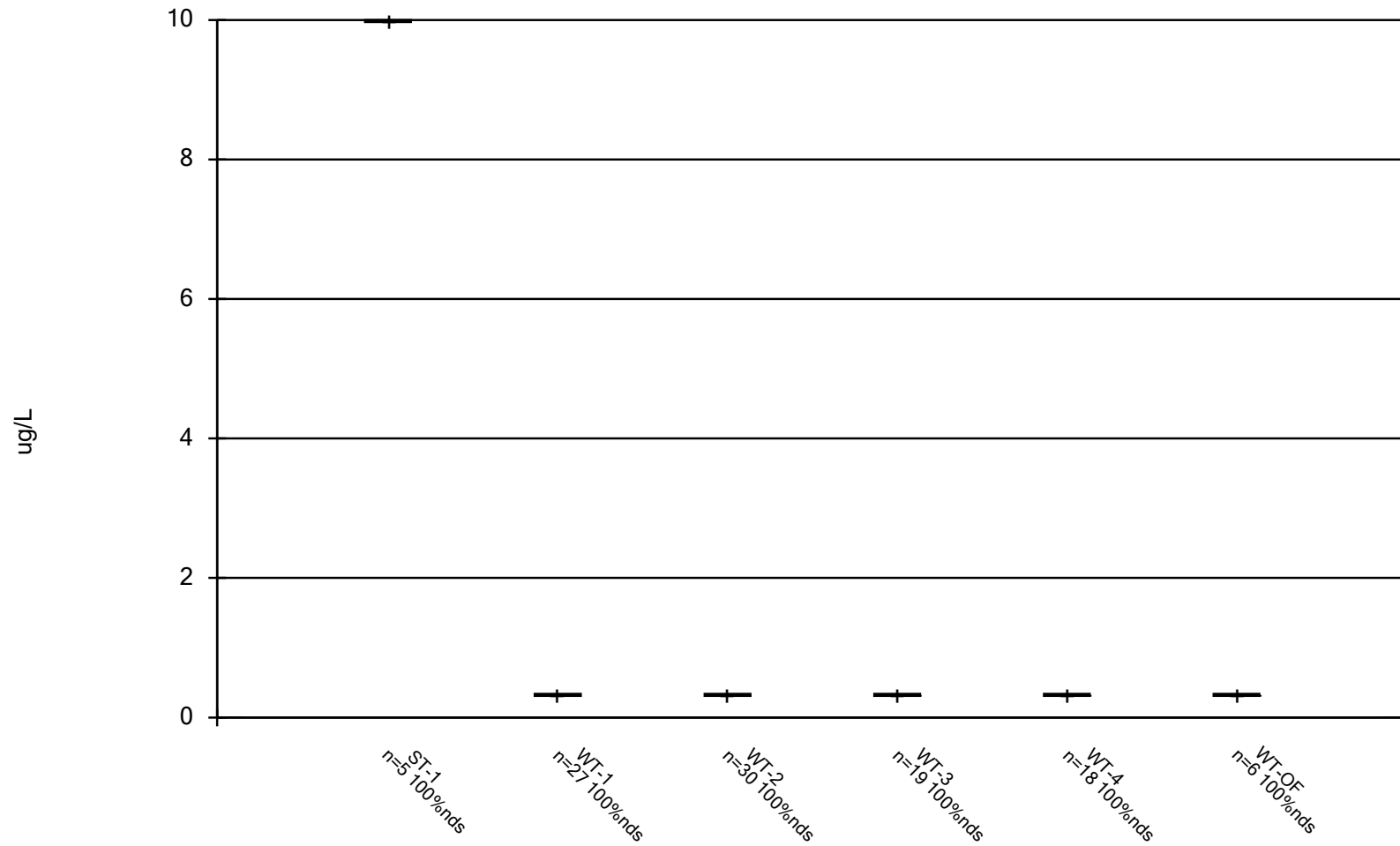
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



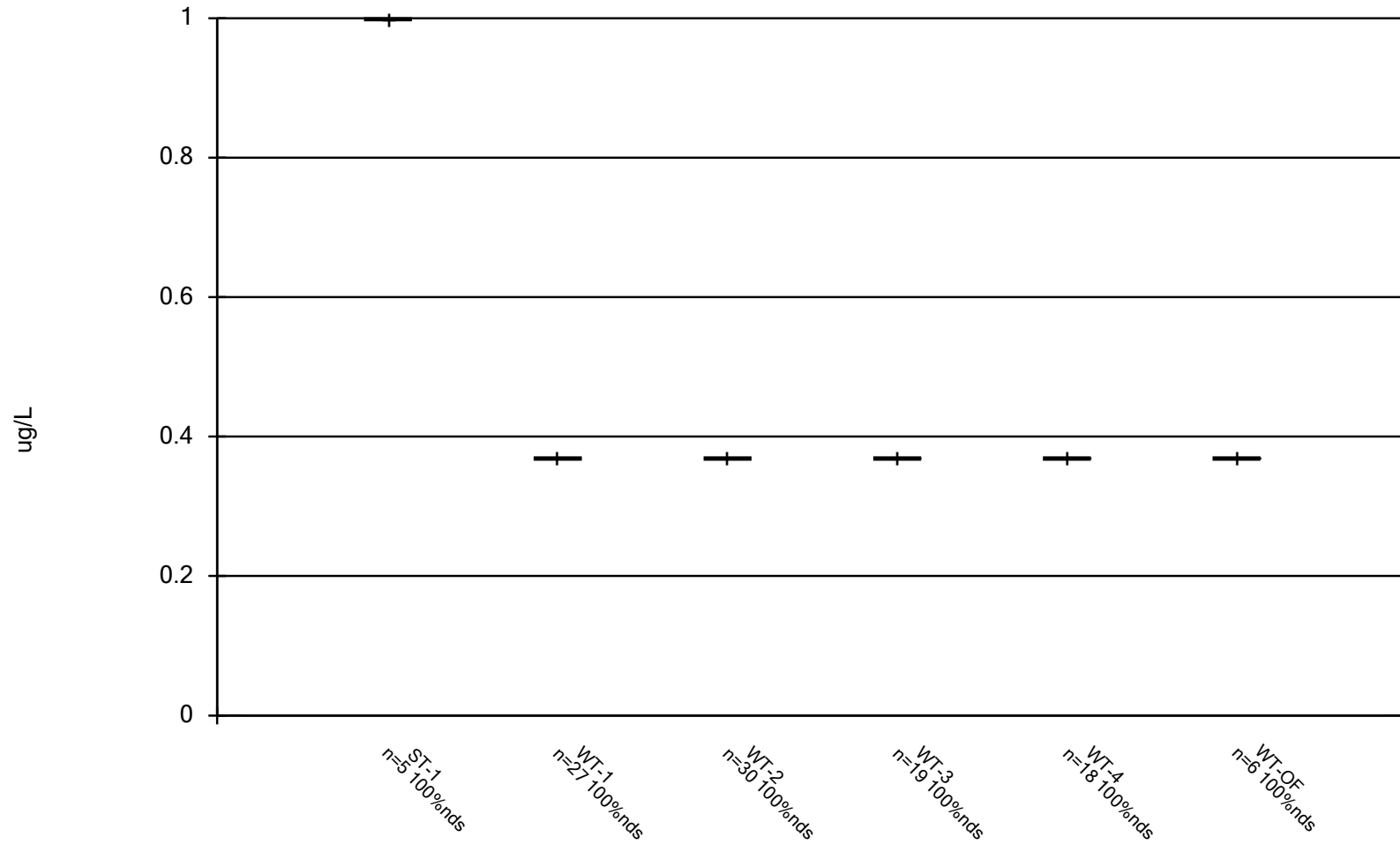
Constituent: 1,2-Dibromo-3-Chloropropane Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



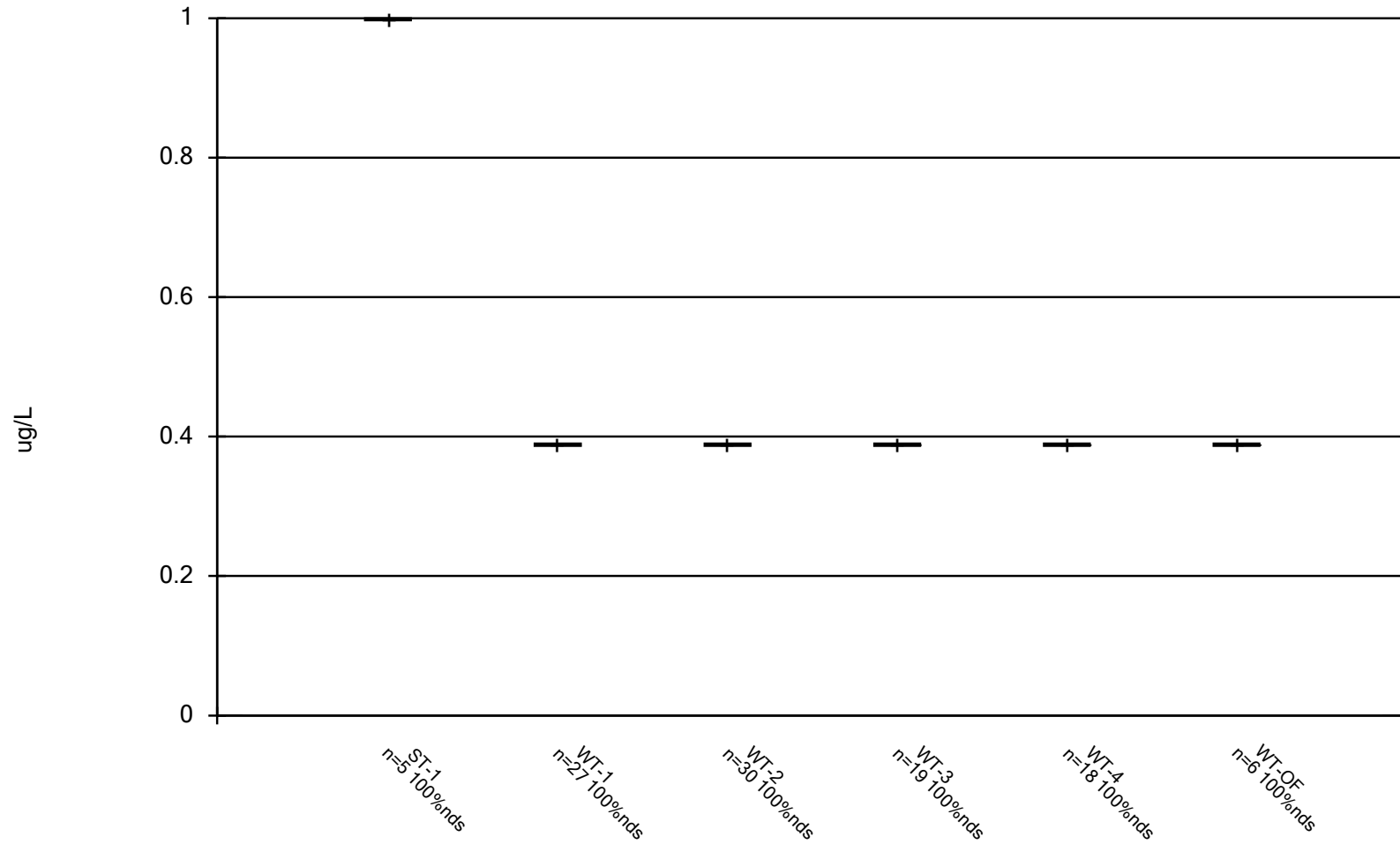
Constituent: 1,2-Dibromoethane [EDB] Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: 1,2-Dichlorobenzene Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics
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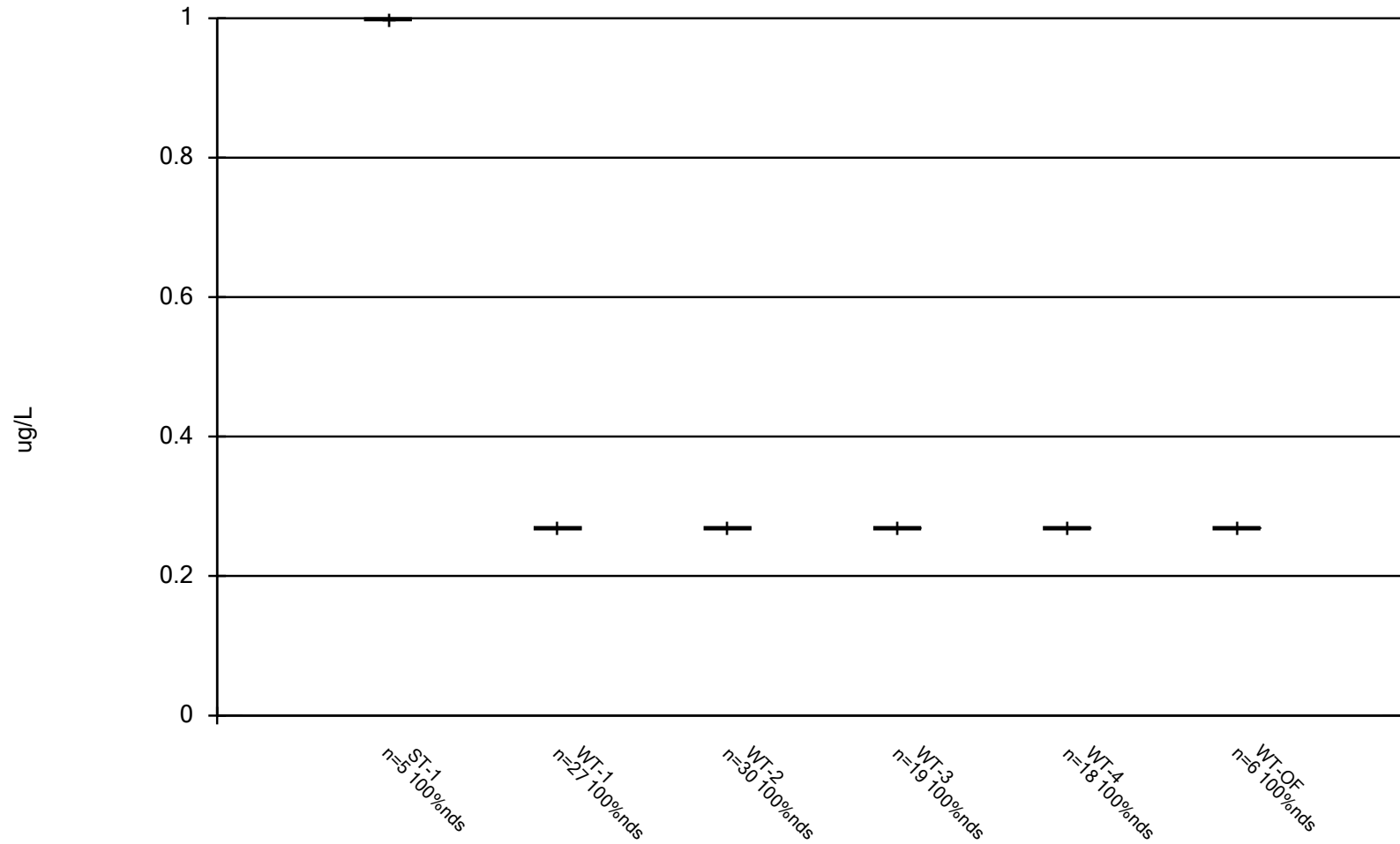
Box & Whiskers Plot



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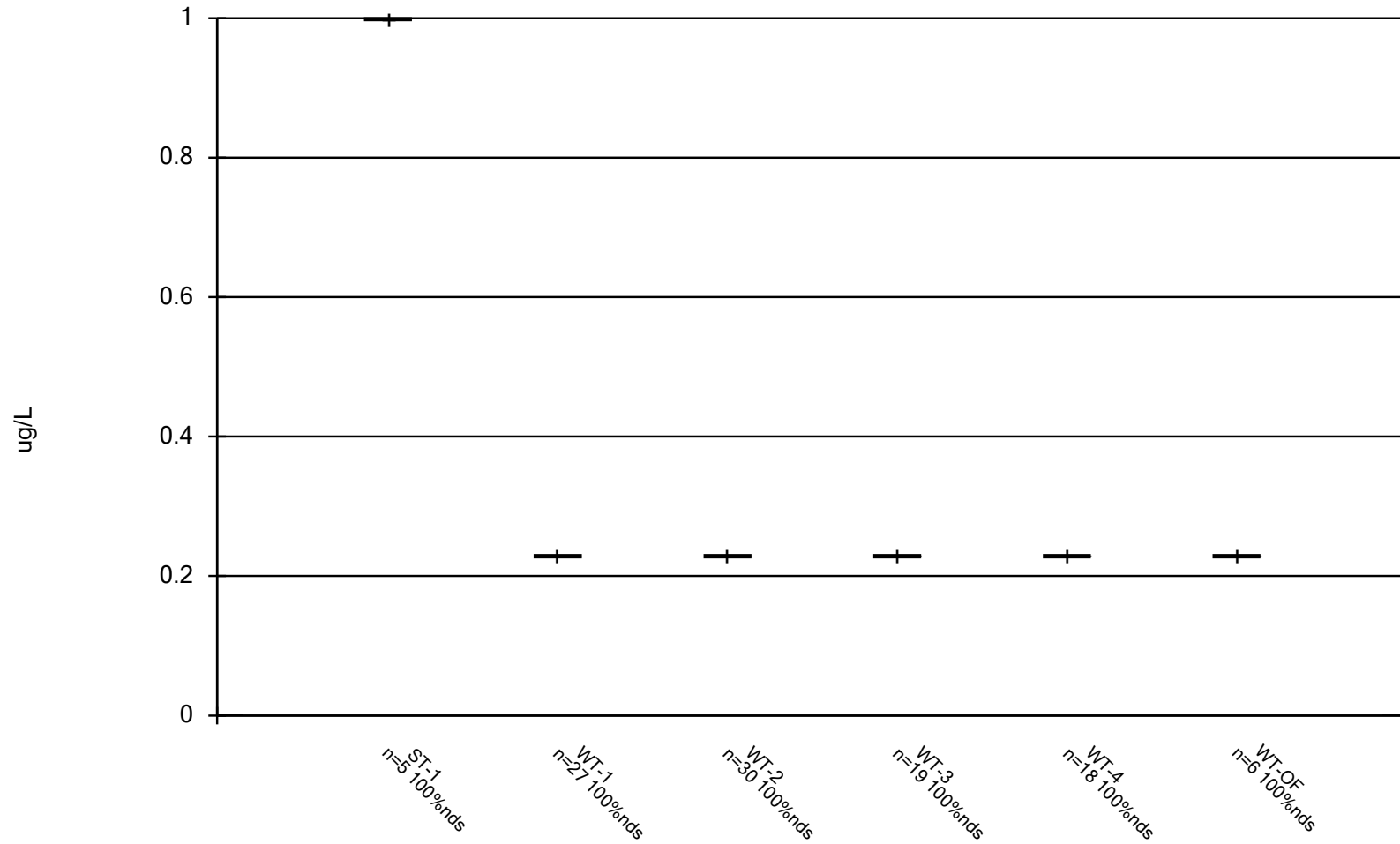
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Box & Whiskers Plot



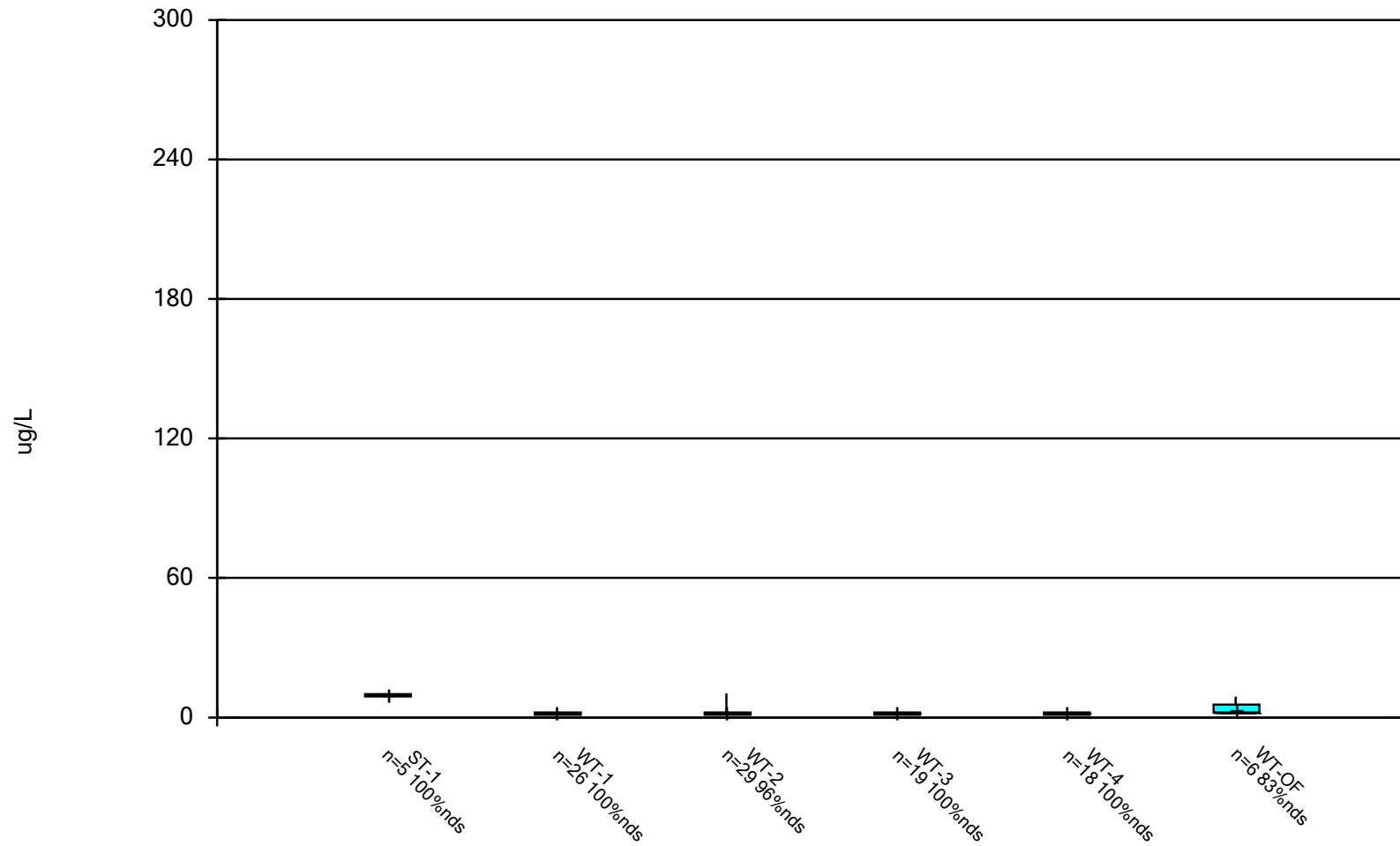
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Box & Whiskers Plot



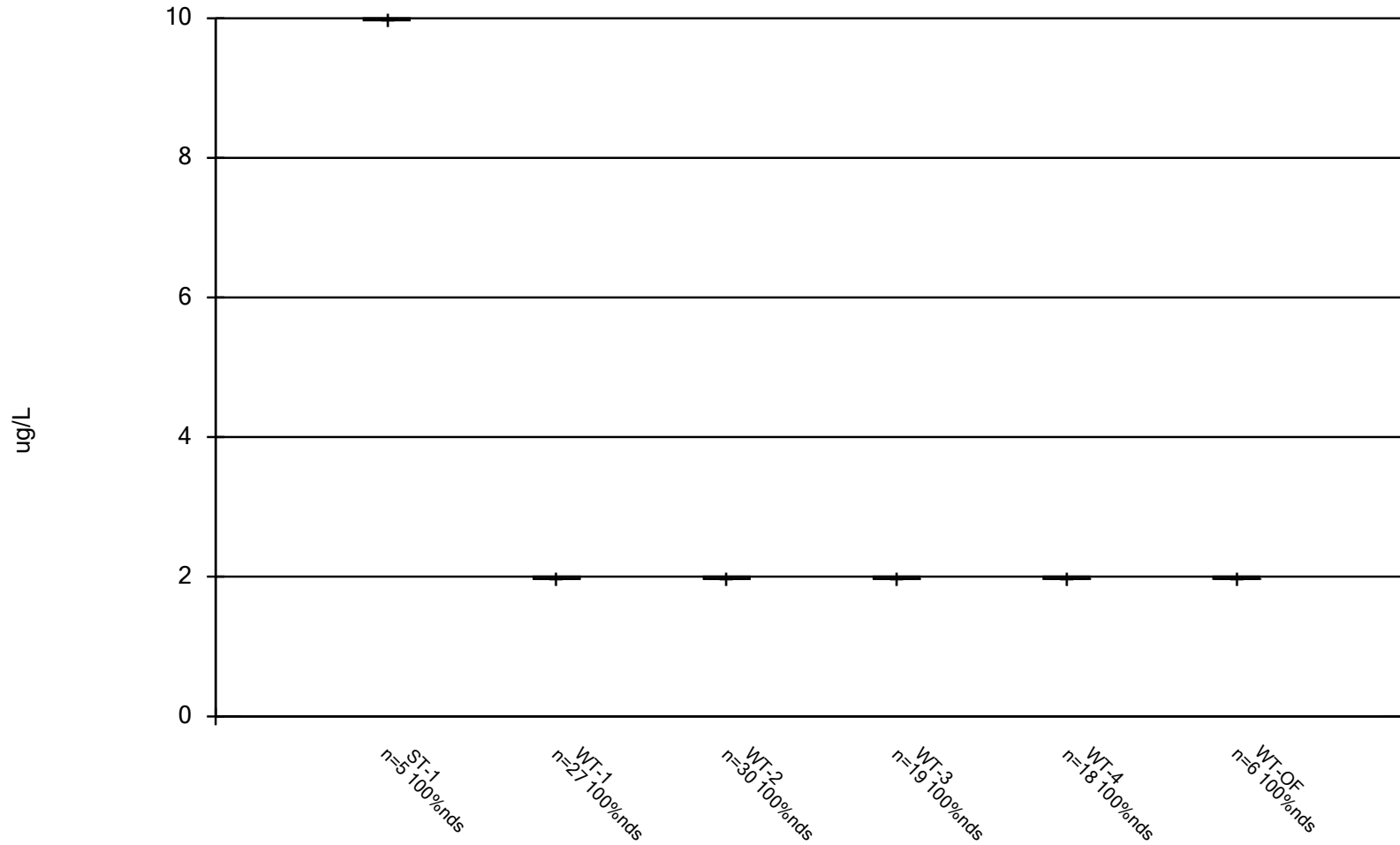
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Box & Whiskers Plot



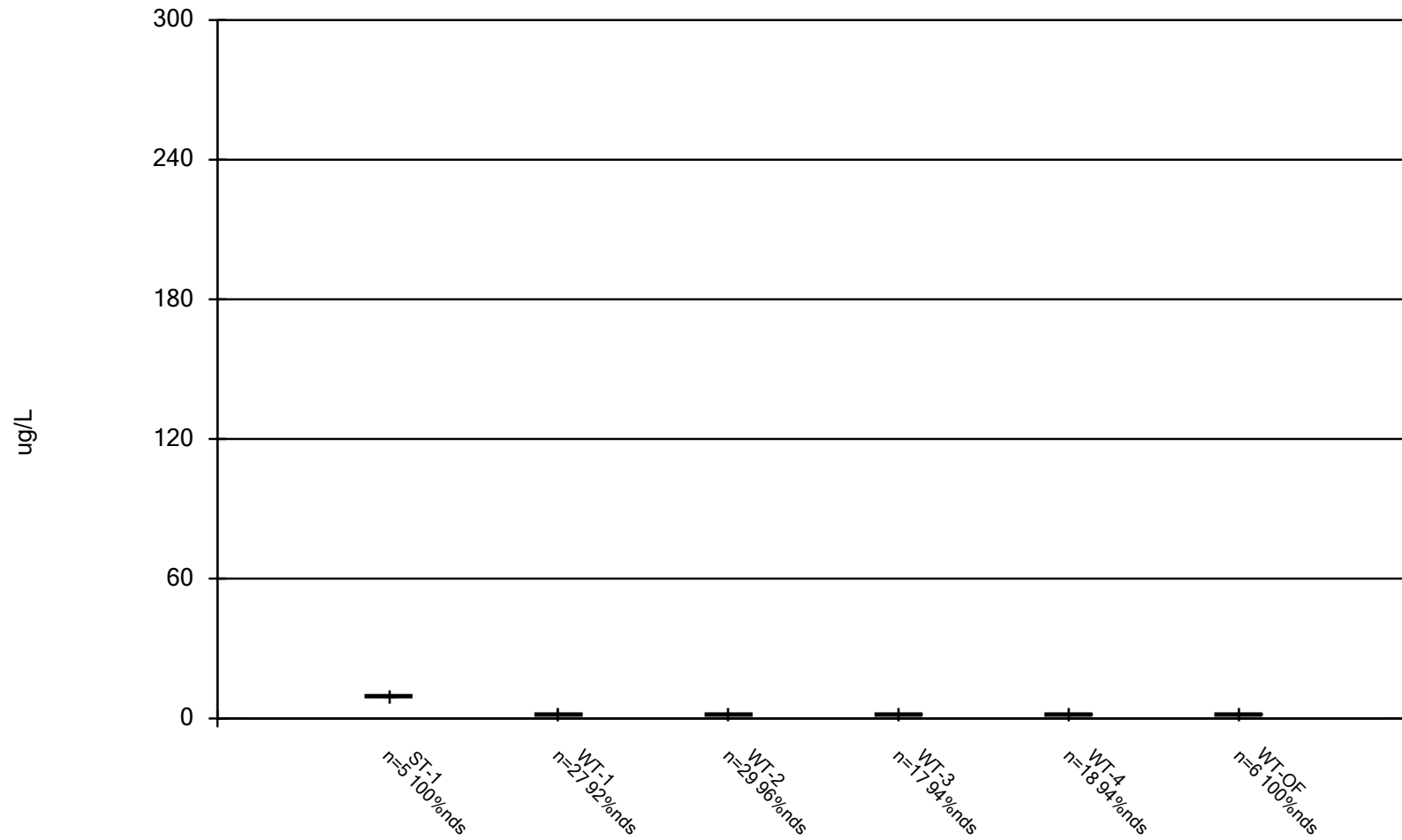
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



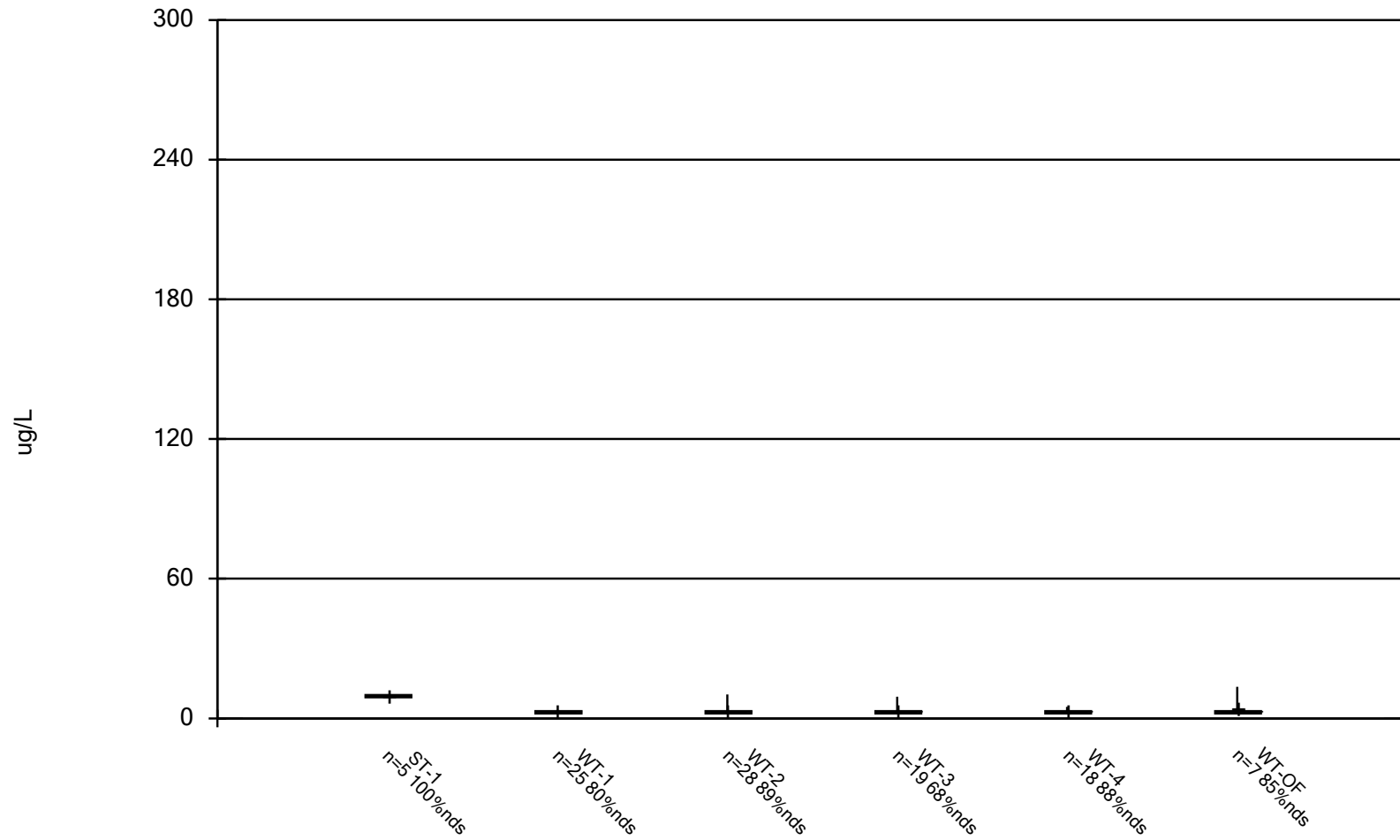
Constituent: 2-Hexanone Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

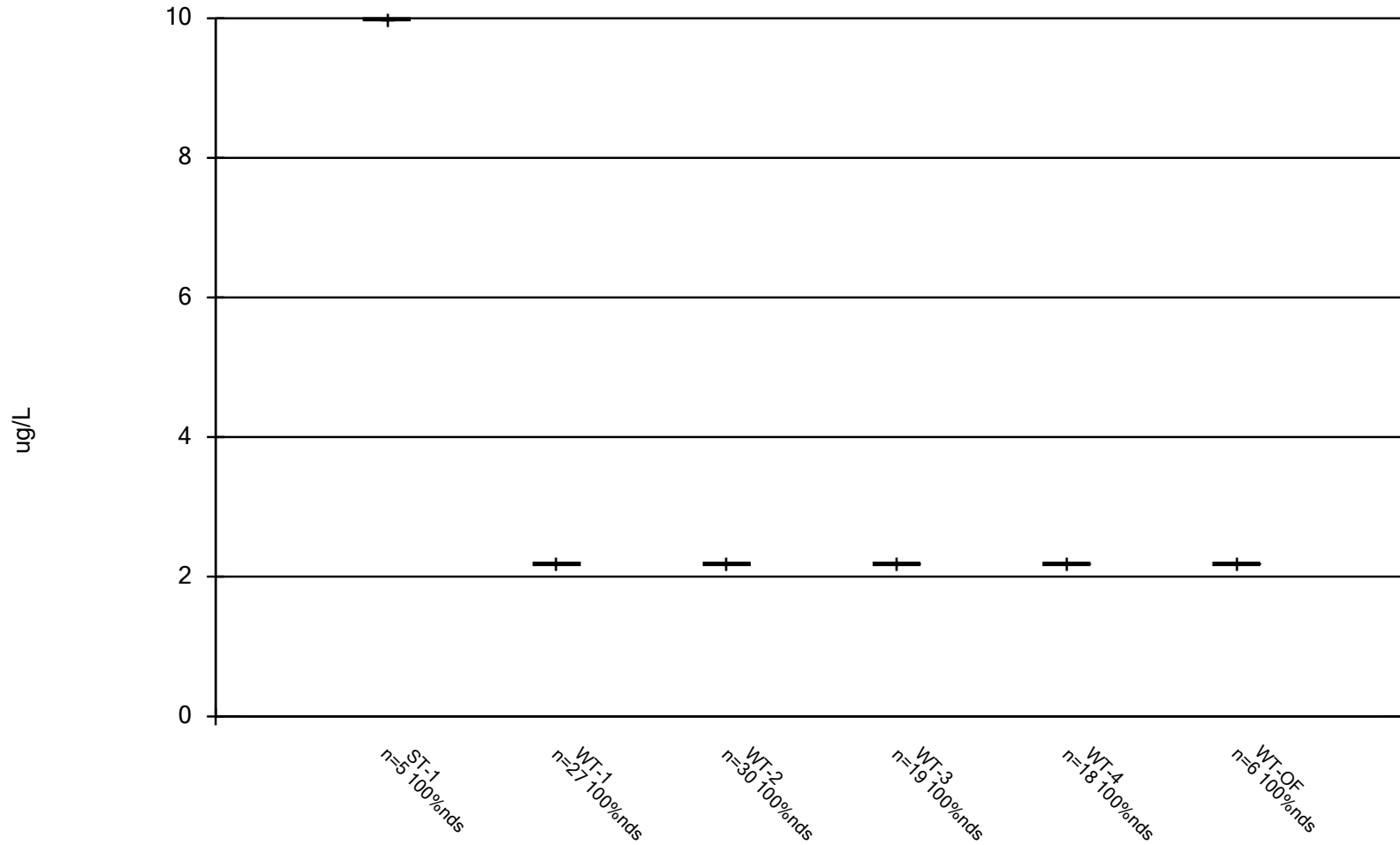
Box & Whiskers Plot



Constituent: Acetone Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics

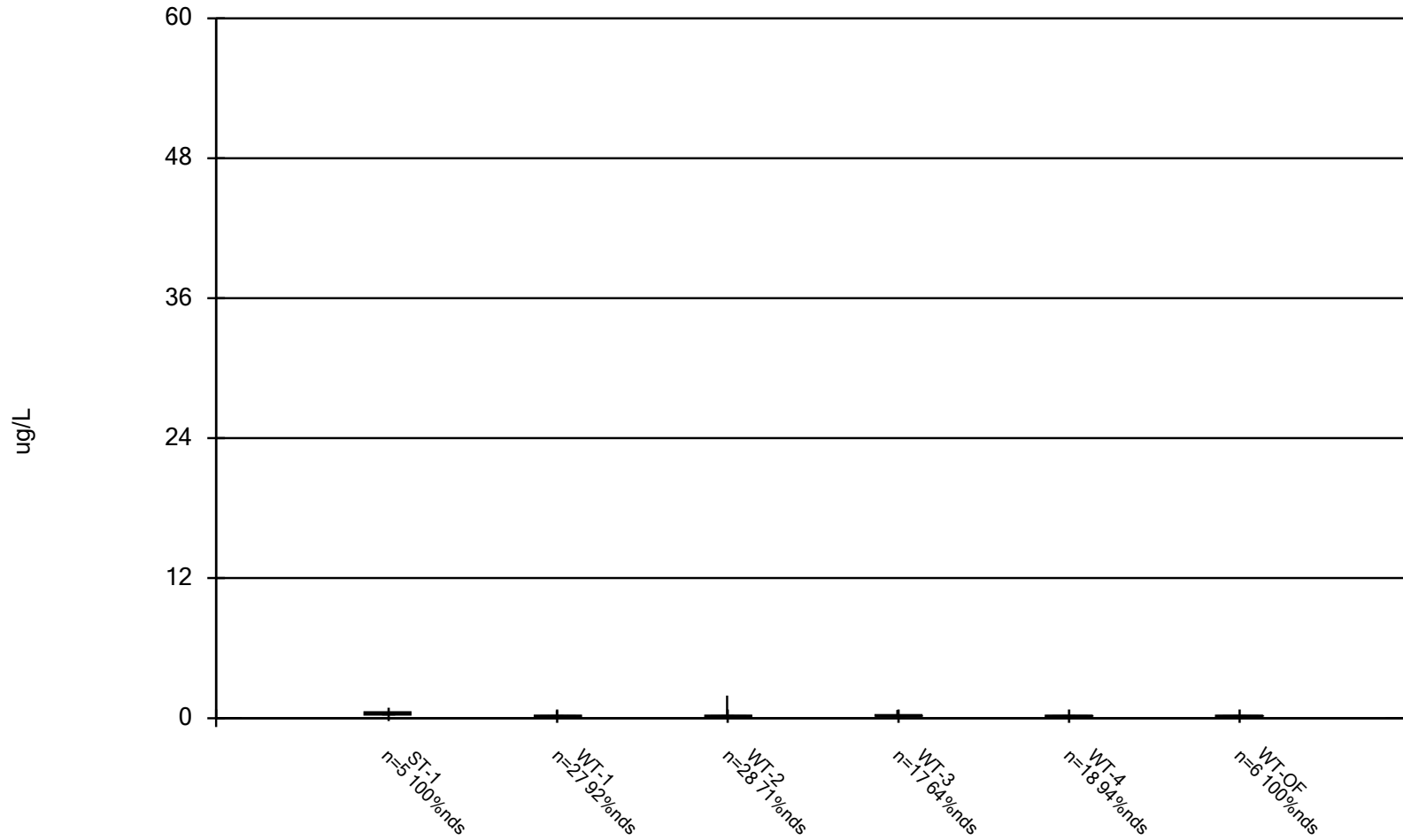
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Acrylonitrile Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics
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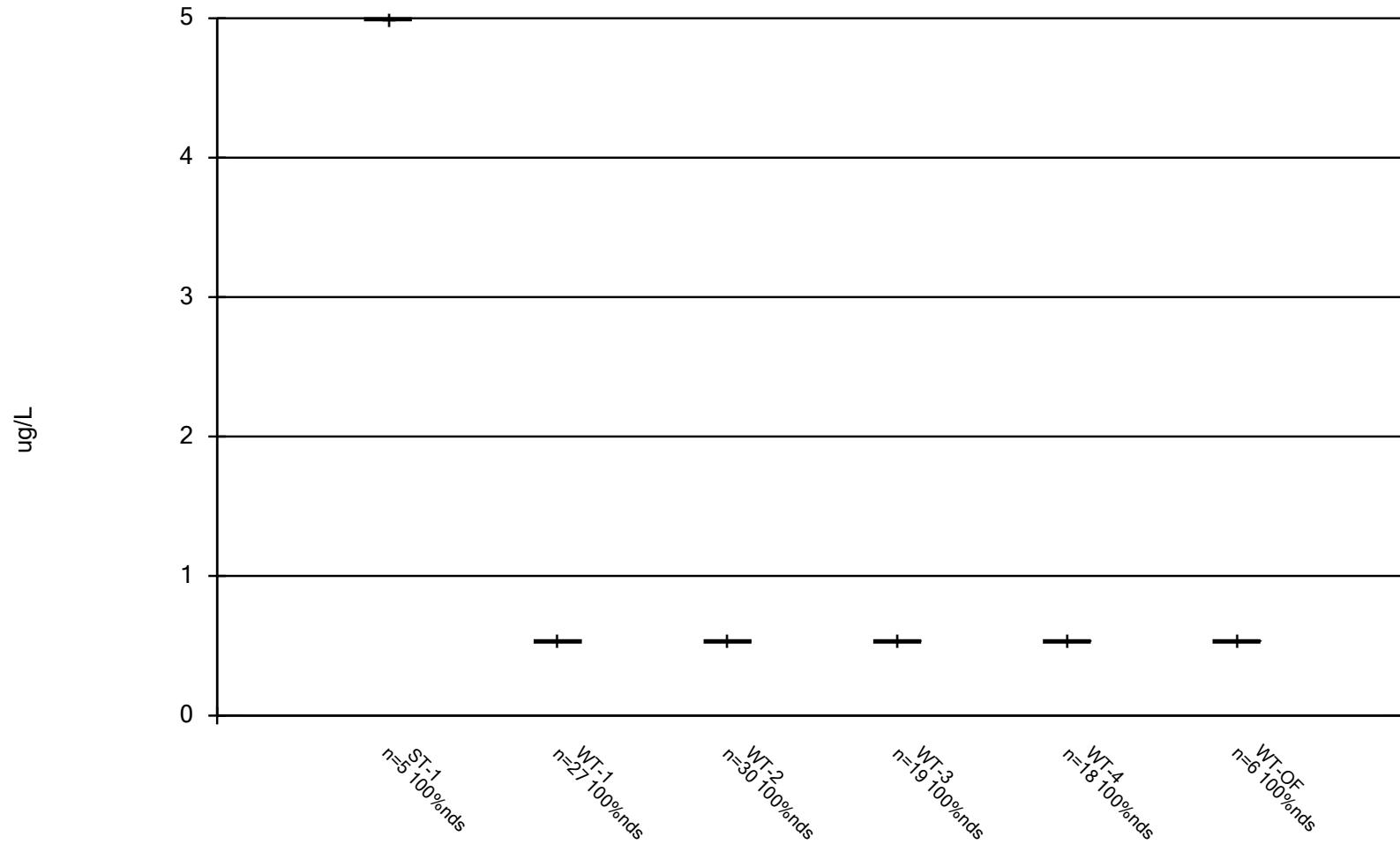
Box & Whiskers Plot



Constituent: Benzene Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics

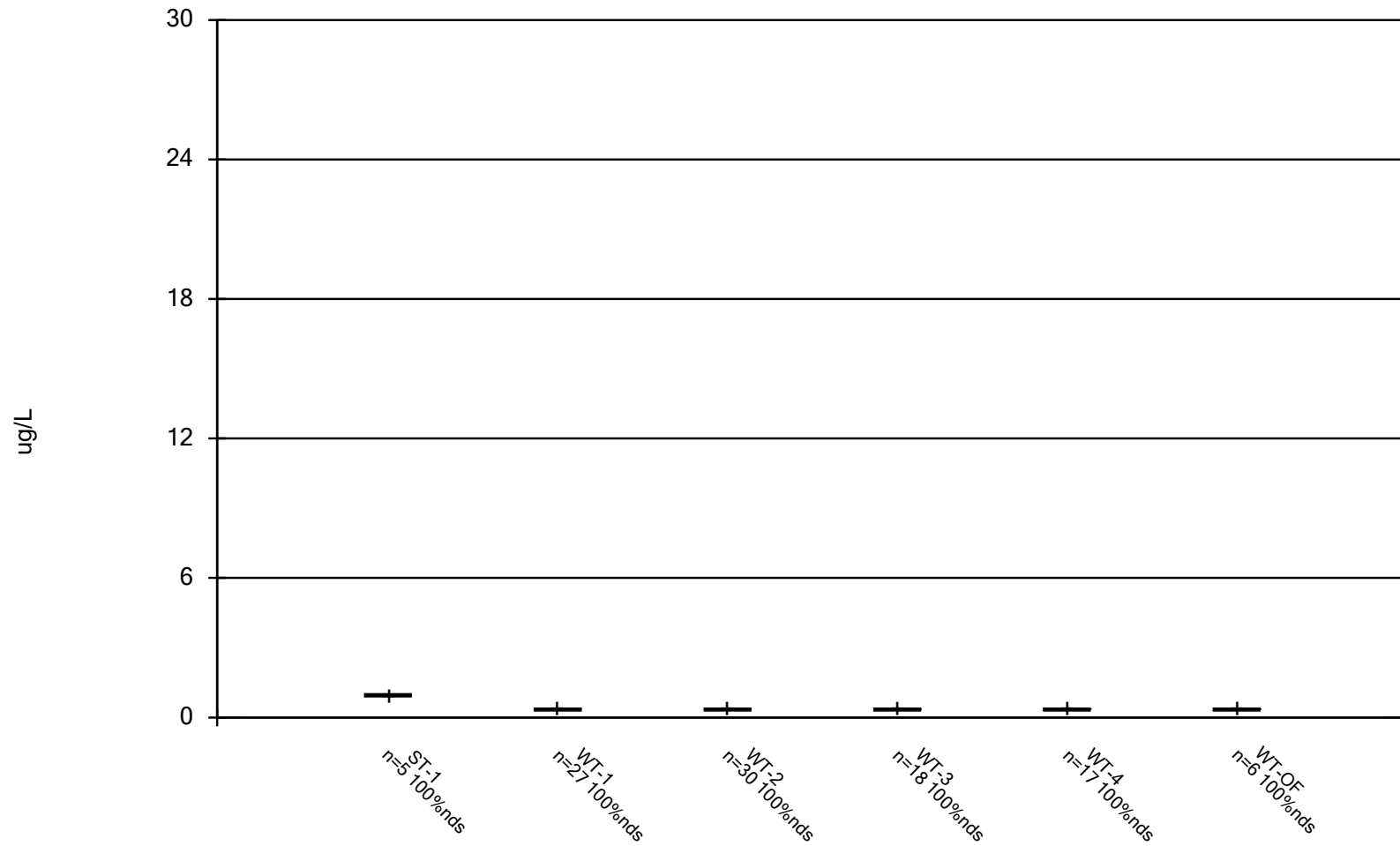
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Box & Whiskers Plot



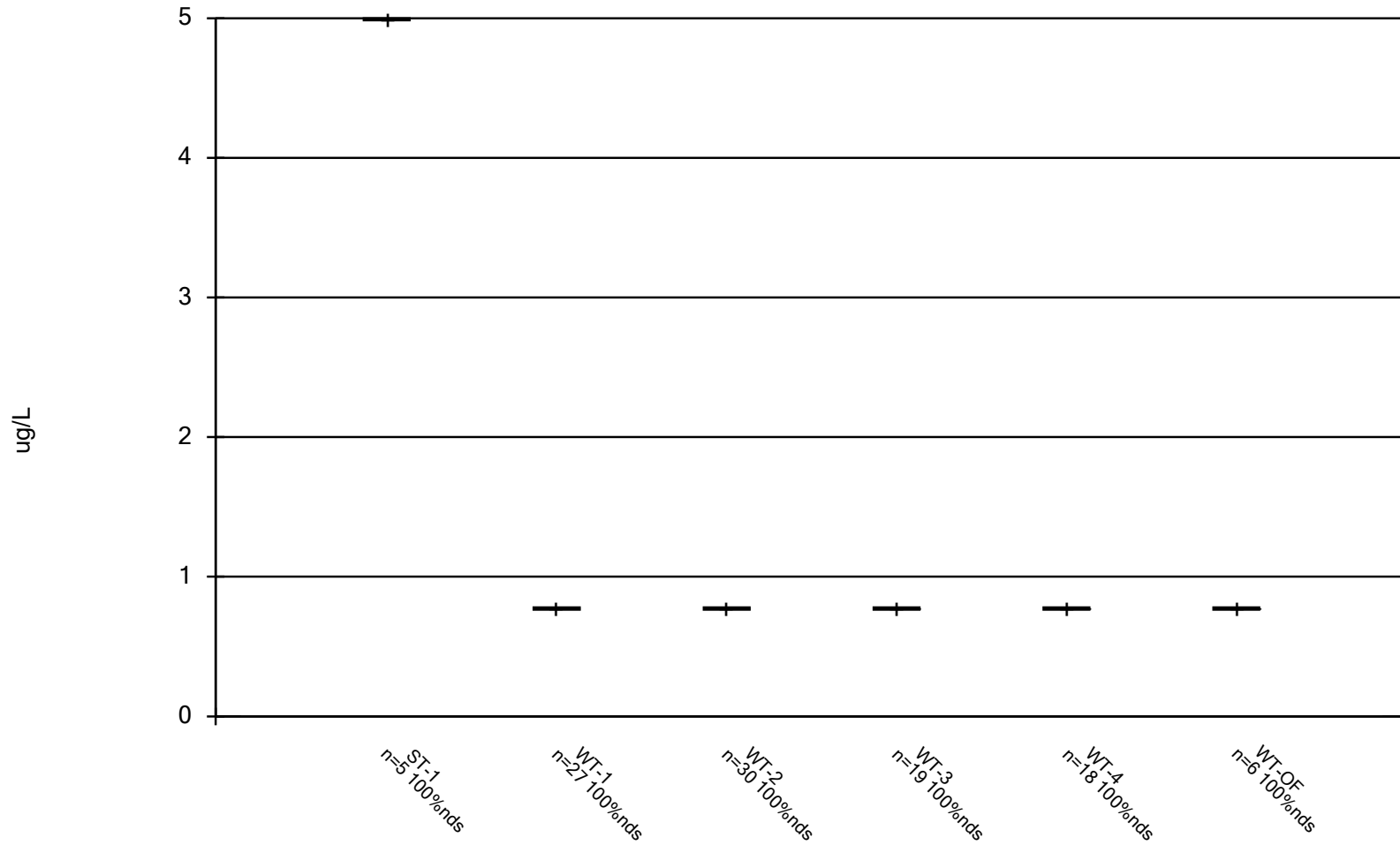
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Box & Whiskers Plot



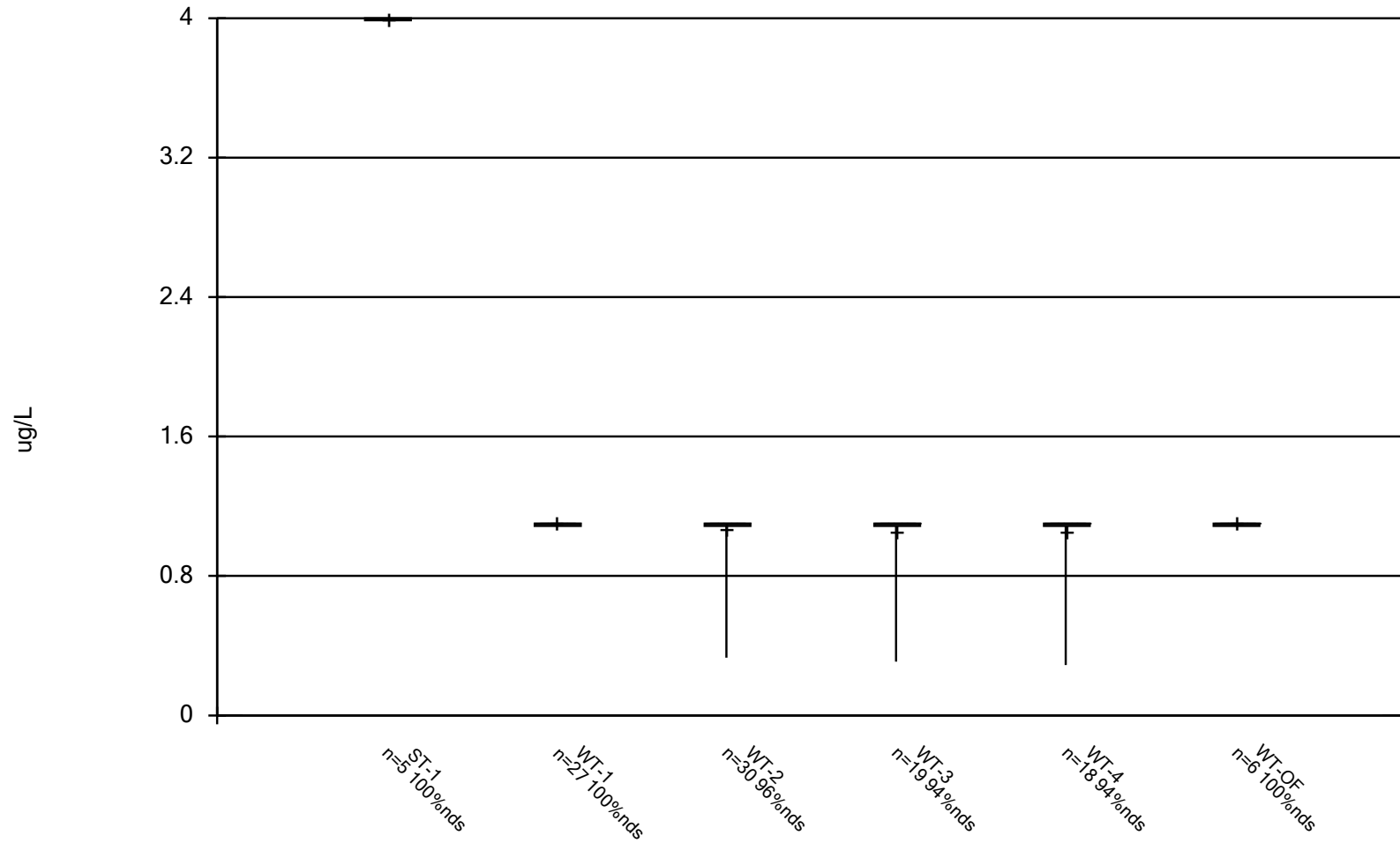
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Box & Whiskers Plot



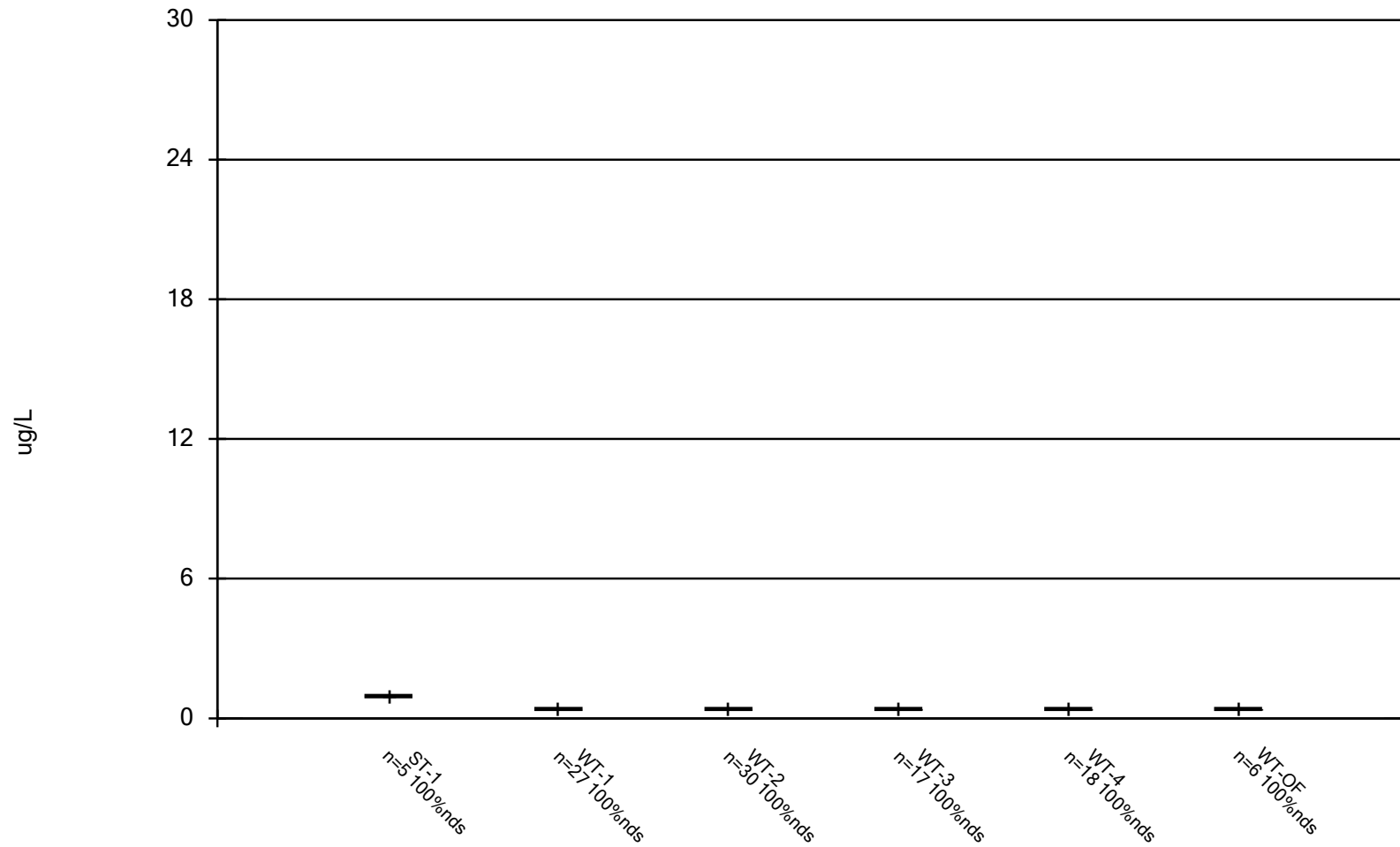
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Bromomethane Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

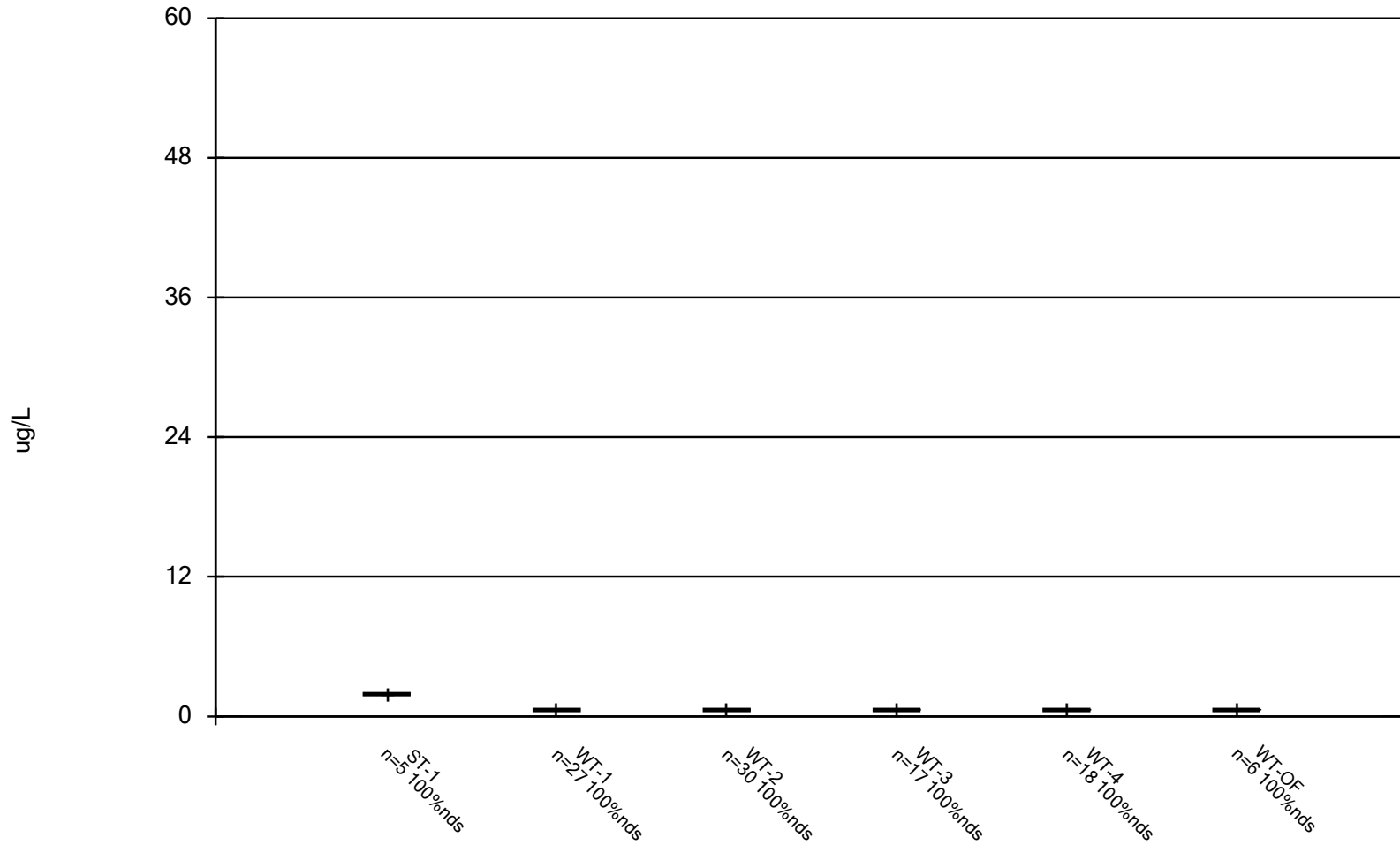
Box & Whiskers Plot



Constituent: Carbon Disulfide Analysis Run 1/21/2025 4:53 PM View: 02_GU_Organics

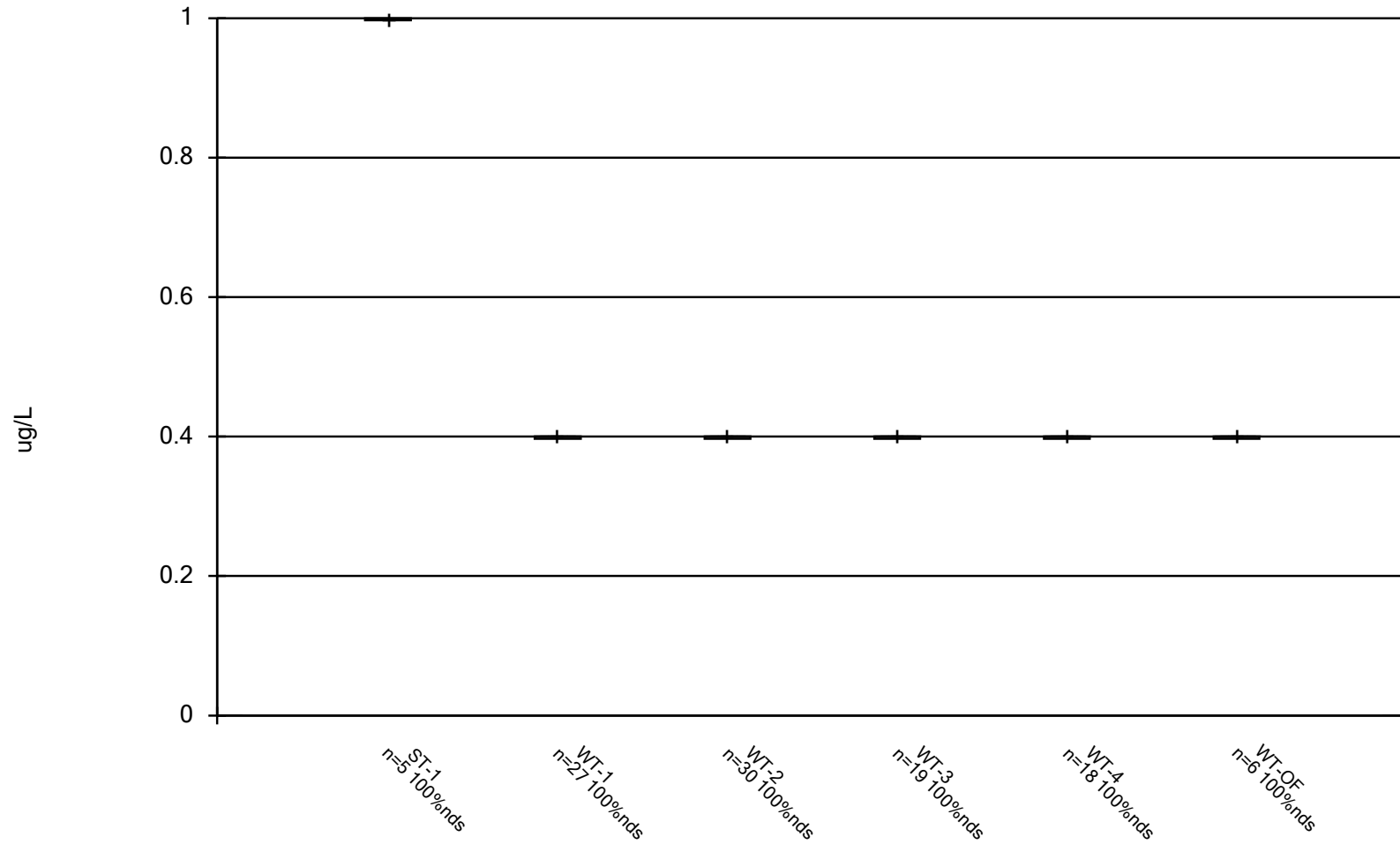
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



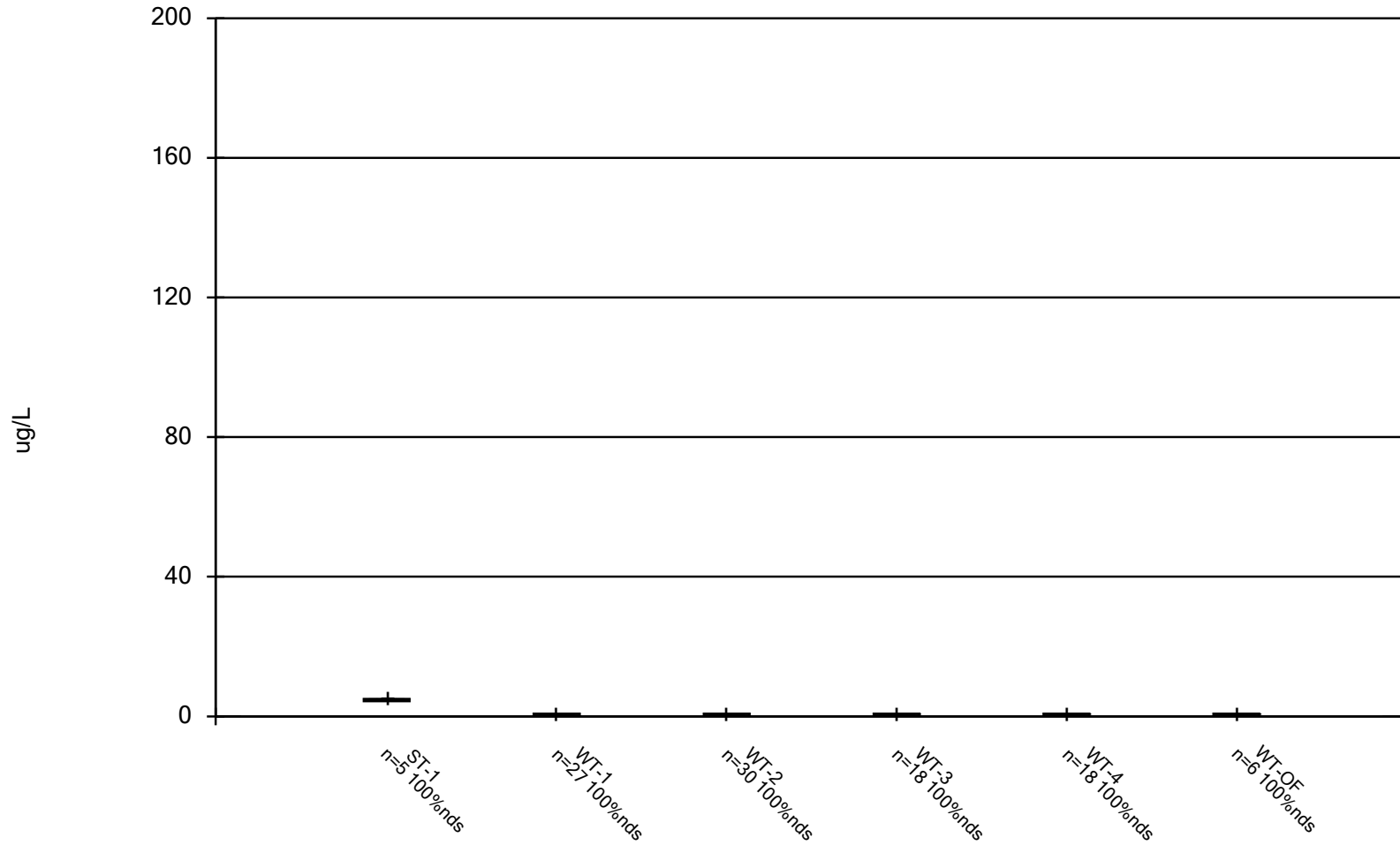
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



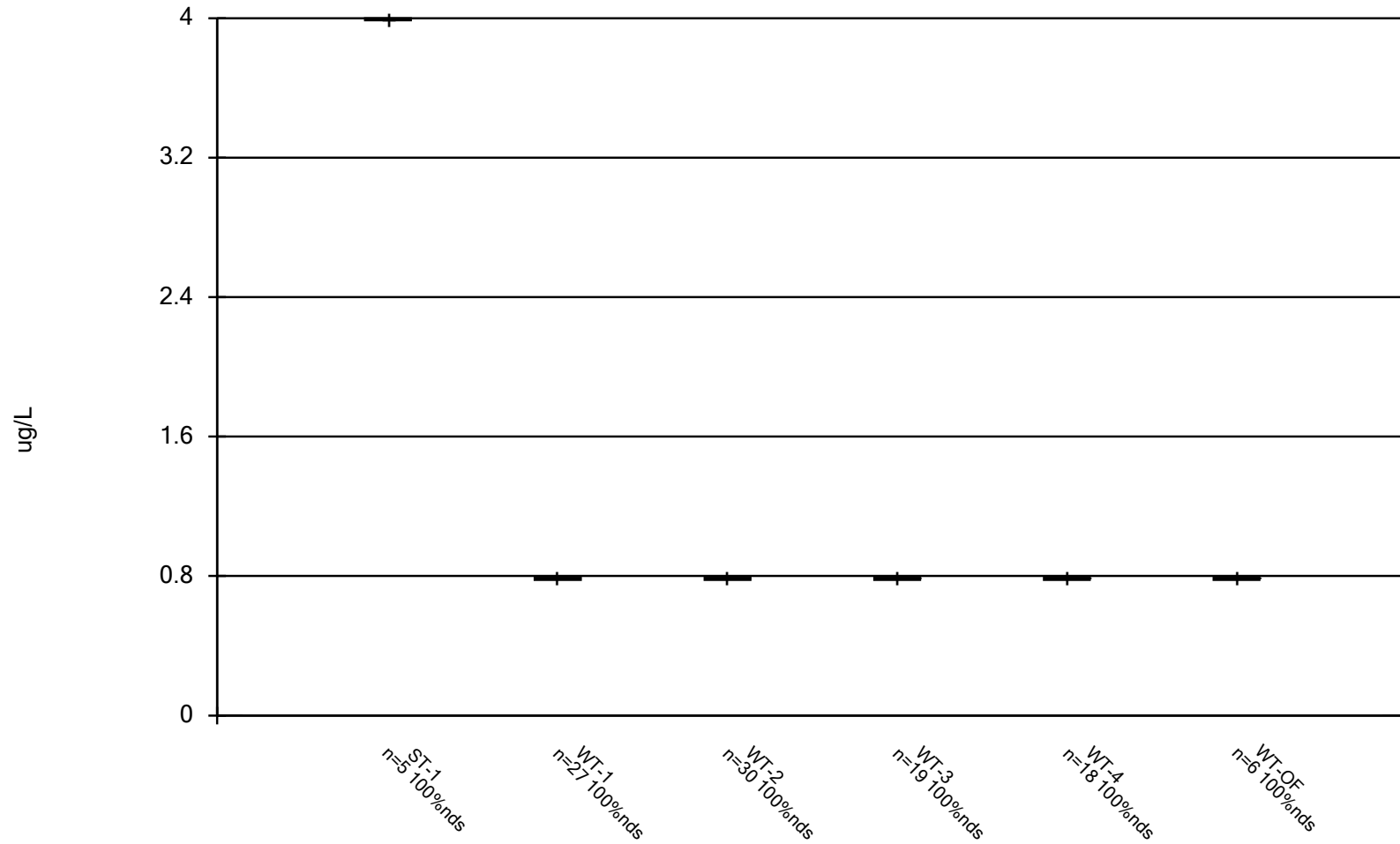
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



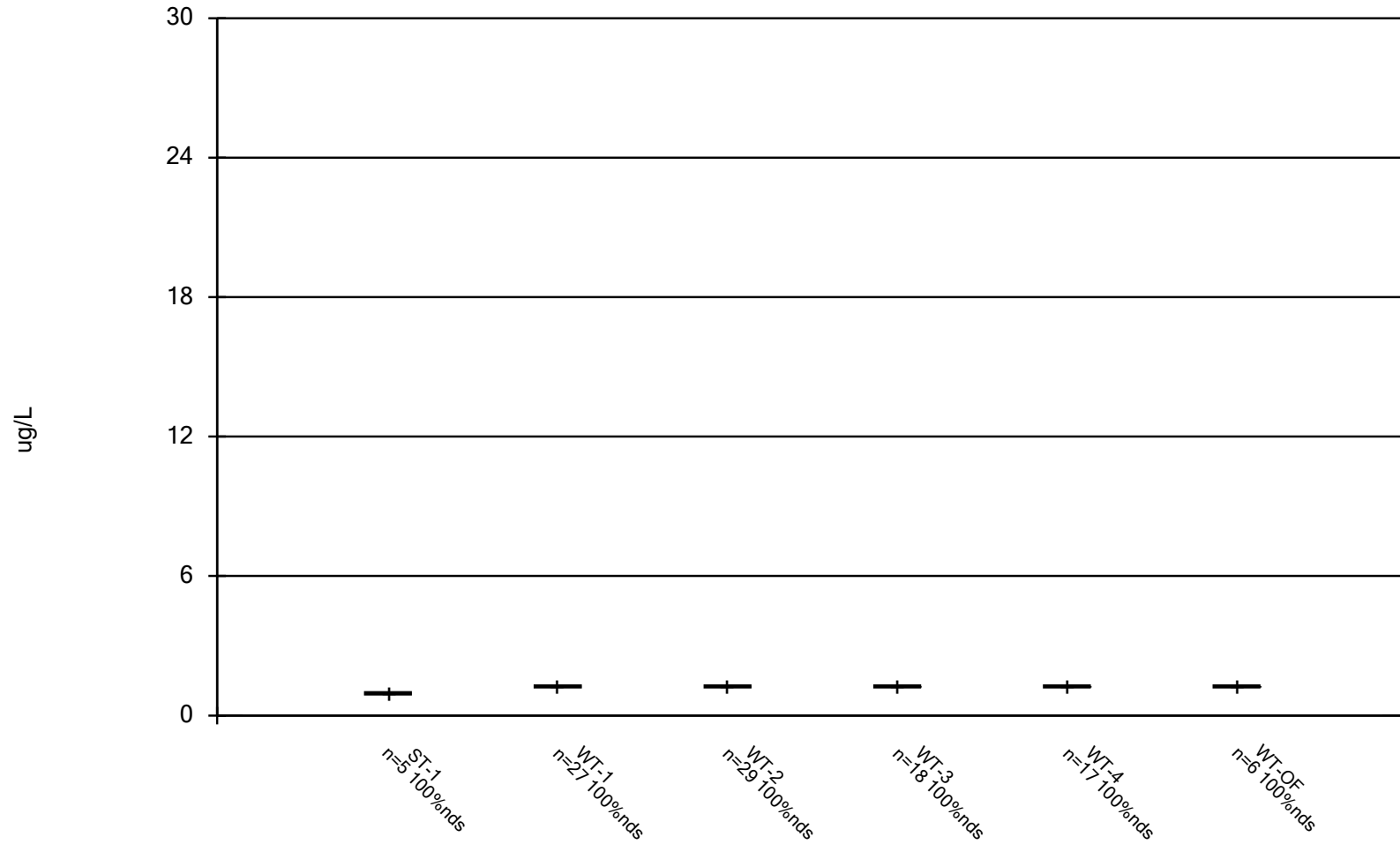
Constituent: Chlorodibromomethane Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



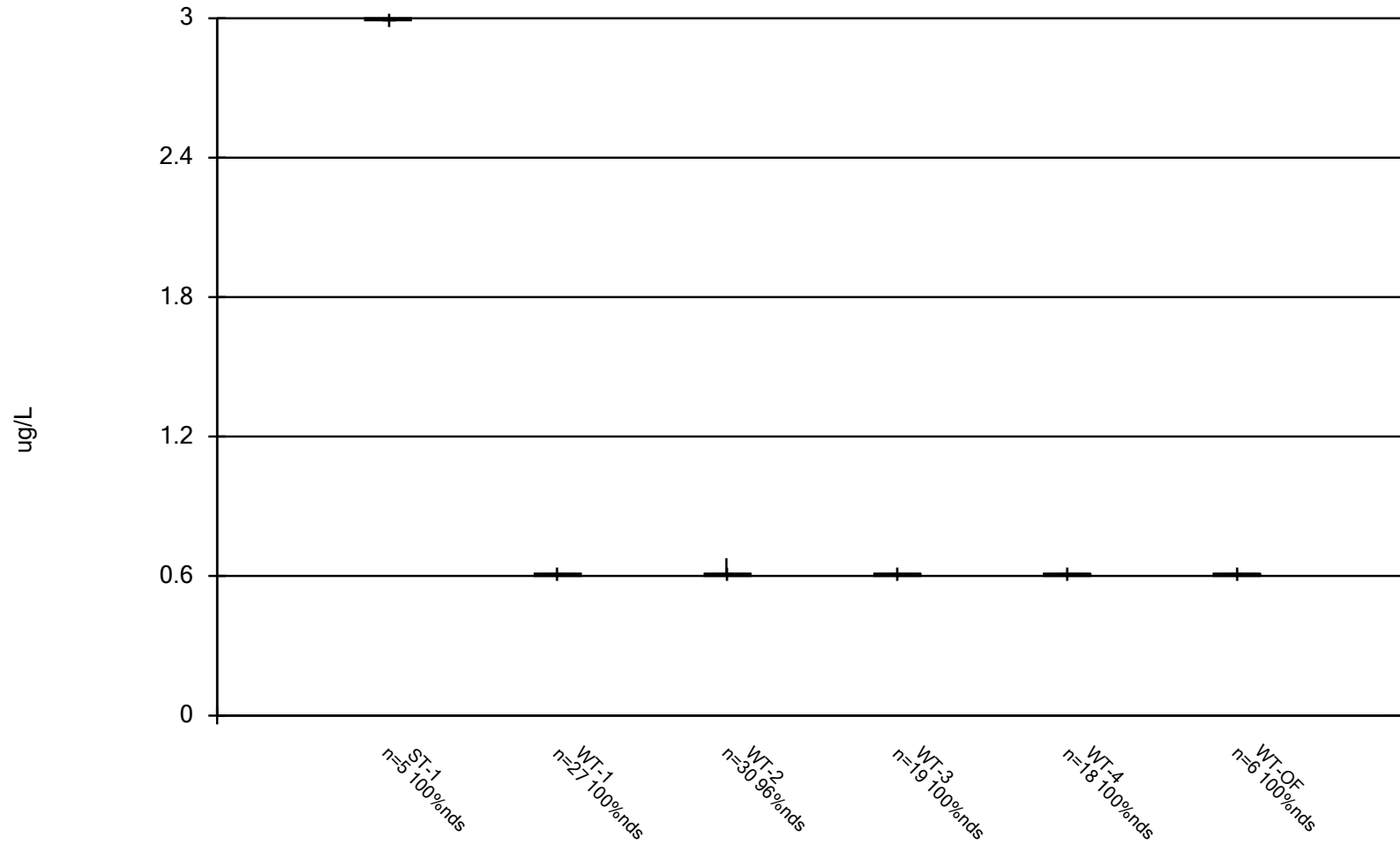
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



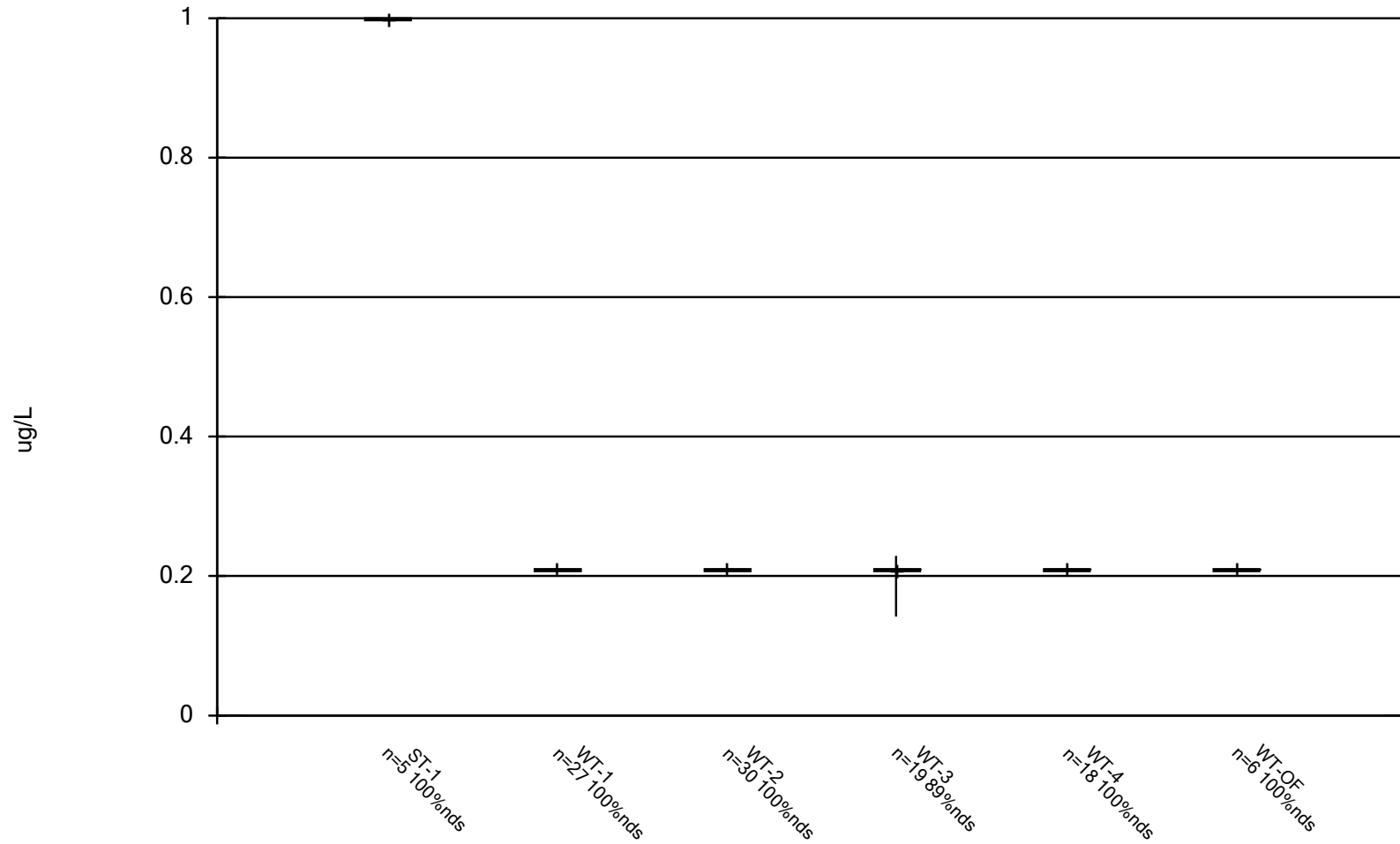
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



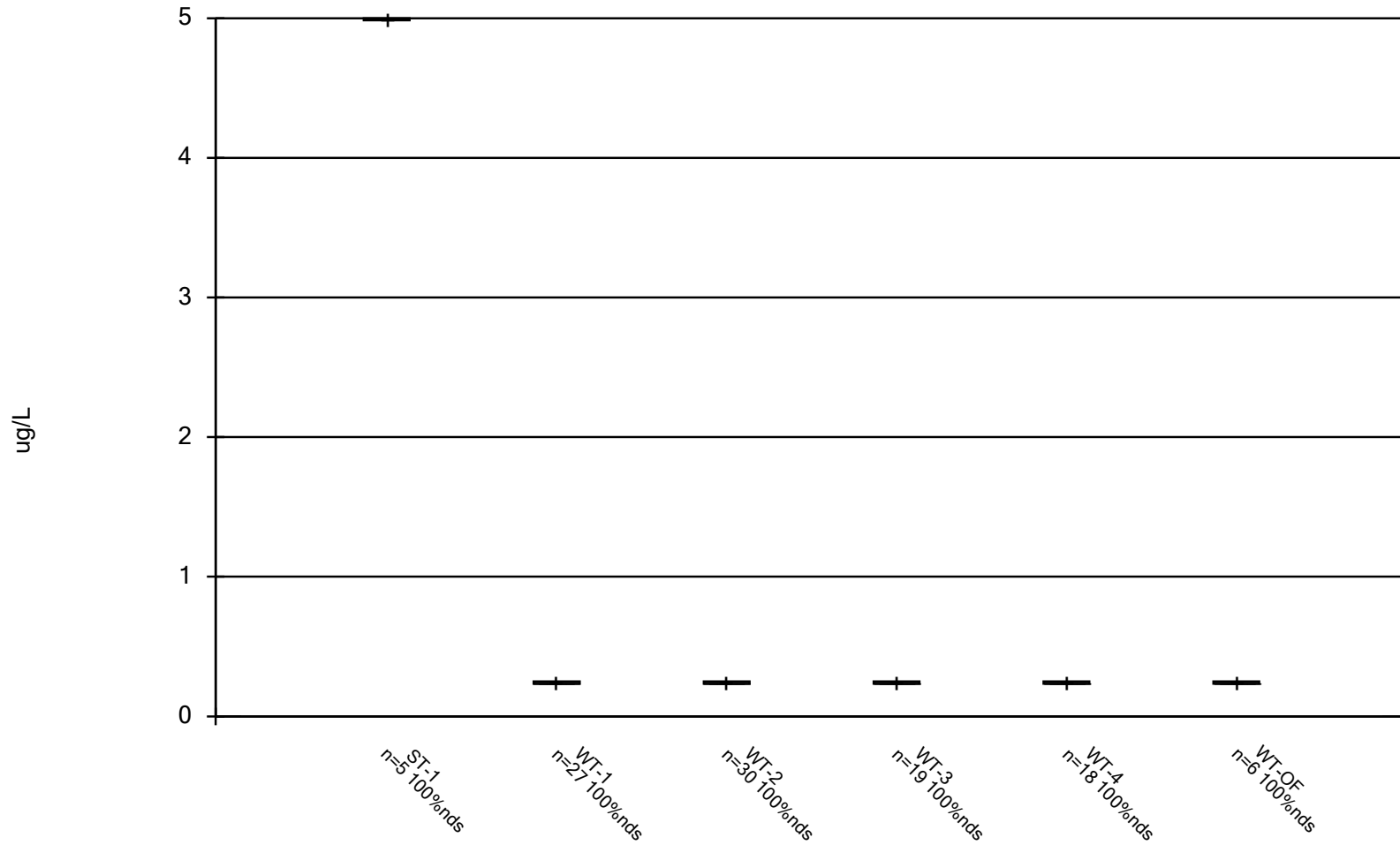
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



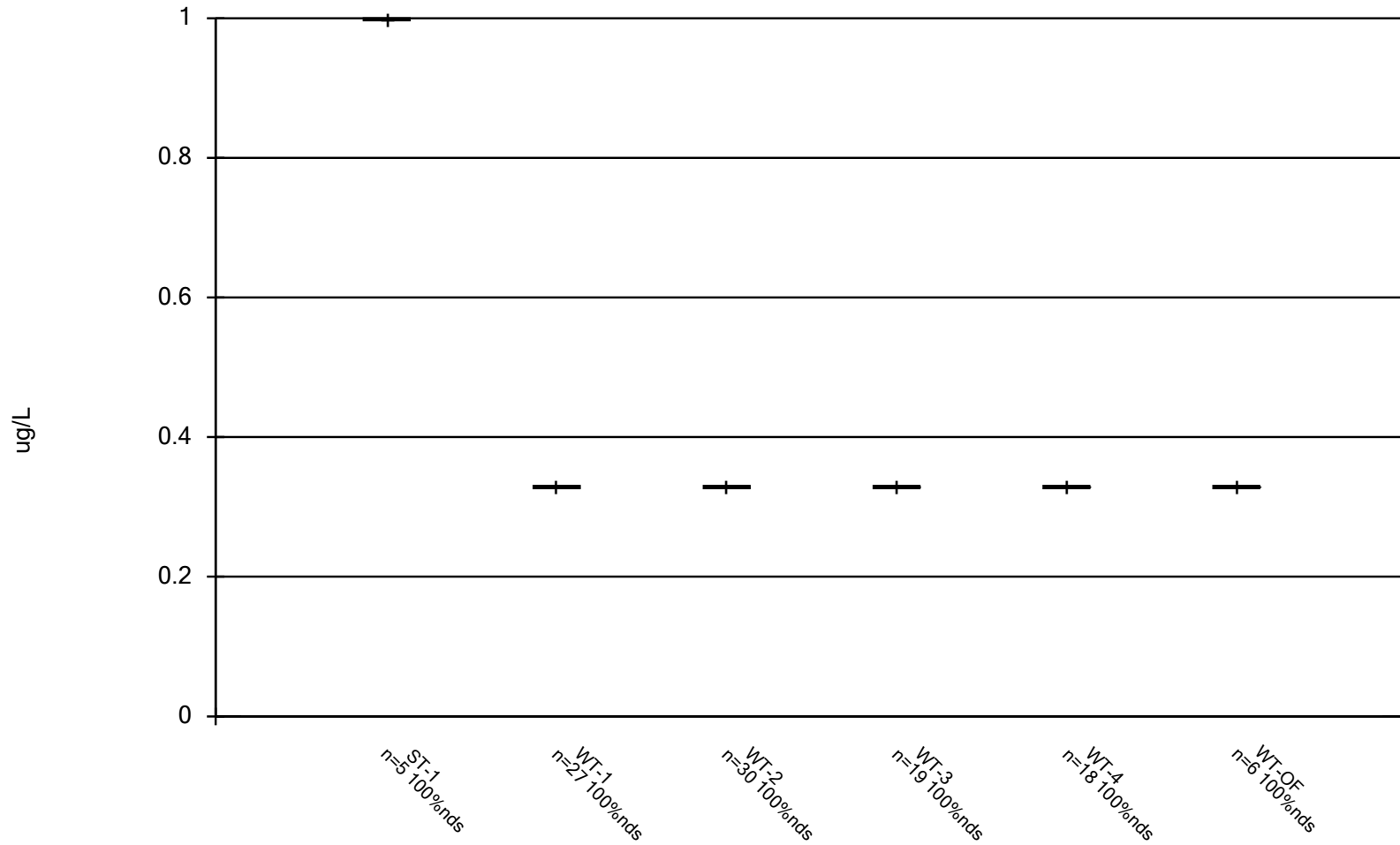
Constituent: cis-1,2-Dichloroethene Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



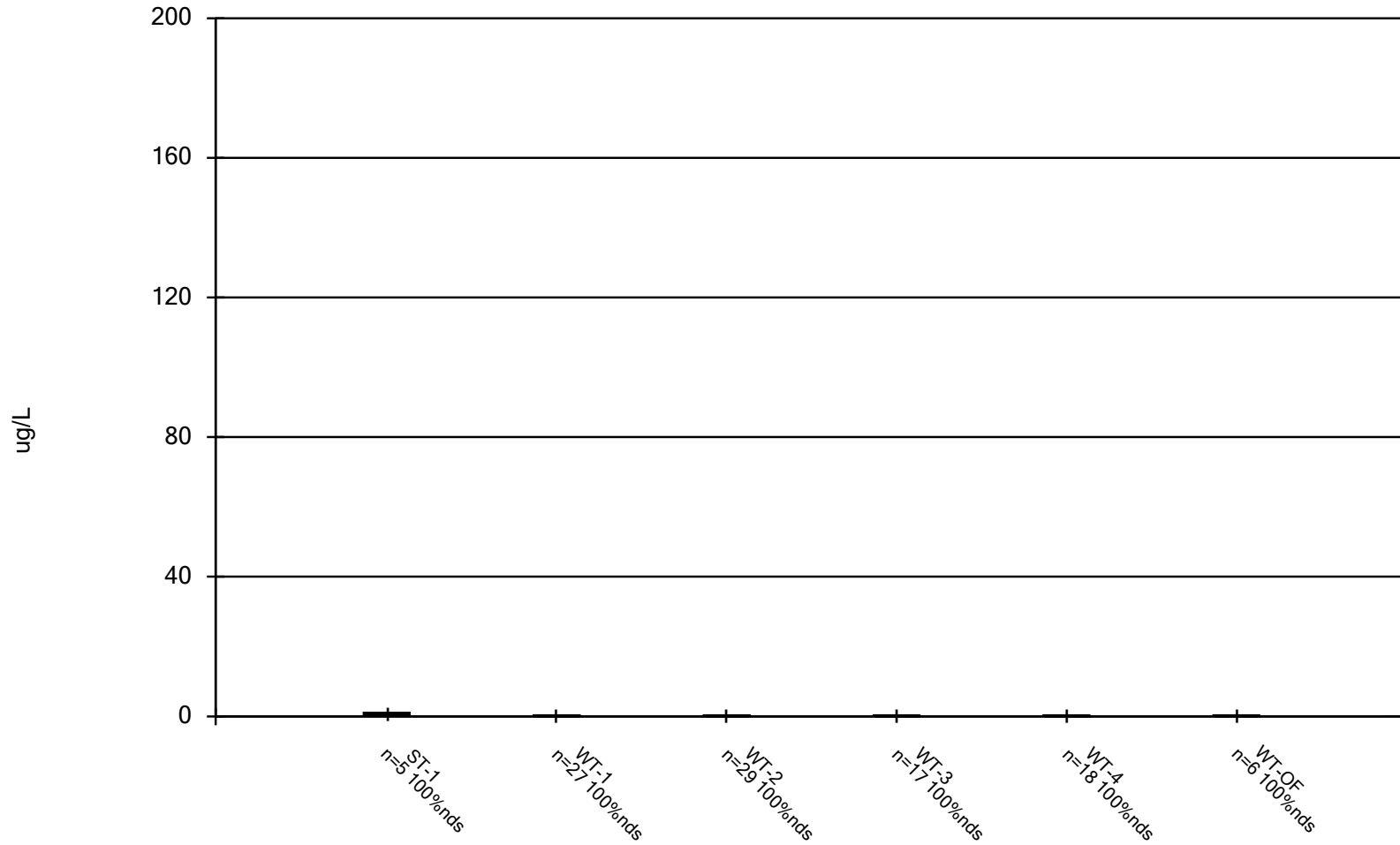
Constituent: cis-1,3-Dichloropropene Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



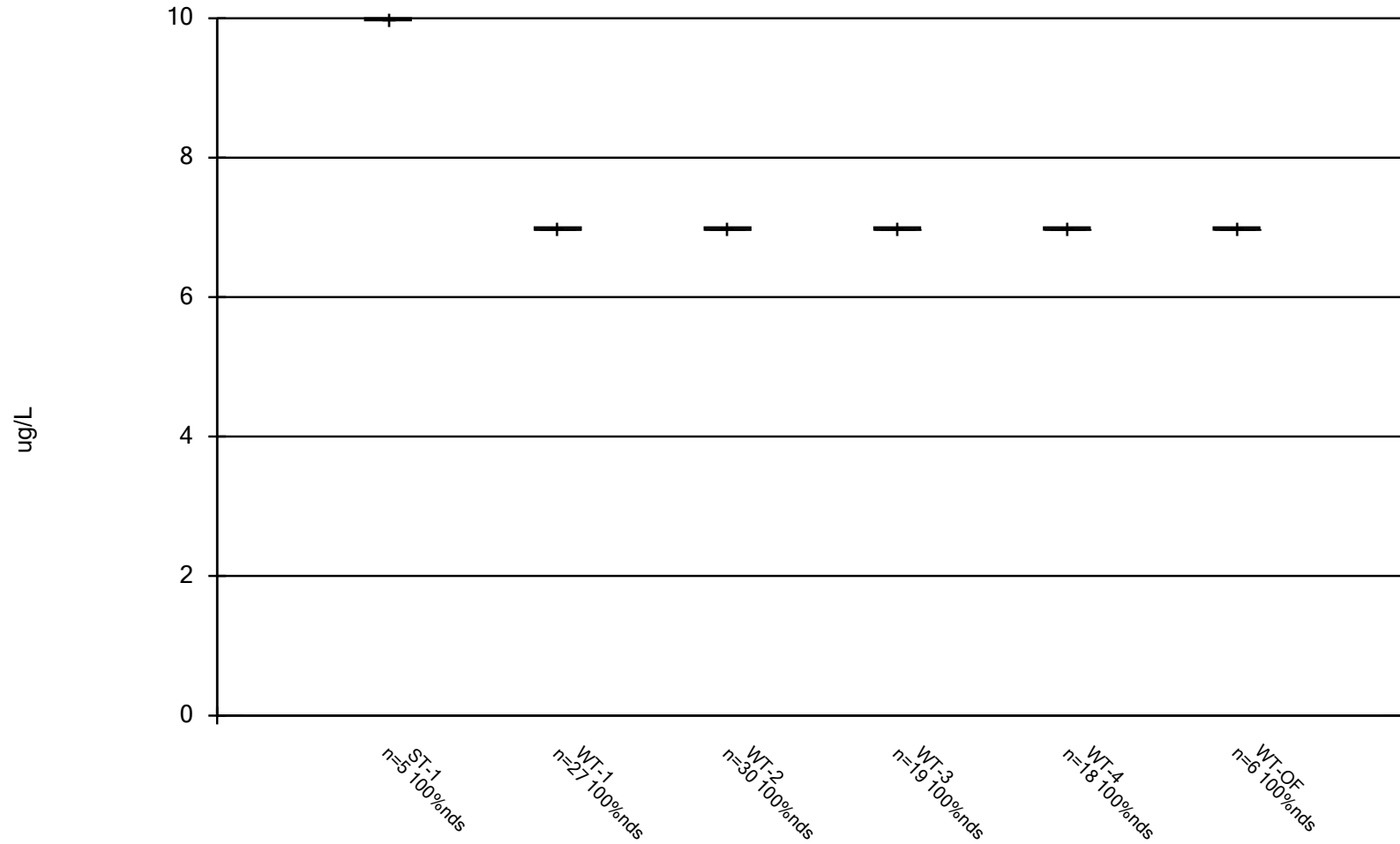
Constituent: Dibromomethane Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



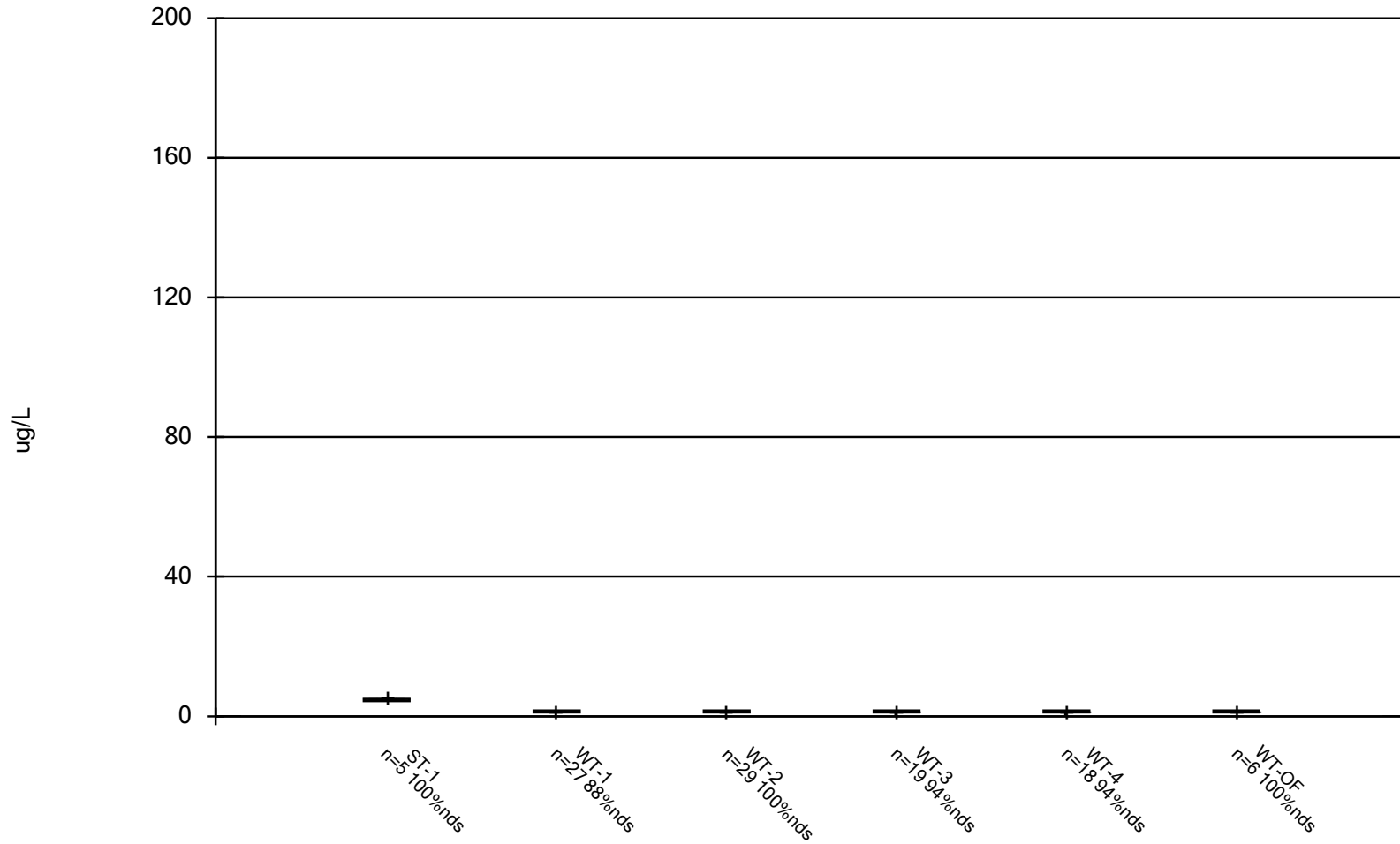
Constituent: Ethylbenzene Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



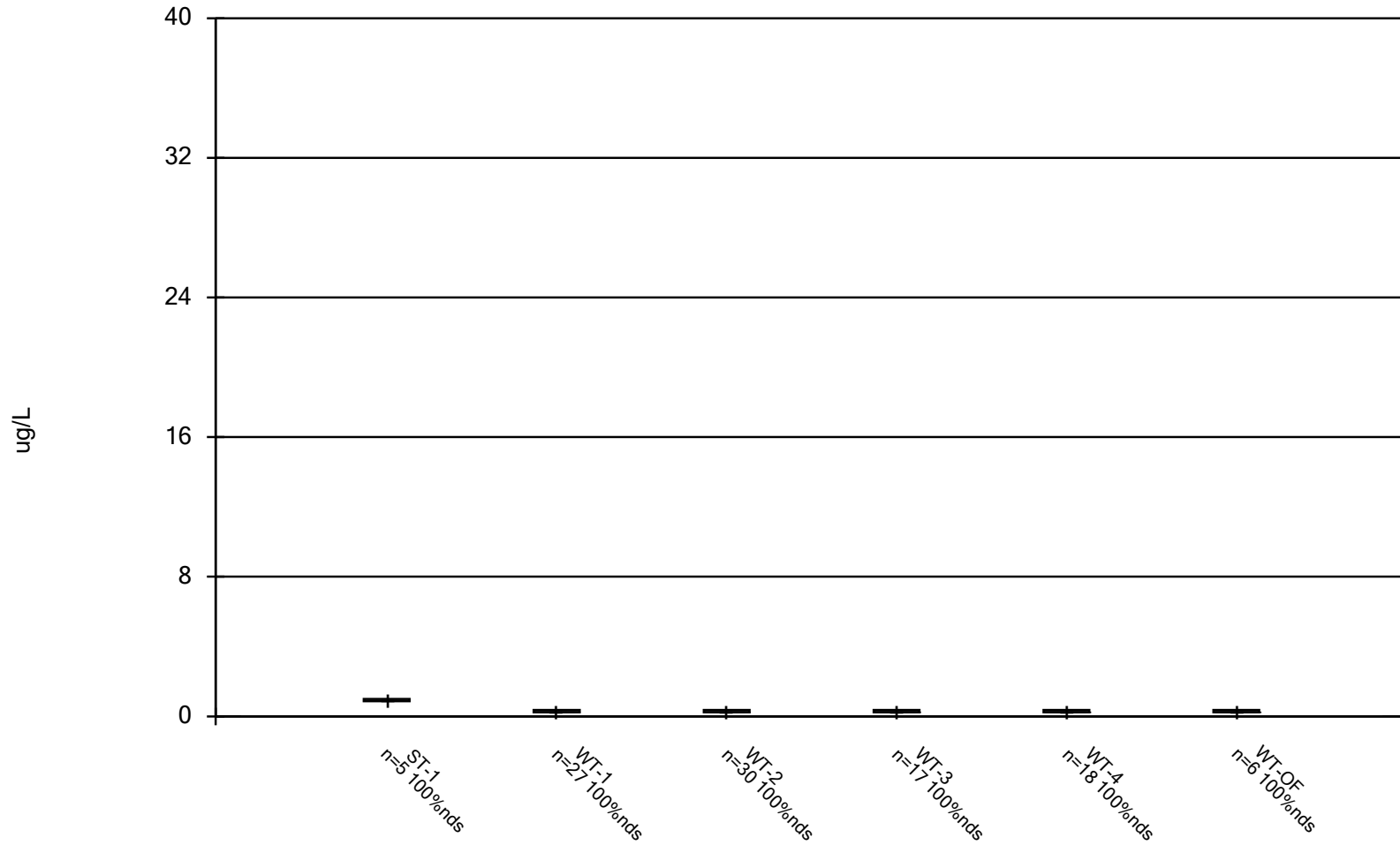
Constituent: Iodomethane Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



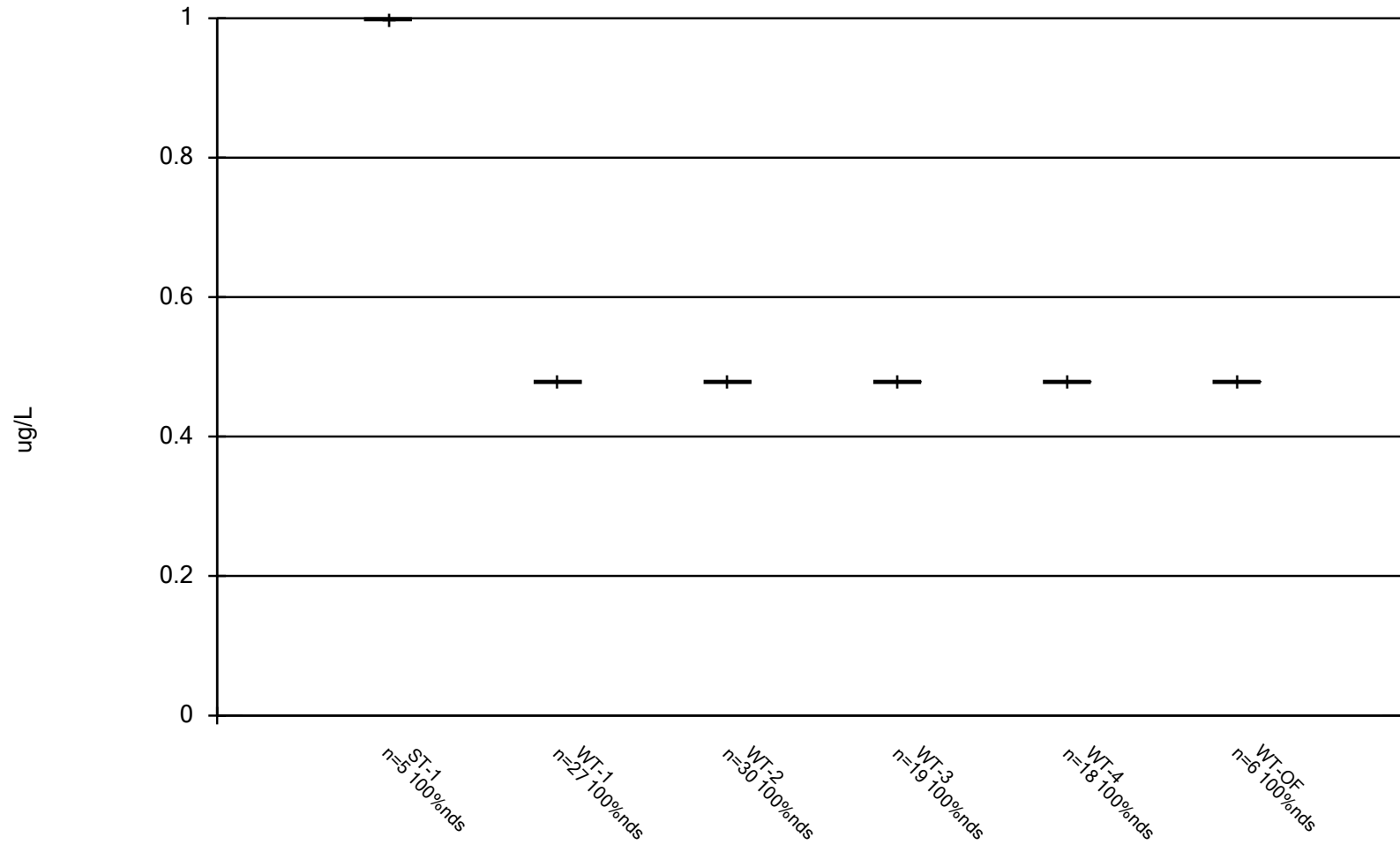
Constituent: Methylene Chloride Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



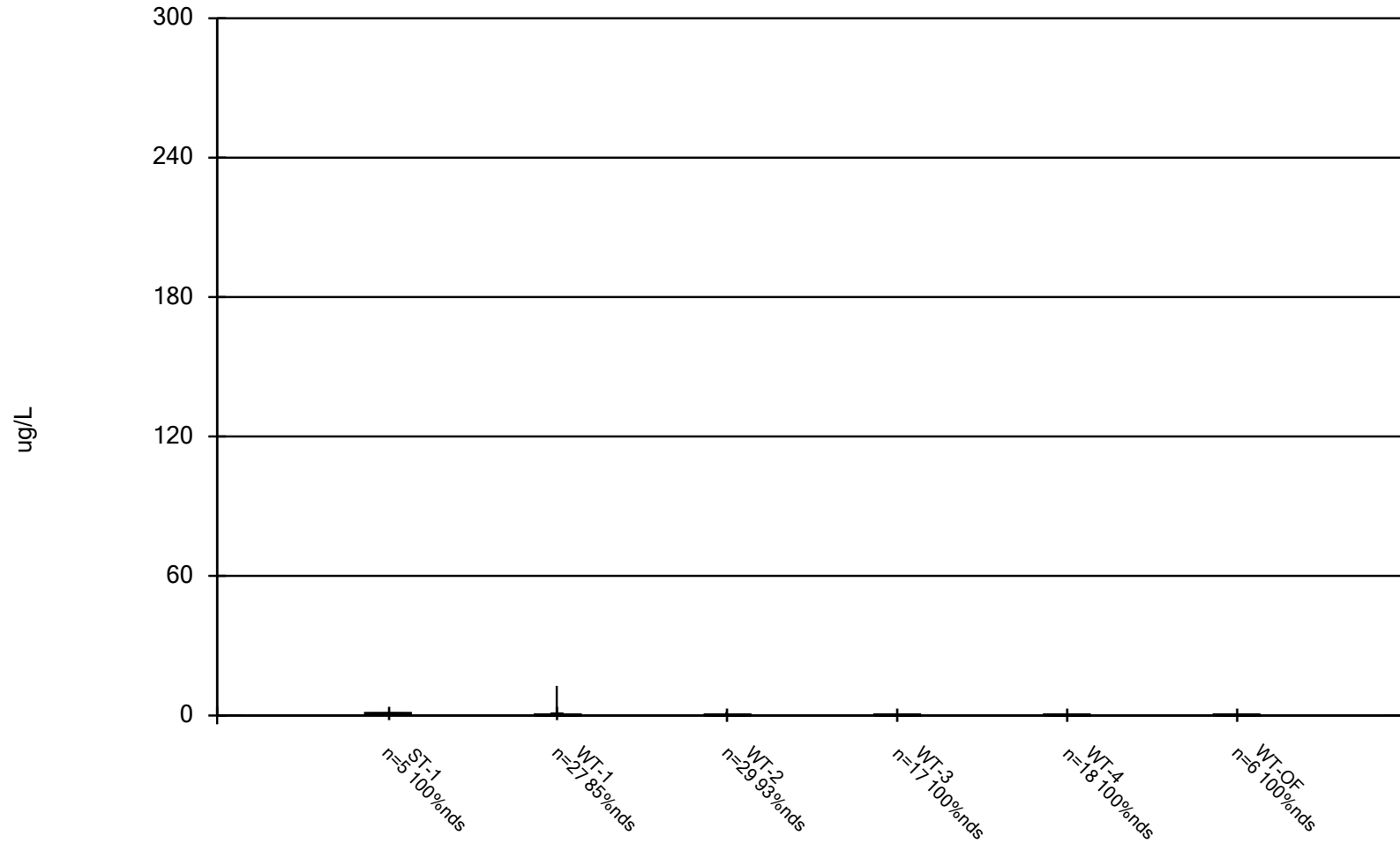
Constituent: Styrene Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



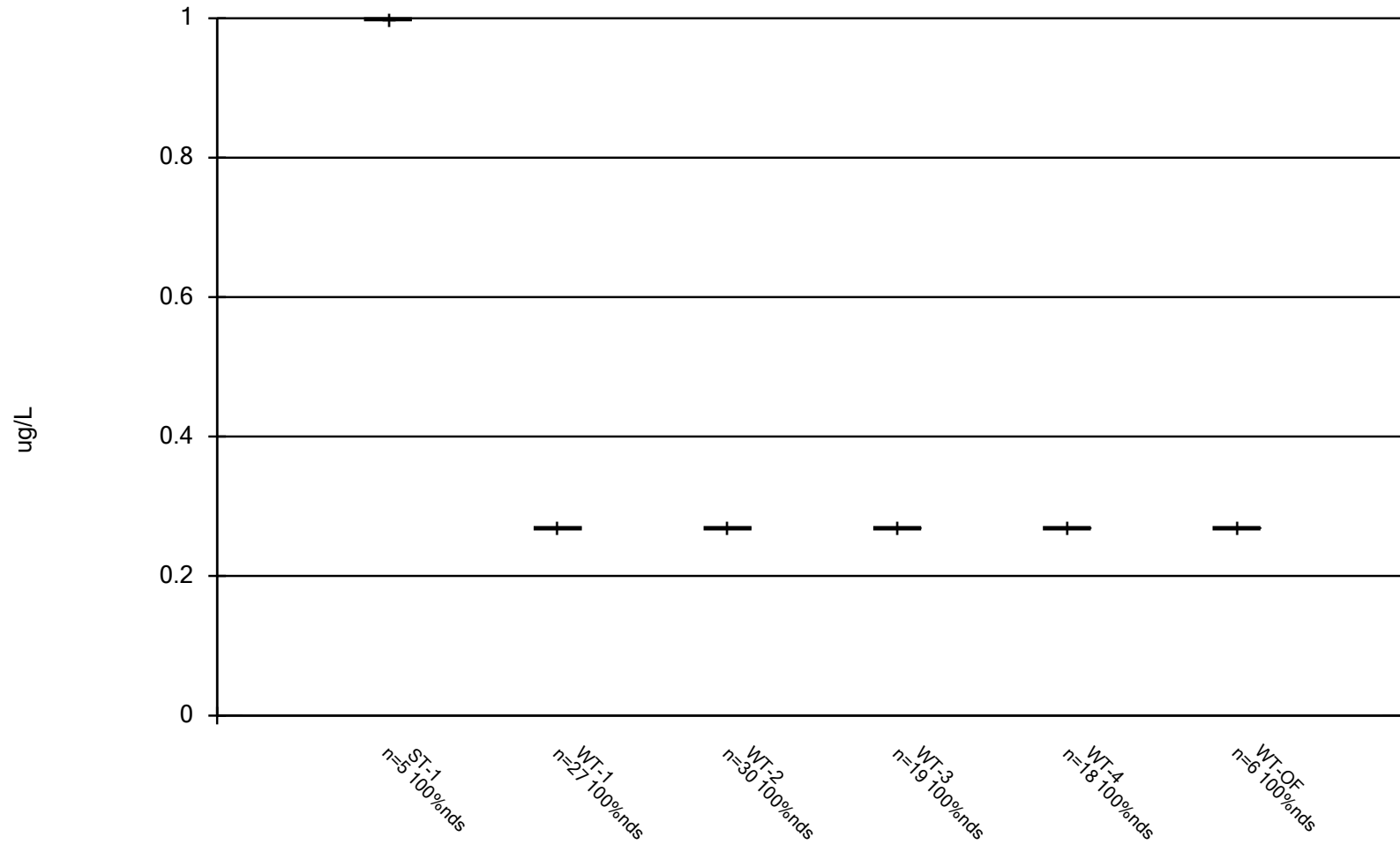
Constituent: Tetrachloroethene Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



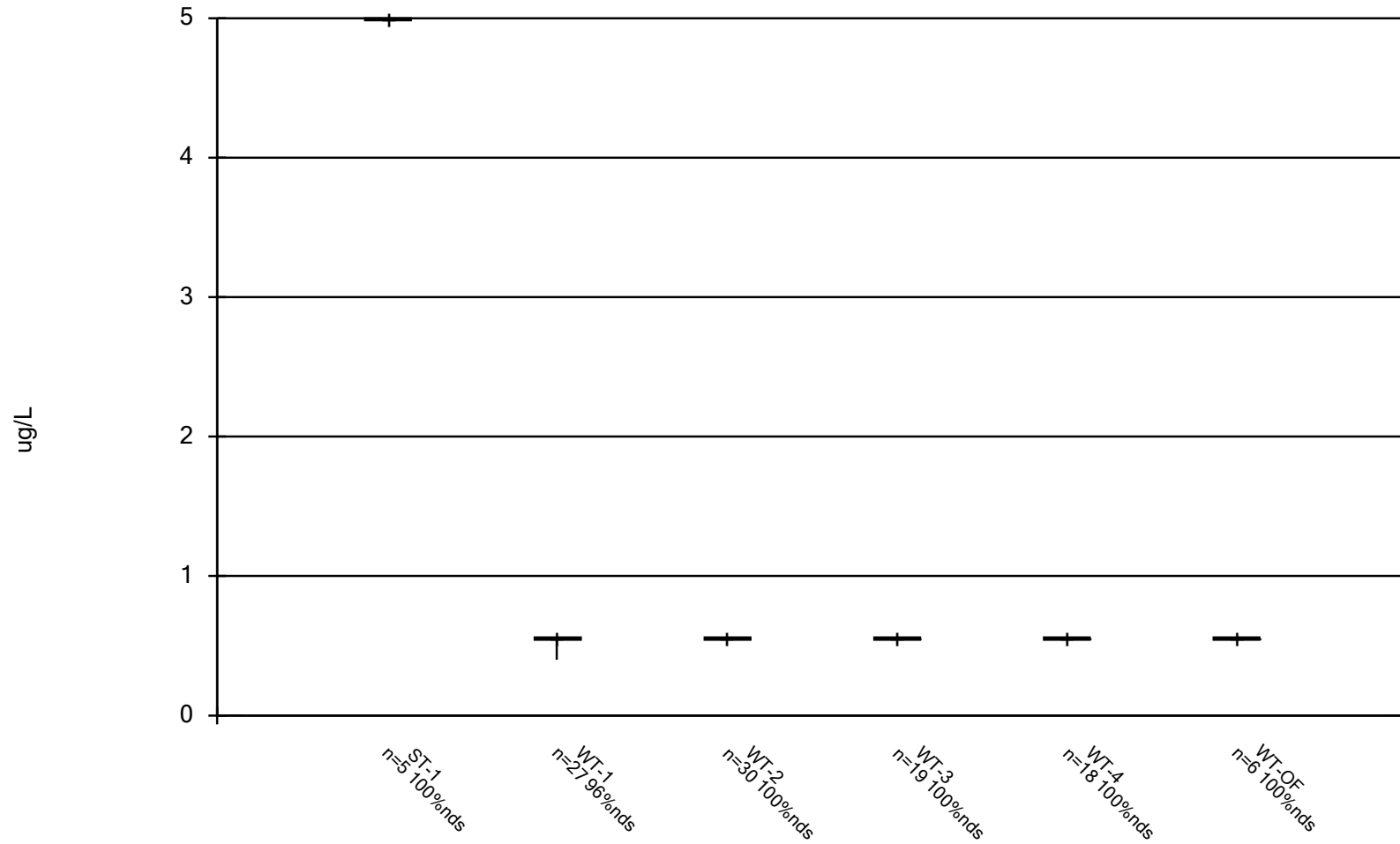
Constituent: Toluene Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



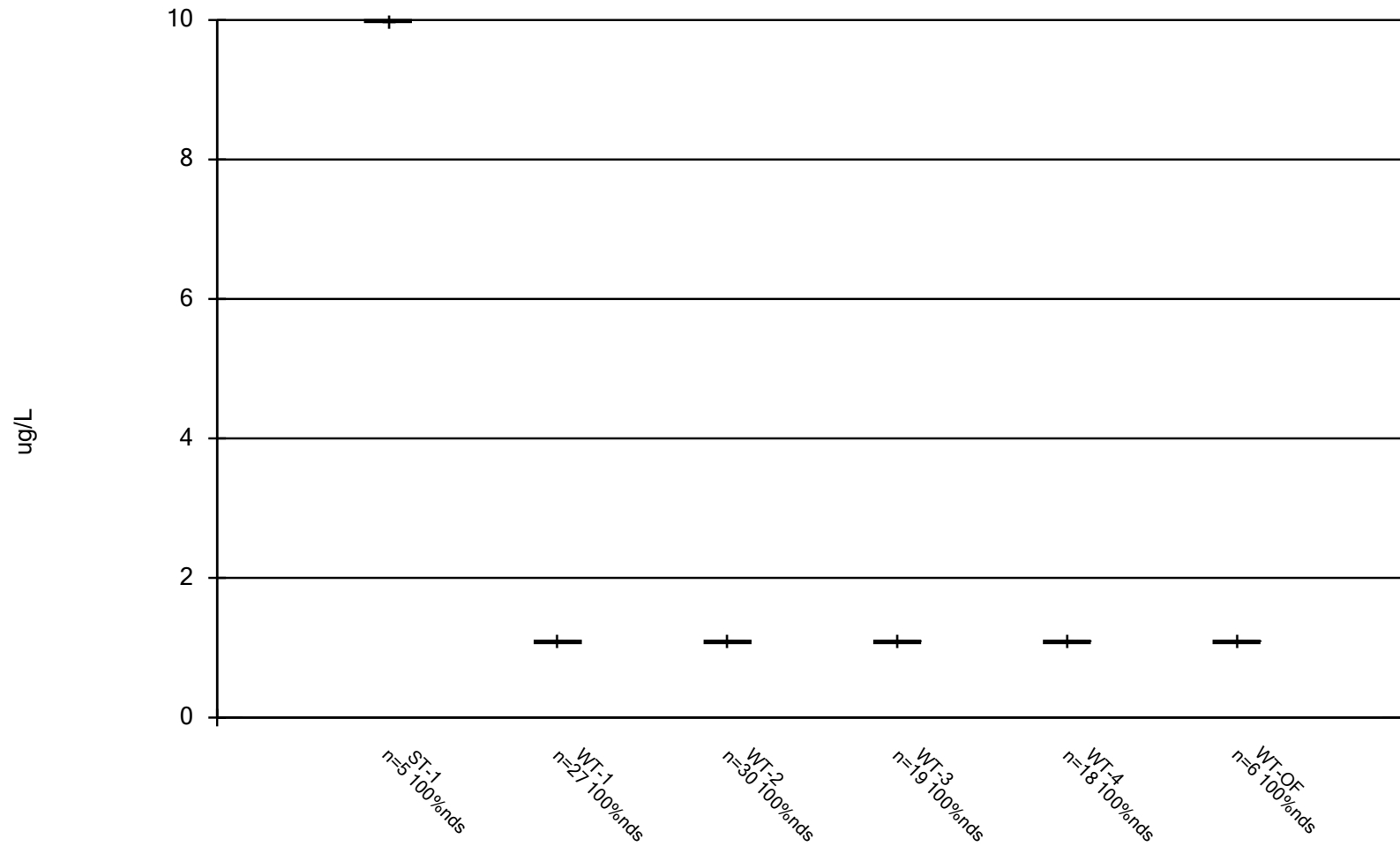
Constituent: trans-1,2-Dichloroethene Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



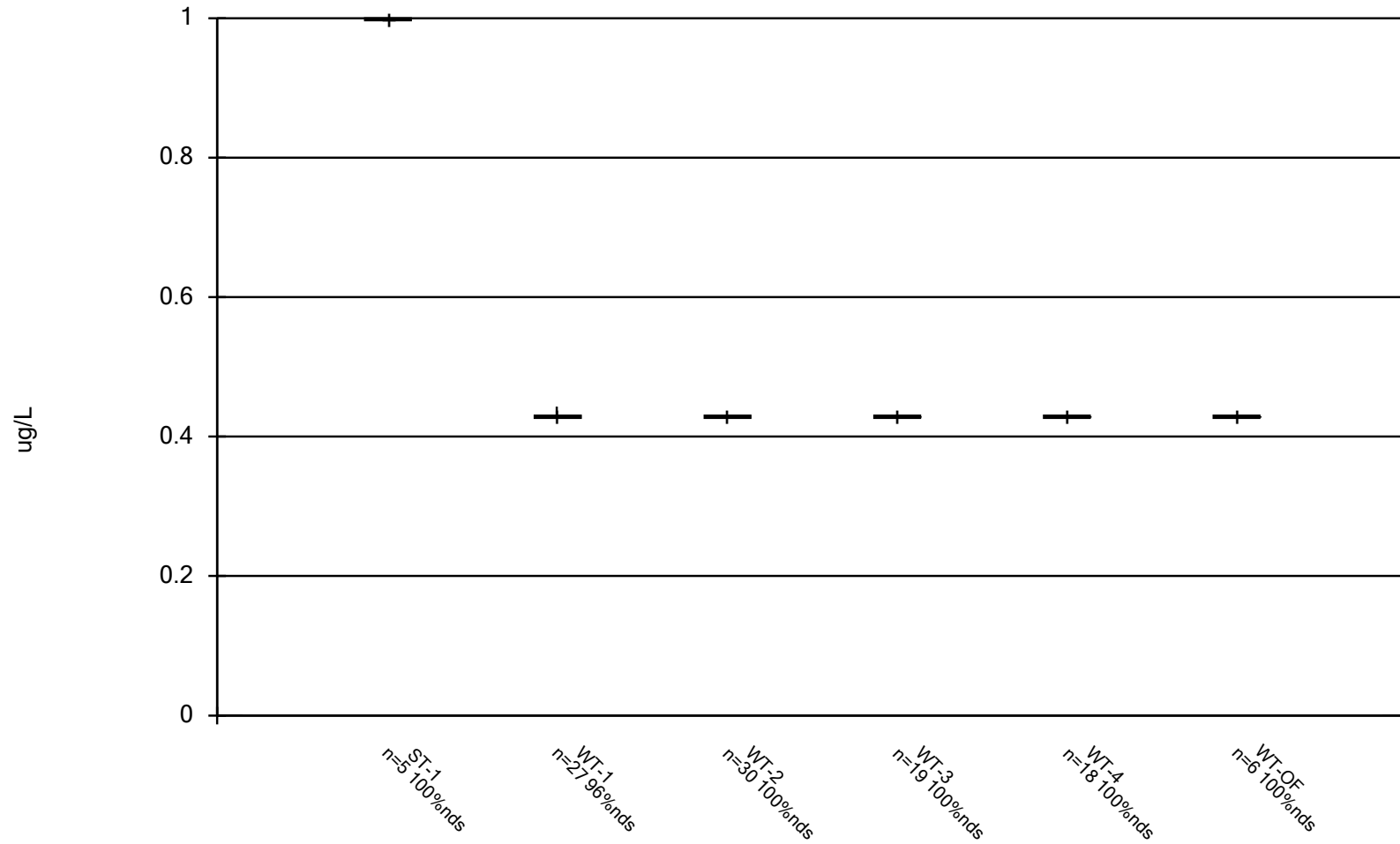
Constituent: trans-1,3-Dichloropropene Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



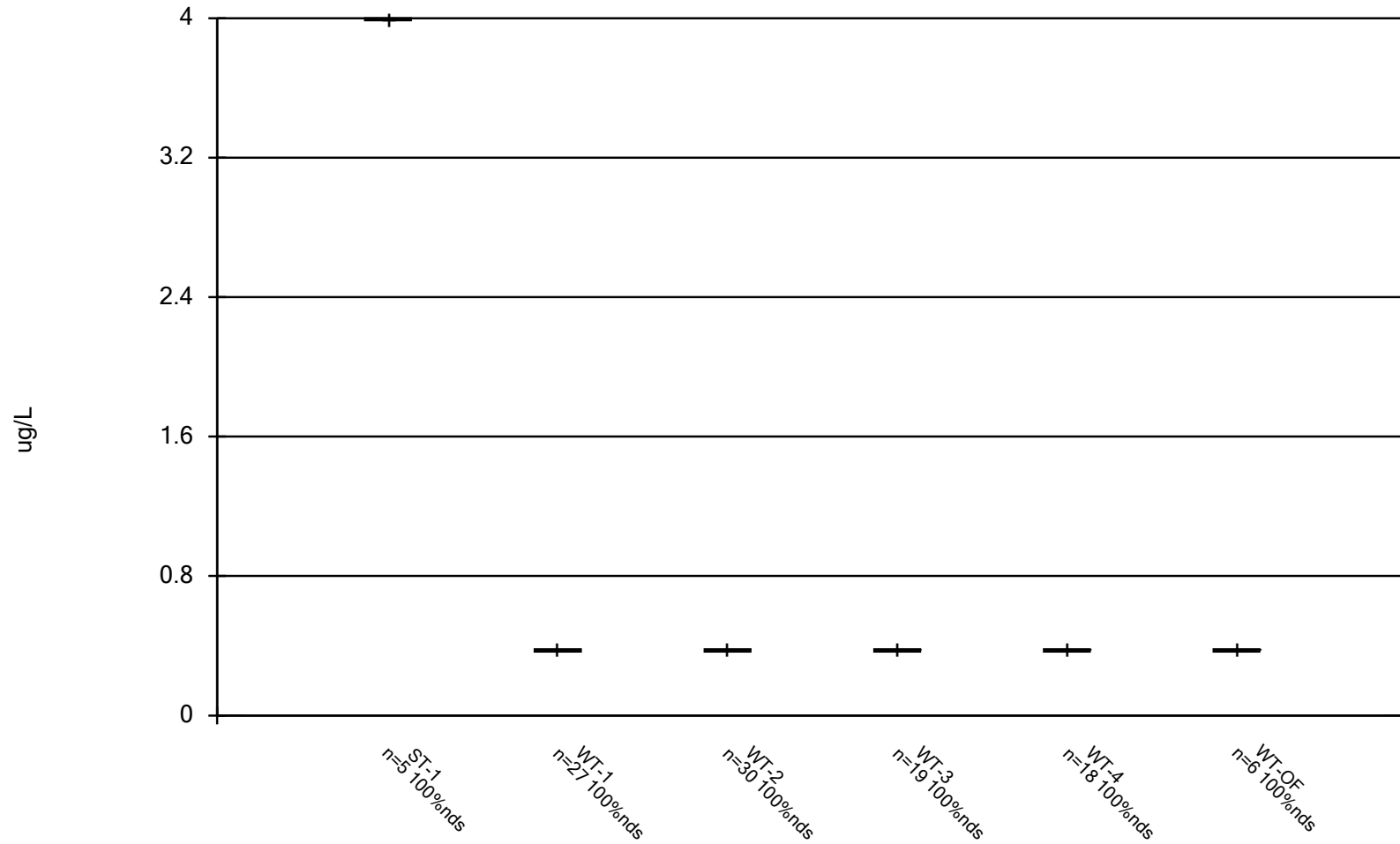
Constituent: trans-1,4-Dichloro-2-Butene Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



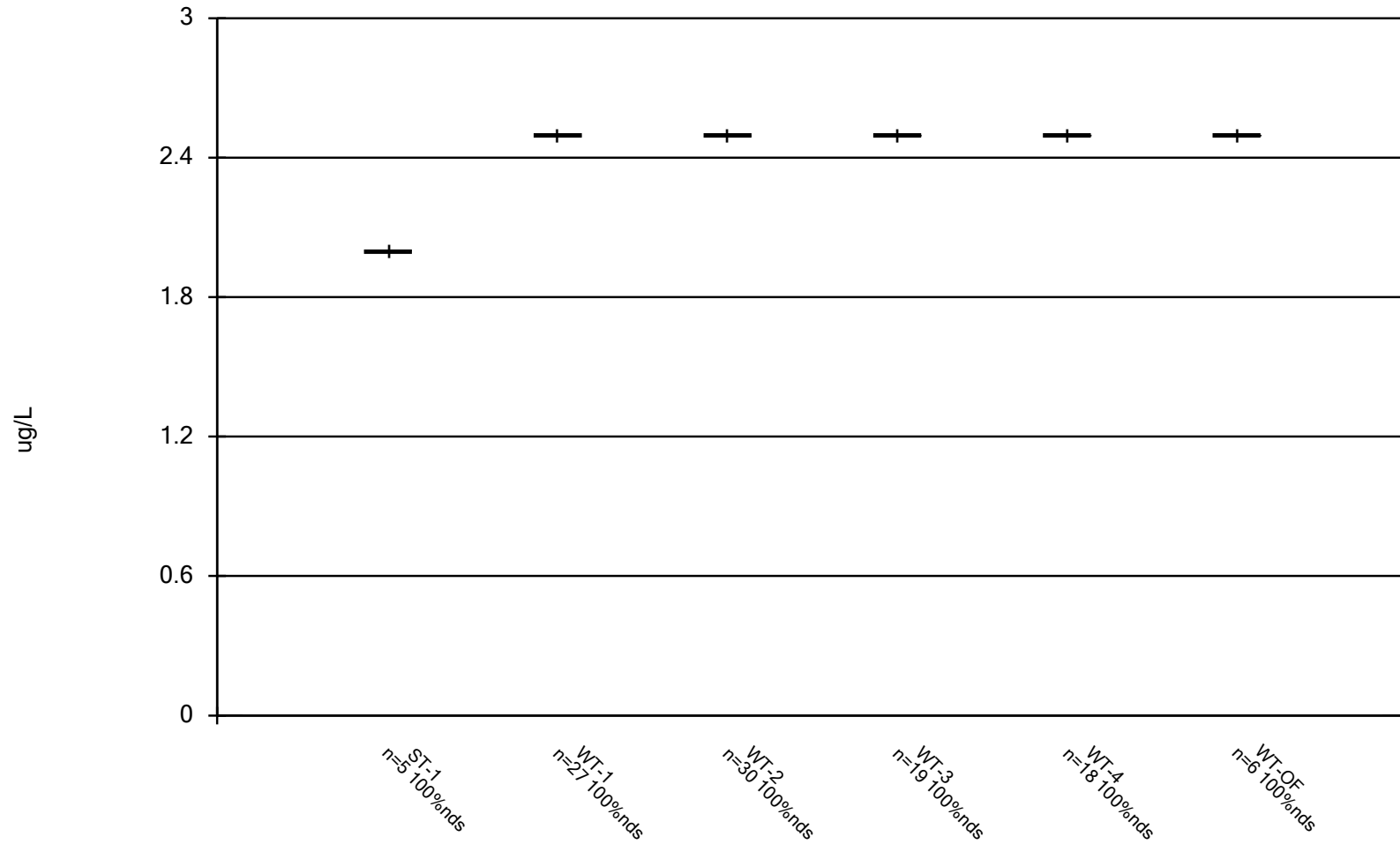
Constituent: Trichloroethene Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



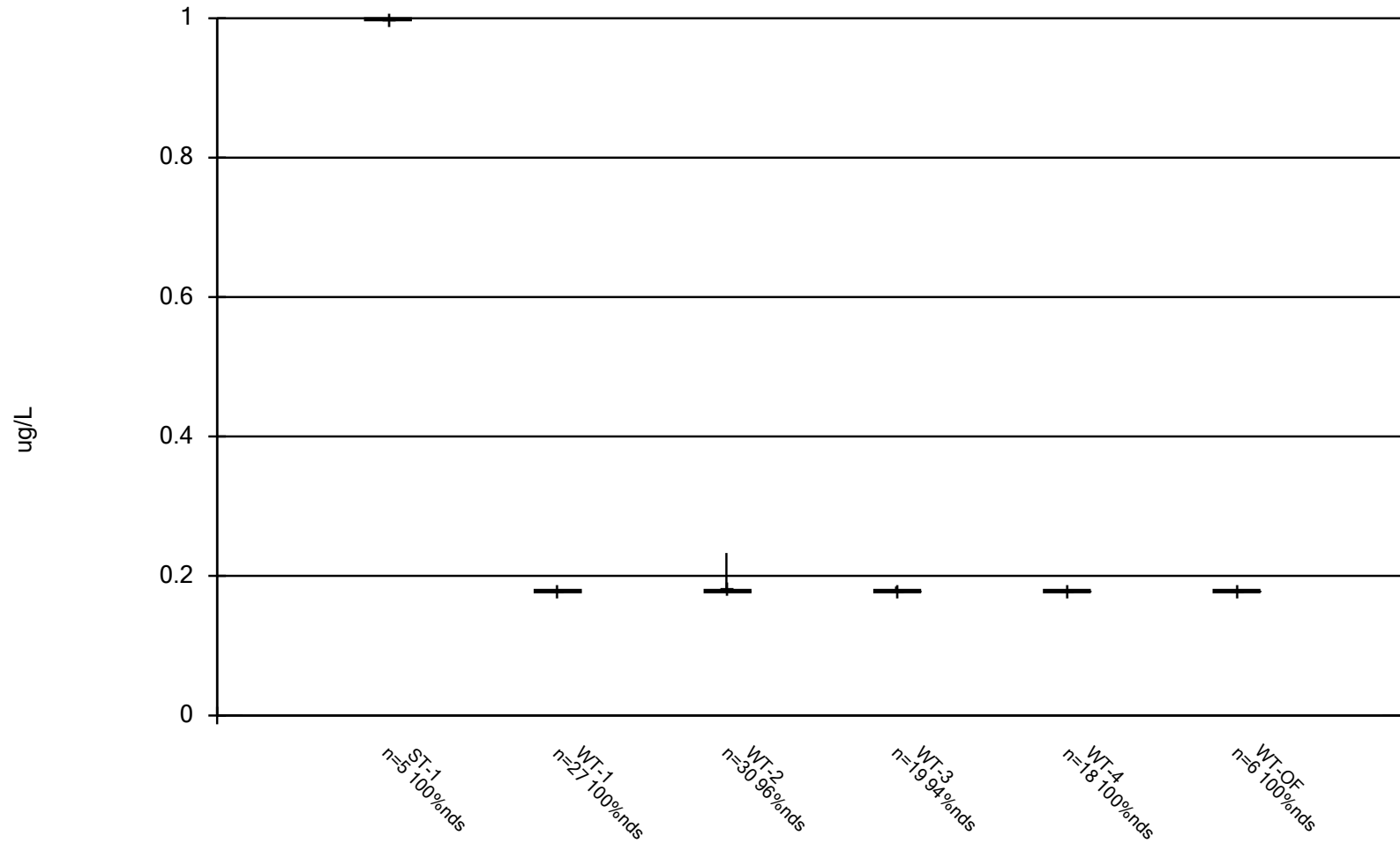
Constituent: Trichlorofluoromethane Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



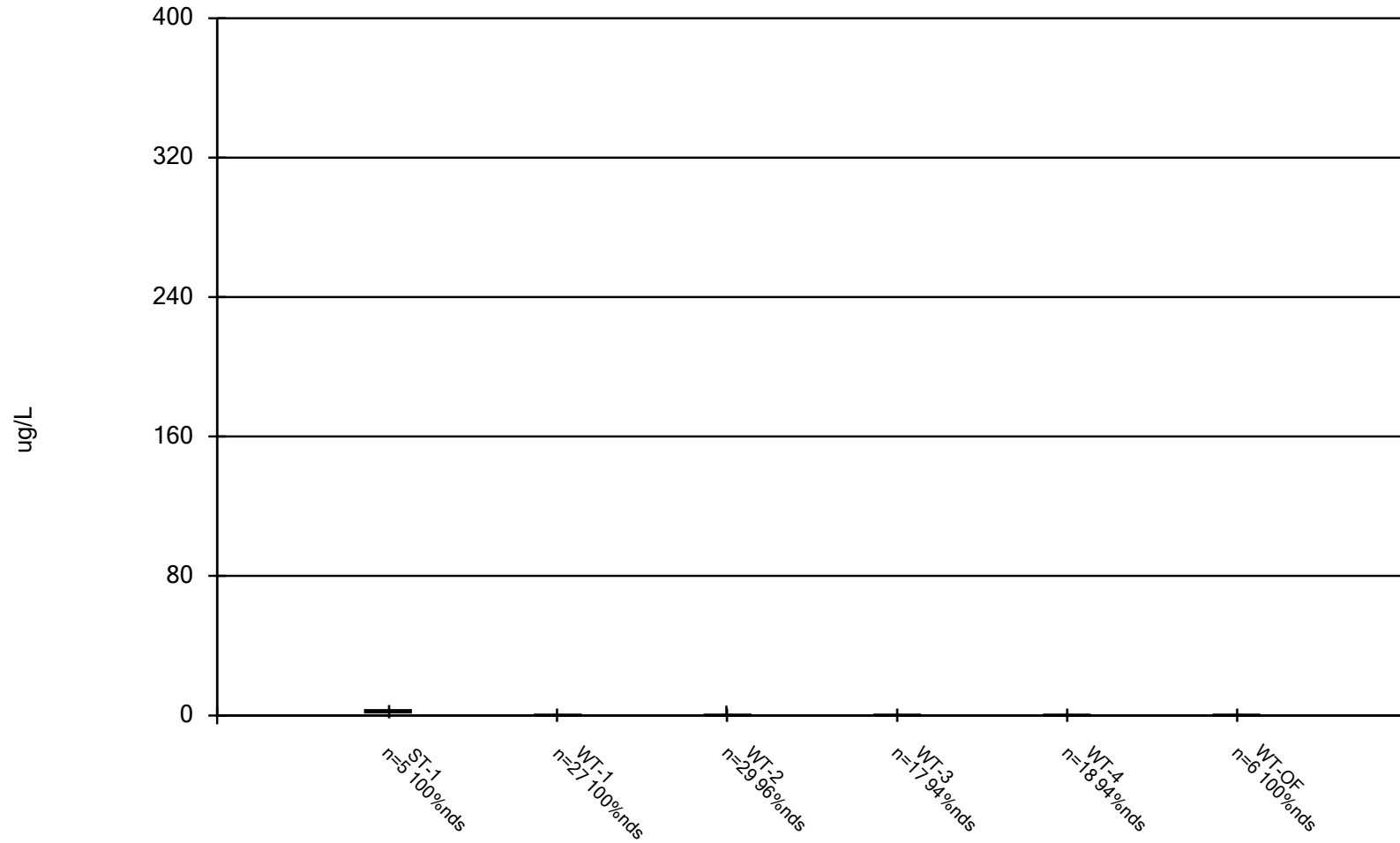
Constituent: Vinyl Acetate Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Vinyl Chloride Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Xylenes, Total Analysis Run 1/21/2025 4:54 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 4:54 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
1,1,1,2-Tetrachloroethane (...)	ST-1	5	1	0	0	1	1	1	1	1	100
1,1,1,2-Tetrachloroethane (...)	WT-1	27	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
1,1,1,2-Tetrachloroethane (...)	WT-2	30	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
1,1,1,2-Tetrachloroethane (...)	WT-3	19	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
1,1,1,2-Tetrachloroethane (...)	WT-4	18	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
1,1,1,2-Tetrachloroethane (...)	WT-OF	6	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
1,1,1-Trichloroethane (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	WT-1	27	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	WT-2	30	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	WT-3	19	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	WT-4	18	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	WT-OF	6	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,2,2-Tetrachloroethane (...)	ST-1	5	1	0	0	1	1	1	1	1	100
1,1,2,2-Tetrachloroethane (...)	WT-1	27	0.47	0	0	0.47	0.47	0.47	0.47	0.47	100
1,1,2,2-Tetrachloroethane (...)	WT-2	30	0.47	0	0	0.47	0.47	0.47	0.47	0.47	100
1,1,2,2-Tetrachloroethane (...)	WT-3	19	0.47	0	0	0.47	0.47	0.47	0.47	0.47	100
1,1,2,2-Tetrachloroethane (...)	WT-4	18	0.47	0	0	0.47	0.47	0.47	0.47	0.47	100
1,1,2,2-Tetrachloroethane (...)	WT-OF	6	0.47	0	0	0.47	0.47	0.47	0.47	0.47	100
1,1,2-Trichloroethane (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
1,1,2-Trichloroethane (ug/L)	WT-1	27	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
1,1,2-Trichloroethane (ug/L)	WT-2	29	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
1,1,2-Trichloroethane (ug/L)	WT-3	19	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
1,1,2-Trichloroethane (ug/L)	WT-4	18	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
1,1,2-Trichloroethane (ug/L)	WT-OF	6	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
1,1-Dichloroethane (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	WT-1	27	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	WT-2	30	0.2581	0.08448	0.01542	0.22	0.22	0.22	0.22	0.508	80
1,1-Dichloroethane (ug/L)	WT-3	19	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	WT-4	18	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	WT-OF	6	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethene (ug/L)	ST-1	5	2	0	0	2	2	2	2	2	100
1,1-Dichloroethene (ug/L)	WT-1	27	0.56	0	0	0.56	0.56	0.56	0.56	0.56	100
1,1-Dichloroethene (ug/L)	WT-2	30	0.56	0	0	0.56	0.56	0.56	0.56	0.56	100
1,1-Dichloroethene (ug/L)	WT-3	19	0.56	0	0	0.56	0.56	0.56	0.56	0.56	100
1,1-Dichloroethene (ug/L)	WT-4	18	0.56	0	0	0.56	0.56	0.56	0.56	0.56	100
1,1-Dichloroethene (ug/L)	WT-OF	6	0.56	0	0	0.56	0.56	0.56	0.56	0.56	100
1,2,3-Trichloropropane (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
1,2,3-Trichloropropane (ug/L)	WT-1	27	0.59	0	0	0.59	0.59	0.59	0.59	0.59	100
1,2,3-Trichloropropane (ug/L)	WT-2	30	0.59	0	0	0.59	0.59	0.59	0.59	0.59	100
1,2,3-Trichloropropane (ug/L)	WT-3	19	0.59	0	0	0.59	0.59	0.59	0.59	0.59	100
1,2,3-Trichloropropane (ug/L)	WT-4	18	0.59	0	0	0.59	0.59	0.59	0.59	0.59	100
1,2,3-Trichloropropane (ug/L)	WT-OF	6	0.59	0	0	0.59	0.59	0.59	0.59	0.59	100
1,2-Dibromo-3-Chloropropane...	ST-1	5	10	0	0	10	10	10	10	10	100
1,2-Dibromo-3-Chloropropane...	WT-1	27	1.2	0	0	1.2	1.2	1.2	1.2	1.2	100
1,2-Dibromo-3-Chloropropane...	WT-2	30	1.2	0	0	1.2	1.2	1.2	1.2	1.2	100
1,2-Dibromo-3-Chloropropane...	WT-3	19	1.2	0	0	1.2	1.2	1.2	1.2	1.2	100
1,2-Dibromo-3-Chloropropane...	WT-4	18	1.2	0	0	1.2	1.2	1.2	1.2	1.2	100
1,2-Dibromo-3-Chloropropane...	WT-OF	6	1.2	0	0	1.2	1.2	1.2	1.2	1.2	100
1,2-Dibromoethane [EDB] (ug/L)	ST-1	5	10	0	0	10	10	10	10	10	100
1,2-Dibromoethane [EDB] (ug/L)	WT-1	27	0.34	0	0	0.34	0.34	0.34	0.34	0.34	100

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 4:54 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
1,2-Dibromoethane [EDB] (ug/L)	WT-2	30	0.34	0	0	0.34	0.34	0.34	0.34	0.34	100
1,2-Dibromoethane [EDB] (ug/L)	WT-3	19	0.34	0	0	0.34	0.34	0.34	0.34	0.34	100
1,2-Dibromoethane [EDB] (ug/L)	WT-4	18	0.34	0	0	0.34	0.34	0.34	0.34	0.34	100
1,2-Dibromoethane [EDB] (ug/L)	WT-OF	6	0.34	0	0	0.34	0.34	0.34	0.34	0.34	100
1,2-Dichlorobenzene (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
1,2-Dichlorobenzene (ug/L)	WT-1	27	0.37	0	0	0.37	0.37	0.37	0.37	0.37	100
1,2-Dichlorobenzene (ug/L)	WT-2	30	0.37	0	0	0.37	0.37	0.37	0.37	0.37	100
1,2-Dichlorobenzene (ug/L)	WT-3	19	0.37	0	0	0.37	0.37	0.37	0.37	0.37	100
1,2-Dichlorobenzene (ug/L)	WT-4	18	0.37	0	0	0.37	0.37	0.37	0.37	0.37	100
1,2-Dichlorobenzene (ug/L)	WT-OF	6	0.37	0	0	0.37	0.37	0.37	0.37	0.37	100
1,2-Dichloroethane (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	WT-1	27	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	WT-2	30	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	WT-3	19	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	WT-4	18	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	WT-OF	6	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloropropane (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	WT-1	27	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	WT-2	30	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	WT-3	19	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	WT-4	18	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	WT-OF	6	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,4-Dichlorobenzene (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
1,4-Dichlorobenzene (ug/L)	WT-1	27	0.23	0	0	0.23	0.23	0.23	0.23	0.23	100
1,4-Dichlorobenzene (ug/L)	WT-2	30	0.23	0	0	0.23	0.23	0.23	0.23	0.23	100
1,4-Dichlorobenzene (ug/L)	WT-3	19	0.23	0	0	0.23	0.23	0.23	0.23	0.23	100
1,4-Dichlorobenzene (ug/L)	WT-4	18	0.23	0	0	0.23	0.23	0.23	0.23	0.23	100
1,4-Dichlorobenzene (ug/L)	WT-OF	6	0.23	0	0	0.23	0.23	0.23	0.23	0.23	100
2-Butanone [MEK] (ug/L)	ST-1	5	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	WT-1	26	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	WT-2	29	2.386	1.541	0.2862	2.1	2.1	2.1	2.1	10.4	96.55
2-Butanone [MEK] (ug/L)	WT-3	19	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	WT-4	18	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	WT-OF	6	3.248	2.813	1.148	2.1	2.1	5.545	2.1	8.99	83.33
2-Hexanone (ug/L)	ST-1	5	10	0	0	10	10	10	10	10	100
2-Hexanone (ug/L)	WT-1	27	2	0	0	2	2	2	2	2	100
2-Hexanone (ug/L)	WT-2	30	2	0	0	2	2	2	2	2	100
2-Hexanone (ug/L)	WT-3	19	2	0	0	2	2	2	2	2	100
2-Hexanone (ug/L)	WT-4	18	2	0	0	2	2	2	2	2	100
2-Hexanone (ug/L)	WT-OF	6	2	0	0	2	2	2	2	2	100
4-Methyl-2-pentanone [MIBK]...	ST-1	5	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	WT-1	27	2.144	0.3693	0.07108	2.1	2.1	2.1	1.5	3.9	92.59
4-Methyl-2-pentanone [MIBK]...	WT-2	29	2.065	0.1876	0.03483	2.1	2.1	2.1	1.09	2.1	96.55
4-Methyl-2-pentanone [MIBK]...	WT-3	17	2.059	0.1698	0.04118	2.1	2.1	2.1	1.4	2.1	94.12
4-Methyl-2-pentanone [MIBK]...	WT-4	18	2.044	0.2357	0.05556	2.1	2.1	2.1	1.1	2.1	94.44
4-Methyl-2-pentanone [MIBK]...	WT-OF	6	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
Acetone (ug/L)	ST-1	5	10	0	0	10	10	10	10	10	100
Acetone (ug/L)	WT-1	25	3.02	0.3219	0.06439	3.1	3.1	3.1	2.12	3.63	80
Acetone (ug/L)	WT-2	28	3.482	1.454	0.2747	3.1	3.1	3.1	3.1	10.3	89.29
Acetone (ug/L)	WT-3	19	3.472	1.482	0.3399	3.1	3.1	3.1	2.02	9.3	68.42

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 4:54 PM

<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
Acetone (ug/L)	WT-4	18	3.137	0.514	0.1212	3.1	3.1	3.1	1.97	4.9	88.89
Acetone (ug/L)	WT-OF	7	4.6	3.969	1.5	3.1	3.1	3.1	3.1	13.6	85.71
Acrylonitrile (ug/L)	ST-1	5	10	0	0	10	10	10	10	10	100
Acrylonitrile (ug/L)	WT-1	27	2.2	0	0	2.2	2.2	2.2	2.2	2.2	100
Acrylonitrile (ug/L)	WT-2	30	2.2	0	0	2.2	2.2	2.2	2.2	2.2	100
Acrylonitrile (ug/L)	WT-3	19	2.2	0	0	2.2	2.2	2.2	2.2	2.2	100
Acrylonitrile (ug/L)	WT-4	18	2.2	0	0	2.2	2.2	2.2	2.2	2.2	100
Acrylonitrile (ug/L)	WT-OF	6	2.2	0	0	2.2	2.2	2.2	2.2	2.2	100
Benzene (ug/L)	ST-1	5	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	WT-1	27	0.236	0.08078	0.01555	0.22	0.22	0.22	0.22	0.64	92.59
Benzene (ug/L)	WT-2	28	0.3746	0.4182	0.07904	0.22	0.22	0.22	0.138	1.94	71.43
Benzene (ug/L)	WT-3	17	0.2758	0.1394	0.03382	0.22	0.22	0.2585	0.191	0.701	64.71
Benzene (ug/L)	WT-4	18	0.2157	0.01815	0.004278	0.22	0.22	0.22	0.143	0.22	94.44
Benzene (ug/L)	WT-OF	6	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Bromochloromethane (ug/L)	ST-1	5	5	0	0	5	5	5	5	5	100
Bromochloromethane (ug/L)	WT-1	27	0.54	0	0	0.54	0.54	0.54	0.54	0.54	100
Bromochloromethane (ug/L)	WT-2	30	0.54	0	0	0.54	0.54	0.54	0.54	0.54	100
Bromochloromethane (ug/L)	WT-3	19	0.54	0	0	0.54	0.54	0.54	0.54	0.54	100
Bromochloromethane (ug/L)	WT-4	18	0.54	0	0	0.54	0.54	0.54	0.54	0.54	100
Bromochloromethane (ug/L)	WT-OF	6	0.54	0	0	0.54	0.54	0.54	0.54	0.54	100
Bromodichloromethane (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
Bromodichloromethane (ug/L)	WT-1	27	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
Bromodichloromethane (ug/L)	WT-2	30	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
Bromodichloromethane (ug/L)	WT-3	18	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
Bromodichloromethane (ug/L)	WT-4	17	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
Bromodichloromethane (ug/L)	WT-OF	6	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
Bromoform (ug/L)	ST-1	5	5	0	0	5	5	5	5	5	100
Bromoform (ug/L)	WT-1	27	0.78	0	0	0.78	0.78	0.78	0.78	0.78	100
Bromoform (ug/L)	WT-2	30	0.78	0	0	0.78	0.78	0.78	0.78	0.78	100
Bromoform (ug/L)	WT-3	19	0.78	0	0	0.78	0.78	0.78	0.78	0.78	100
Bromoform (ug/L)	WT-4	18	0.78	0	0	0.78	0.78	0.78	0.78	0.78	100
Bromoform (ug/L)	WT-OF	6	0.78	0	0	0.78	0.78	0.78	0.78	0.78	100
Bromomethane (ug/L)	ST-1	5	4	0	0	4	4	4	4	4	100
Bromomethane (ug/L)	WT-1	27	1.1	0	0	1.1	1.1	1.1	1.1	1.1	100
Bromomethane (ug/L)	WT-2	30	1.074	0.1404	0.02563	1.1	1.1	1.1	0.331	1.1	96.67
Bromomethane (ug/L)	WT-3	19	1.058	0.1817	0.04168	1.1	1.1	1.1	0.308	1.1	94.74
Bromomethane (ug/L)	WT-4	18	1.055	0.1909	0.045	1.1	1.1	1.1	0.29	1.1	94.44
Bromomethane (ug/L)	WT-OF	6	1.1	0	0	1.1	1.1	1.1	1.1	1.1	100
Carbon Disulfide (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	WT-1	27	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	WT-2	30	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	WT-3	17	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	WT-4	18	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	WT-OF	6	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Tetrachloride (ug/L)	ST-1	5	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	WT-1	27	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	WT-2	30	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	WT-3	17	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	WT-4	18	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	WT-OF	6	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 4:54 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Chlorobenzene (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	WT-1	27	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	WT-2	30	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	WT-3	19	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	WT-4	18	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	WT-OF	6	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorodibromomethane (ug/L)	ST-1	5	5	0	0	5	5	5	5	5	100
Chlorodibromomethane (ug/L)	WT-1	27	0.75	0	0	0.75	0.75	0.75	0.75	0.75	100
Chlorodibromomethane (ug/L)	WT-2	30	0.75	0	0	0.75	0.75	0.75	0.75	0.75	100
Chlorodibromomethane (ug/L)	WT-3	18	0.75	0	0	0.75	0.75	0.75	0.75	0.75	100
Chlorodibromomethane (ug/L)	WT-4	18	0.75	0	0	0.75	0.75	0.75	0.75	0.75	100
Chlorodibromomethane (ug/L)	WT-OF	6	0.75	0	0	0.75	0.75	0.75	0.75	0.75	100
Chloroethane (ug/L)	ST-1	5	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	WT-1	27	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	WT-2	30	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	WT-3	19	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	WT-4	18	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	WT-OF	6	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroform (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
Chloroform (ug/L)	WT-1	27	1.3	0	0	1.3	1.3	1.3	1.3	1.3	100
Chloroform (ug/L)	WT-2	29	1.3	0	0	1.3	1.3	1.3	1.3	1.3	100
Chloroform (ug/L)	WT-3	18	1.3	0	0	1.3	1.3	1.3	1.3	1.3	100
Chloroform (ug/L)	WT-4	17	1.3	0	0	1.3	1.3	1.3	1.3	1.3	100
Chloroform (ug/L)	WT-OF	6	1.3	0	0	1.3	1.3	1.3	1.3	1.3	100
Chloromethane (ug/L)	ST-1	5	3	0	0	3	3	3	3	3	100
Chloromethane (ug/L)	WT-1	27	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	WT-2	30	0.6122	0.01223	0.002233	0.61	0.61	0.61	0.61	0.677	96.67
Chloromethane (ug/L)	WT-3	19	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	WT-4	18	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	WT-OF	6	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
cis-1,2-Dichloroethene (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	WT-1	27	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	WT-2	30	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	WT-3	19	0.2074	0.01643	0.003769	0.21	0.21	0.21	0.142	0.229	89.47
cis-1,2-Dichloroethene (ug/L)	WT-4	18	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	WT-OF	6	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,3-Dichloropropene (ug/L)	ST-1	5	5	0	0	5	5	5	5	5	100
cis-1,3-Dichloropropene (ug/L)	WT-1	27	0.25	0	0	0.25	0.25	0.25	0.25	0.25	100
cis-1,3-Dichloropropene (ug/L)	WT-2	30	0.25	0	0	0.25	0.25	0.25	0.25	0.25	100
cis-1,3-Dichloropropene (ug/L)	WT-3	19	0.25	0	0	0.25	0.25	0.25	0.25	0.25	100
cis-1,3-Dichloropropene (ug/L)	WT-4	18	0.25	0	0	0.25	0.25	0.25	0.25	0.25	100
cis-1,3-Dichloropropene (ug/L)	WT-OF	6	0.25	0	0	0.25	0.25	0.25	0.25	0.25	100
Dibromomethane (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
Dibromomethane (ug/L)	WT-1	27	0.33	0	0	0.33	0.33	0.33	0.33	0.33	100
Dibromomethane (ug/L)	WT-2	30	0.33	0	0	0.33	0.33	0.33	0.33	0.33	100
Dibromomethane (ug/L)	WT-3	19	0.33	0	0	0.33	0.33	0.33	0.33	0.33	100
Dibromomethane (ug/L)	WT-4	18	0.33	0	0	0.33	0.33	0.33	0.33	0.33	100
Dibromomethane (ug/L)	WT-OF	6	0.33	0	0	0.33	0.33	0.33	0.33	0.33	100
Ethylbenzene (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	WT-1	27	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100

Box & Whiskers Plot

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<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
Ethylbenzene (ug/L)	WT-2	29	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	WT-3	17	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	WT-4	18	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	WT-OF	6	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Iodomethane (ug/L)	ST-1	5	10	0	0	10	10	10	10	10	100
Iodomethane (ug/L)	WT-1	27	7	0	0	7	7	7	7	7	100
Iodomethane (ug/L)	WT-2	30	7	0	0	7	7	7	7	7	100
Iodomethane (ug/L)	WT-3	19	7	0	0	7	7	7	7	7	100
Iodomethane (ug/L)	WT-4	18	7	0	0	7	7	7	7	7	100
Iodomethane (ug/L)	WT-OF	6	7	0	0	7	7	7	7	7	100
Methylene Chloride (ug/L)	ST-1	5	5	0	0	5	5	5	5	5	100
Methylene Chloride (ug/L)	WT-1	27	1.549	0.4349	0.08369	1.7	1.7	1.7	0.247	1.7	88.89
Methylene Chloride (ug/L)	WT-2	29	1.7	0	0	1.7	1.7	1.7	1.7	1.7	100
Methylene Chloride (ug/L)	WT-3	19	1.623	0.3347	0.07679	1.7	1.7	1.7	0.241	1.7	94.74
Methylene Chloride (ug/L)	WT-4	18	1.62	0.3378	0.07961	1.7	1.7	1.7	0.267	1.7	94.44
Methylene Chloride (ug/L)	WT-OF	6	1.7	0	0	1.7	1.7	1.7	1.7	1.7	100
Styrene (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
Styrene (ug/L)	WT-1	27	0.37	0	0	0.37	0.37	0.37	0.37	0.37	100
Styrene (ug/L)	WT-2	30	0.37	0	0	0.37	0.37	0.37	0.37	0.37	100
Styrene (ug/L)	WT-3	17	0.37	0	0	0.37	0.37	0.37	0.37	0.37	100
Styrene (ug/L)	WT-4	18	0.37	0	0	0.37	0.37	0.37	0.37	0.37	100
Styrene (ug/L)	WT-OF	6	0.37	0	0	0.37	0.37	0.37	0.37	0.37	100
Tetrachloroethene (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	WT-1	27	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	WT-2	30	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	WT-3	19	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	WT-4	18	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	WT-OF	6	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Toluene (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	WT-1	27	1.353	2.773	0.5337	0.43	0.43	0.43	0.43	12.7	85.19
Toluene (ug/L)	WT-2	29	0.4928	0.2372	0.04405	0.43	0.43	0.43	0.43	1.47	93.1
Toluene (ug/L)	WT-3	17	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	WT-4	18	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	WT-OF	6	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
trans-1,2-Dichloroethene (u...	ST-1	5	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	WT-1	27	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	WT-2	30	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	WT-3	19	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	WT-4	18	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	WT-OF	6	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,3-Dichloropropene (...)	ST-1	5	5	0	0	5	5	5	5	5	100
trans-1,3-Dichloropropene (...)	WT-1	27	0.5541	0.03079	0.005926	0.56	0.56	0.56	0.4	0.56	96.3
trans-1,3-Dichloropropene (...)	WT-2	30	0.56	0	0	0.56	0.56	0.56	0.56	0.56	100
trans-1,3-Dichloropropene (...)	WT-3	19	0.56	0	0	0.56	0.56	0.56	0.56	0.56	100
trans-1,3-Dichloropropene (...)	WT-4	18	0.56	0	0	0.56	0.56	0.56	0.56	0.56	100
trans-1,3-Dichloropropene (...)	WT-OF	6	0.56	0	0	0.56	0.56	0.56	0.56	0.56	100
trans-1,4-Dichloro-2-Butene...	ST-1	5	10	0	0	10	10	10	10	10	100
trans-1,4-Dichloro-2-Butene...	WT-1	27	1.1	0	0	1.1	1.1	1.1	1.1	1.1	100
trans-1,4-Dichloro-2-Butene...	WT-2	30	1.1	0	0	1.1	1.1	1.1	1.1	1.1	100
trans-1,4-Dichloro-2-Butene...	WT-3	19	1.1	0	0	1.1	1.1	1.1	1.1	1.1	100

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<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
trans-1,4-Dichloro-2-Butene...	WT-4	18	1.1	0	0	1.1	1.1	1.1	1.1	1.1	100
trans-1,4-Dichloro-2-Butene...	WT-OF	6	1.1	0	0	1.1	1.1	1.1	1.1	1.1	100
Trichloroethene (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	WT-1	27	0.4305	0.002502	0.0004815	0.43	0.43	0.43	0.43	0.443	96.3
Trichloroethene (ug/L)	WT-2	30	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	WT-3	19	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	WT-4	18	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	WT-OF	6	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichlorofluoromethane (ug/L)	ST-1	5	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	WT-1	27	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	WT-2	30	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	WT-3	19	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	WT-4	18	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	WT-OF	6	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Vinyl Acetate (ug/L)	ST-1	5	2	0	0	2	2	2	2	2	100
Vinyl Acetate (ug/L)	WT-1	27	2.5	0	0	2.5	2.5	2.5	2.5	2.5	100
Vinyl Acetate (ug/L)	WT-2	30	2.5	0	0	2.5	2.5	2.5	2.5	2.5	100
Vinyl Acetate (ug/L)	WT-3	19	2.5	0	0	2.5	2.5	2.5	2.5	2.5	100
Vinyl Acetate (ug/L)	WT-4	18	2.5	0	0	2.5	2.5	2.5	2.5	2.5	100
Vinyl Acetate (ug/L)	WT-OF	6	2.5	0	0	2.5	2.5	2.5	2.5	2.5	100
Vinyl Chloride (ug/L)	ST-1	5	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	WT-1	27	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	WT-2	30	0.1818	0.009676	0.001767	0.18	0.18	0.18	0.18	0.233	96.67
Vinyl Chloride (ug/L)	WT-3	19	0.1803	0.001147	0.0002632	0.18	0.18	0.18	0.18	0.185	94.74
Vinyl Chloride (ug/L)	WT-4	18	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	WT-OF	6	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Xylenes, Total (ug/L)	ST-1	5	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	WT-1	27	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	WT-2	29	0.5783	0.96	0.1783	0.4	0.4	0.4	0.4	5.57	96.55
Xylenes, Total (ug/L)	WT-3	17	0.4091	0.03759	0.009118	0.4	0.4	0.4	0.4	0.555	94.12
Xylenes, Total (ug/L)	WT-4	18	0.4047	0.0198	0.004667	0.4	0.4	0.4	0.4	0.484	94.44
Xylenes, Total (ug/L)	WT-OF	6	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100

Groundwater Underdrain –

Trends

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 1:13 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	ST-1	0	0	10	No	5	100	0.02	NP
Antimony (mg/L)	WT-1	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	WT-2	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	WT-3	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	WT-4	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	WT-OF	0	0	10	No	5	100	0.02	NP
Arsenic (mg/L)	ST-1	0	3	13	No	6	66.67	0.02	NP
Arsenic (mg/L)	WT-1	0.0001053	5	20	No	8	37.5	0.02	NP
Arsenic (mg/L)	WT-2	-0.00168	-6	-20	No	8	12.5	0.02	NP
Arsenic (mg/L)	WT-3	0.002996	6	20	No	8	0	0.02	NP
Arsenic (mg/L)	WT-4	0.00002486	6	20	No	8	37.5	0.02	NP
Arsenic (mg/L)	WT-OF	0.0001657	0	10	No	5	20	0.02	NP
Barium (mg/L)	ST-1	-0.007476	-1	-13	No	6	0	0.02	NP
Barium (mg/L)	WT-1	0.02466	4	20	No	8	0	0.02	NP
Barium (mg/L)	WT-2	0.01192	4	20	No	8	0	0.02	NP
Barium (mg/L)	WT-3	0.06158	20	20	No	8	0	0.02	NP
Barium (mg/L)	WT-4	0.02272	16	20	No	8	0	0.02	NP
Barium (mg/L)	WT-OF	0.02736	8	10	No	5	0	0.02	NP
Beryllium (mg/L)	ST-1	0	0	10	No	5	100	0.02	NP
Beryllium (mg/L)	WT-1	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	WT-2	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	WT-3	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	WT-4	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	WT-OF	0	0	10	No	5	100	0.02	NP
Cadmium (mg/L)	ST-1	0	0	10	No	5	100	0.02	NP
Cadmium (mg/L)	WT-1	0	-7	-20	No	8	87.5	0.02	NP
Cadmium (mg/L)	WT-2	0	1	20	No	8	75	0.02	NP
Cadmium (mg/L)	WT-3	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	WT-4	0	7	20	No	8	75	0.02	NP
Cadmium (mg/L)	WT-OF	0	-4	-10	No	5	80	0.02	NP
Chromium (mg/L)	ST-1	0	0	10	No	5	100	0.02	NP
Chromium (mg/L)	WT-1	0	3	20	No	8	75	0.02	NP
Chromium (mg/L)	WT-2	0	0	20	No	8	100	0.02	NP
Chromium (mg/L)	WT-3	0	-7	-20	No	8	87.5	0.02	NP
Chromium (mg/L)	WT-4	0	-3	-20	No	8	75	0.02	NP
Chromium (mg/L)	WT-OF	0	0	10	No	5	100	0.02	NP
Cobalt (mg/L)	ST-1	-0.005425	-10	-13	No	6	50	0.02	NP
Cobalt (mg/L)	WT-1	-0.0005517	-6	-20	No	8	0	0.02	NP
Cobalt (mg/L)	WT-2	-0.0004387	-6	-20	No	8	0	0.02	NP
Cobalt (mg/L)	WT-3	0.0003722	12	20	No	8	0	0.02	NP
Cobalt (mg/L)	WT-4	0.0003412	15	20	No	8	25	0.02	NP
Cobalt (mg/L)	WT-OF	-0.0003176	-2	-8	No	4	0	0.02	NP
Copper (mg/L)	ST-1	0	0	10	No	5	100	0.02	NP
Copper (mg/L)	WT-1	0	3	20	No	8	75	0.02	NP
Copper (mg/L)	WT-2	0	0	20	No	8	100	0.02	NP
Copper (mg/L)	WT-3	0	-9	-20	No	8	75	0.02	NP
Copper (mg/L)	WT-4	0	-9	-20	No	8	75	0.02	NP
Copper (mg/L)	WT-OF	0	0	10	No	5	100	0.02	NP
Lead (mg/L)	ST-1	0	-1	-13	No	6	83.33	0.02	NP
Lead (mg/L)	WT-1	0.00003768	12	20	No	8	50	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 1:13 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Lead (mg/L)	WT-2	0	-13	-20	No	8	75	0.02	NP
Lead (mg/L)	WT-3	0	7	20	No	8	87.5	0.02	NP
Lead (mg/L)	WT-4	0.0002357	16	20	No	8	62.5	0.02	NP
Lead (mg/L)	WT-OF	0	0	10	No	5	100	0.02	NP
Nickel (mg/L)	ST-1	0	4	10	No	5	80	0.02	NP
Nickel (mg/L)	WT-1	0.0007088	7	20	No	8	25	0.02	NP
Nickel (mg/L)	WT-2	-0.001228	-10	-20	No	8	0	0.02	NP
Nickel (mg/L)	WT-3	0.001213	16	20	No	8	0	0.02	NP
Nickel (mg/L)	WT-4	0.003785	12	20	No	8	0	0.02	NP
Nickel (mg/L)	WT-OF	0.009474	2	10	No	5	0	0.02	NP
Selenium (mg/L)	ST-1	0	-1	-13	No	6	83.33	0.02	NP
Selenium (mg/L)	WT-1	0	-7	-20	No	8	87.5	0.02	NP
Selenium (mg/L)	WT-2	0	-7	-20	No	8	87.5	0.02	NP
Selenium (mg/L)	WT-3	0	1	20	No	8	87.5	0.02	NP
Selenium (mg/L)	WT-4	0	-4	-20	No	8	75	0.02	NP
Selenium (mg/L)	WT-OF	0	-2	-10	No	5	80	0.02	NP
Silver (mg/L)	ST-1	0	0	10	No	5	100	0.02	NP
Silver (mg/L)	WT-1	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	WT-2	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	WT-3	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	WT-4	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	WT-OF	0	0	10	No	5	100	0.02	NP
Thallium (mg/L)	ST-1	0	0	10	No	5	100	0.02	NP
Thallium (mg/L)	WT-1	0	3	20	No	8	87.5	0.02	NP
Thallium (mg/L)	WT-2	0	3	20	No	8	75	0.02	NP
Thallium (mg/L)	WT-3	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	WT-4	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	WT-OF	0	0	10	No	5	100	0.02	NP
Vanadium (mg/L)	ST-1	0	0	10	No	5	100	0.02	NP
Vanadium (mg/L)	WT-1	0	11	20	No	8	75	0.02	NP
Vanadium (mg/L)	WT-2	0	-1	-20	No	8	75	0.02	NP
Vanadium (mg/L)	WT-3	0	7	20	No	8	87.5	0.02	NP
Vanadium (mg/L)	WT-4	0	9	20	No	8	75	0.02	NP
Vanadium (mg/L)	WT-OF	0	0	10	No	5	100	0.02	NP
Zinc (mg/L)	ST-1	0	-5	-13	No	6	66.67	0.02	NP
Zinc (mg/L)	WT-1	0	3	20	No	8	75	0.02	NP
Zinc (mg/L)	WT-2	0	-1	-20	No	8	75	0.02	NP
Zinc (mg/L)	WT-3	0	-7	-20	No	8	87.5	0.02	NP
Zinc (mg/L)	WT-4	0	-9	-20	No	8	75	0.02	NP
Zinc (mg/L)	WT-OF	0	0	10	No	5	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 5:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,1,1,2-Tetrachloroethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,1,1,2-Tetrachloroethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,1,1,2-Tetrachloroethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,1,1,2-Tetrachloroethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,1,1,2-Tetrachloroethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,1,1,2-Tetrachloroethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,1,2,2-Tetrachloroethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,1,2,2-Tetrachloroethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,1,2,2-Tetrachloroethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,1,2,2-Tetrachloroethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,1,2,2-Tetrachloroethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,1,2,2-Tetrachloroethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,1,2-Trichloroethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,1,2-Trichloroethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,1,2-Trichloroethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,1,2-Trichloroethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,1,2-Trichloroethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,1,2-Trichloroethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,1-Dichloroethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,1-Dichloroethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	WT-2	0	-1	-20	No	8	87.5	0.02	NP
1,1-Dichloroethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,1-Dichloroethene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,1-Dichloroethene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,2,3-Trichloropropane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,2,3-Trichloropropane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,2,3-Trichloropropane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,2,3-Trichloropropane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,2,3-Trichloropropane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,2,3-Trichloropropane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,2-Dibromo-3-Chloropropane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,2-Dibromo-3-Chloropropane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,2-Dibromo-3-Chloropropane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,2-Dibromo-3-Chloropropane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,2-Dibromo-3-Chloropropane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,2-Dibromo-3-Chloropropane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,2-Dibromoethane [EDB] (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,2-Dibromoethane [EDB] (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 5:00 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,2-Dibromoethane [EDB] (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,2-Dibromoethane [EDB] (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,2-Dibromoethane [EDB] (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,2-Dibromoethane [EDB] (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,2-Dichlorobenzene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,2-Dichlorobenzene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,2-Dichlorobenzene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,2-Dichlorobenzene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,2-Dichlorobenzene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,2-Dichlorobenzene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,2-Dichloroethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,2-Dichloroethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,2-Dichloropropane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,2-Dichloropropane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
1,4-Dichlorobenzene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
1,4-Dichlorobenzene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
1,4-Dichlorobenzene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
1,4-Dichlorobenzene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
1,4-Dichlorobenzene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
1,4-Dichlorobenzene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
2-Butanone [MEK] (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
2-Butanone [MEK] (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	WT-OF	0	3	13	No	6	83.33	0.02	NP
2-Hexanone (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
2-Hexanone (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
2-Hexanone (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
2-Hexanone (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
2-Hexanone (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
2-Hexanone (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	WT-1	0	5	20	No	8	75	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	WT-3	0	3	20	No	8	87.5	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	WT-4	0	3	20	No	8	87.5	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Acetone (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Acetone (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	WT-3	0	4	20	No	8	62.5	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 5:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Acetone (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	WT-OF	0	2	17	No	7	85.71	0.02	NP
Acrylonitrile (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Acrylonitrile (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Acrylonitrile (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Acrylonitrile (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Acrylonitrile (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Acrylonitrile (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Benzene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Benzene (ug/L)	WT-1	0	5	20	No	8	87.5	0.02	NP
Benzene (ug/L)	WT-2	0	-7	-20	No	8	75	0.02	NP
Benzene (ug/L)	WT-3	0	8	20	No	8	62.5	0.02	NP
Benzene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Bromochloromethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Bromochloromethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Bromochloromethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Bromochloromethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Bromochloromethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Bromochloromethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Bromodichloromethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Bromodichloromethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Bromodichloromethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Bromodichloromethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Bromodichloromethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Bromodichloromethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Bromoform (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Bromoform (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Bromoform (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Bromoform (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Bromoform (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Bromoform (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Bromomethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Bromomethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Bromomethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Bromomethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Bromomethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Bromomethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Carbon Disulfide (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Carbon Disulfide (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Carbon Tetrachloride (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Carbon Tetrachloride (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 5:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Chlorobenzene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Chlorobenzene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Chlorodibromomethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Chlorodibromomethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Chlorodibromomethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Chlorodibromomethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Chlorodibromomethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Chlorodibromomethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Chloroethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Chloroethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Chloroform (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Chloroform (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Chloroform (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Chloroform (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Chloroform (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Chloroform (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Chloromethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Chloromethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
cis-1,3-Dichloropropene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
cis-1,3-Dichloropropene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
cis-1,3-Dichloropropene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
cis-1,3-Dichloropropene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
cis-1,3-Dichloropropene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
cis-1,3-Dichloropropene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Dibromomethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Dibromomethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Dibromomethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Dibromomethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Dibromomethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Dibromomethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Ethylbenzene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Ethylbenzene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 5:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Ethylbenzene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Iodomethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Iodomethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Iodomethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Iodomethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Iodomethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Iodomethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Methylene Chloride (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Methylene Chloride (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Methylene Chloride (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Methylene Chloride (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Methylene Chloride (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Methylene Chloride (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Styrene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Styrene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Styrene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Styrene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Styrene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Styrene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Tetrachloroethene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Tetrachloroethene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Toluene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Toluene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
trans-1,3-Dichloropropene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
trans-1,3-Dichloropropene (ug/L)	WT-1	0	3	20	No	8	87.5	0.02	NP
trans-1,3-Dichloropropene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
trans-1,3-Dichloropropene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
trans-1,3-Dichloropropene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
trans-1,3-Dichloropropene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
trans-1,4-Dichloro-2-Butene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
trans-1,4-Dichloro-2-Butene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
trans-1,4-Dichloro-2-Butene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
trans-1,4-Dichloro-2-Butene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP

Trend Test

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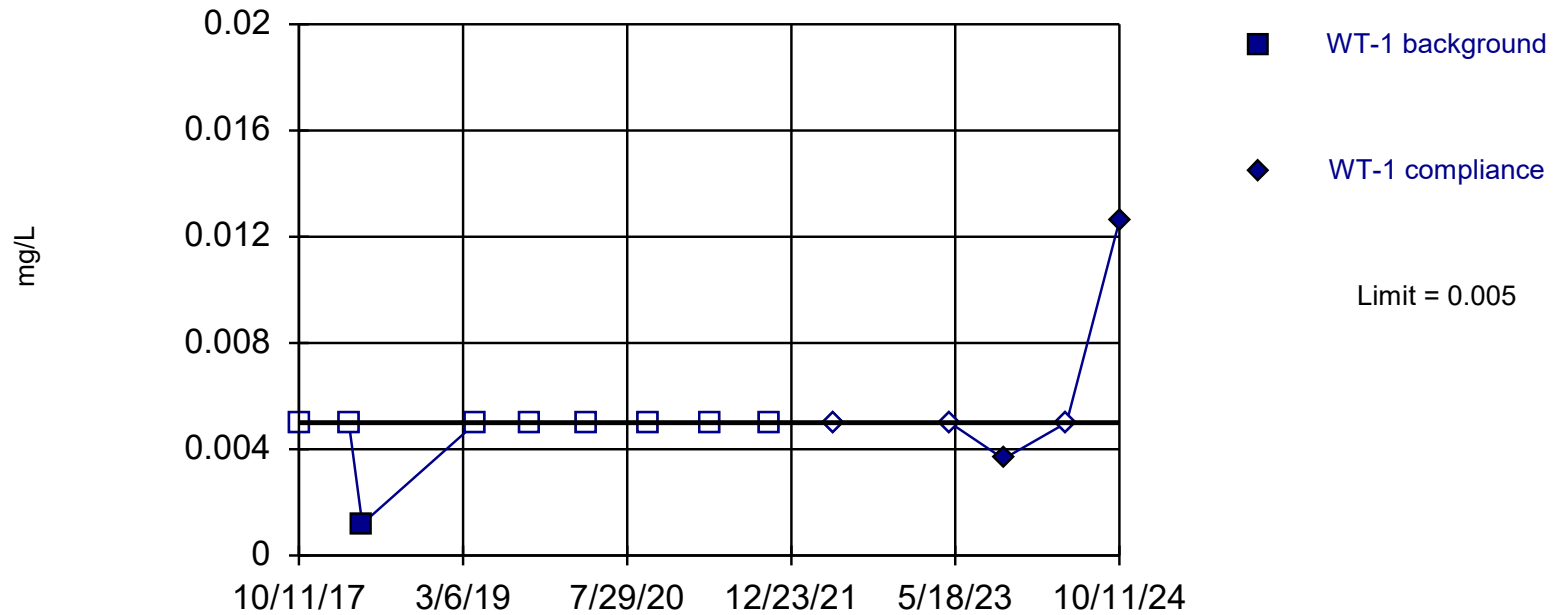
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
trans-1,4-Dichloro-2-Butene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
trans-1,4-Dichloro-2-Butene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Trichloroethene (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Trichloroethene (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Trichlorofluoromethane (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Trichlorofluoromethane (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Vinyl Acetate (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Vinyl Acetate (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Vinyl Acetate (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Vinyl Acetate (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Vinyl Acetate (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Vinyl Acetate (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Vinyl Chloride (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Vinyl Chloride (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP
Xylenes, Total (ug/L)	ST-1	0	0	10	No	5	100	0.02	NP
Xylenes, Total (ug/L)	WT-1	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	WT-2	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	WT-3	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	WT-4	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	WT-OF	0	0	13	No	6	100	0.02	NP

Groundwater Underdrain –
Prediction Limits

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2). Insufficient data to test for seasonality: data were not deseasonalized.

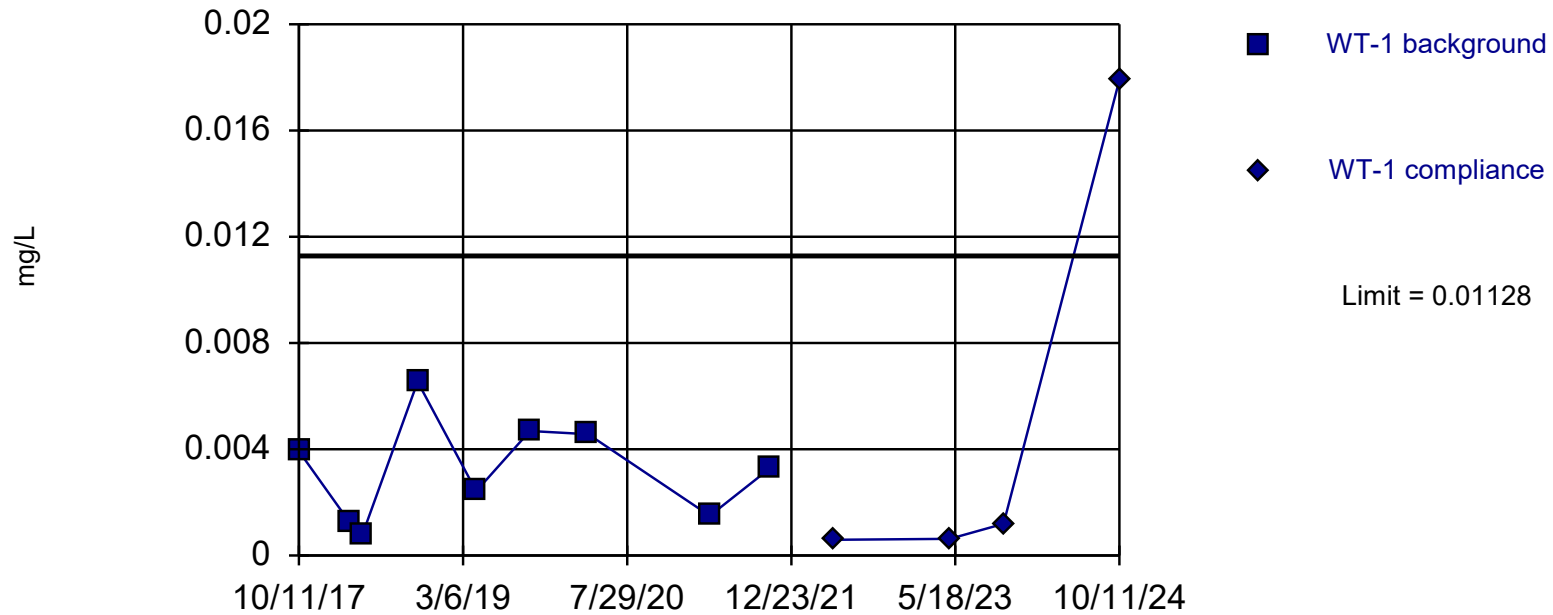
Constituent: Chromium Analysis Run 1/22/2025 2:22 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.003227, Std. Dev.=0.001899, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9552, critical = 0.764. Kappa = 4.243 (c=14, w=42, 1 of 2, event alpha = 0.05132). Report alpha = 0.00008959.

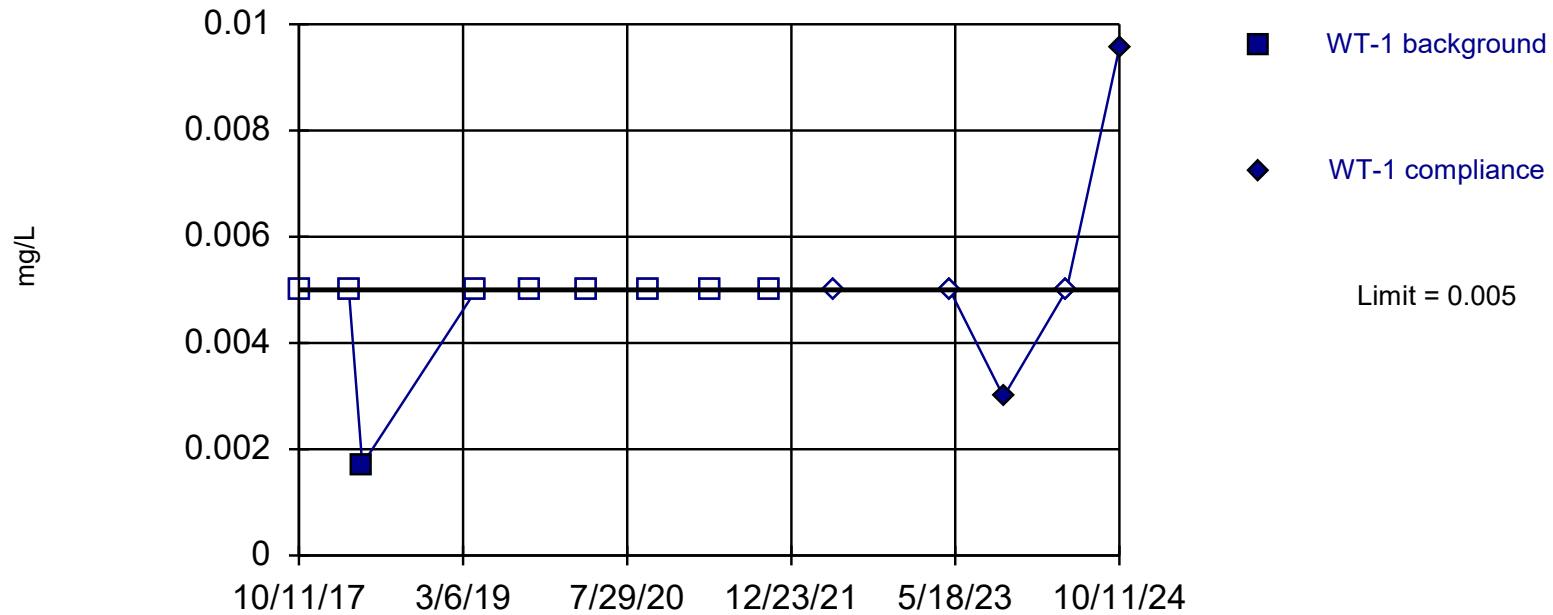
Constituent: Cobalt Analysis Run 1/22/2025 2:22 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2). Insufficient data to test for seasonality: data were not deseasonalized.

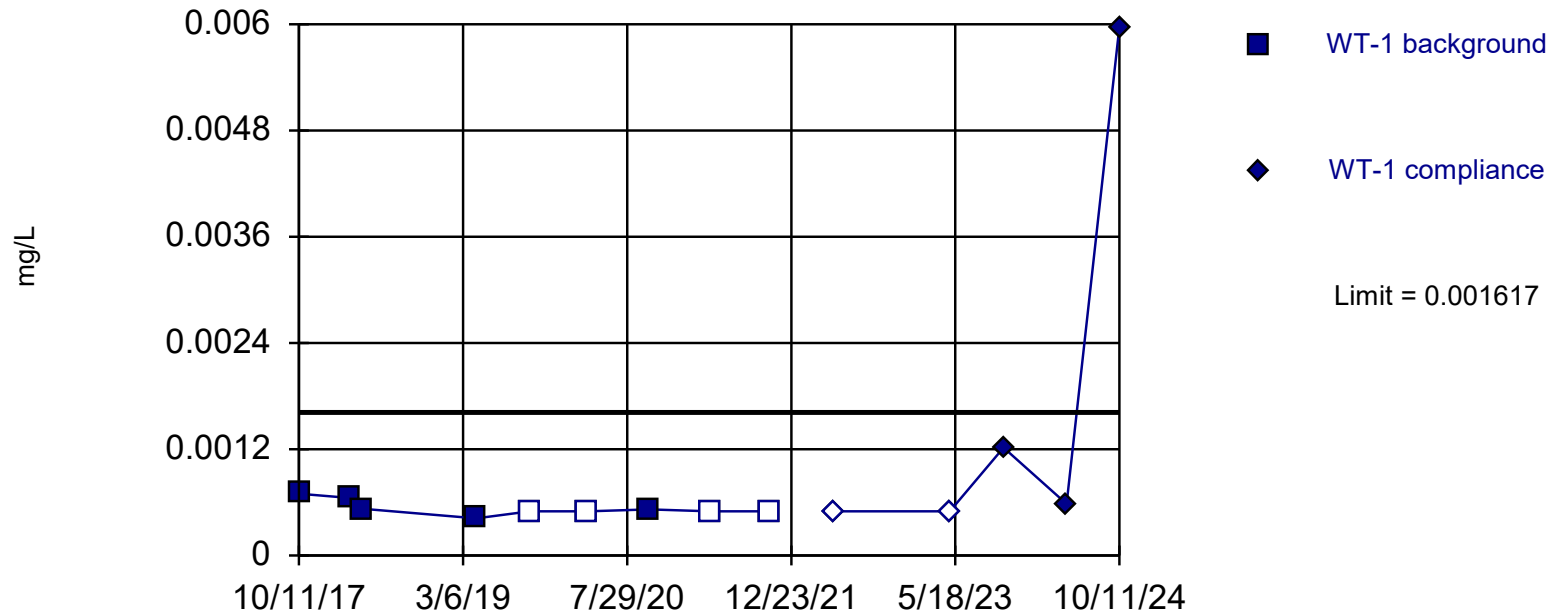
Constituent: Copper Analysis Run 1/22/2025 2:22 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Aitchison's Adjustment): Mean=0.0003133, Std. Dev.=0.0003073, n=9, 44.44% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8328, critical = 0.764. Kappa = 4.243 (c=14, w=42, 1 of 2, event alpha = 0.05132). Report alpha = 0.00008959.

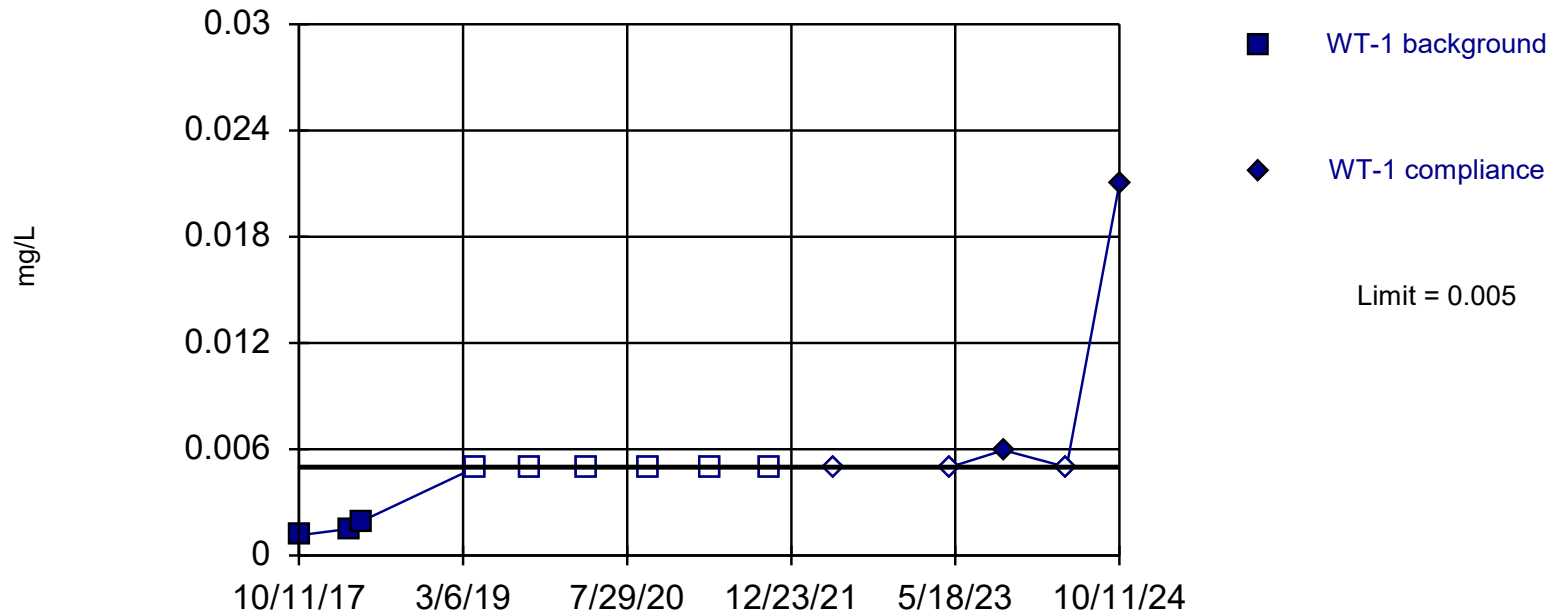
Constituent: Lead Analysis Run 1/22/2025 2:22 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2). Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Vanadium Analysis Run 1/22/2025 2:22 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Prediction Limit

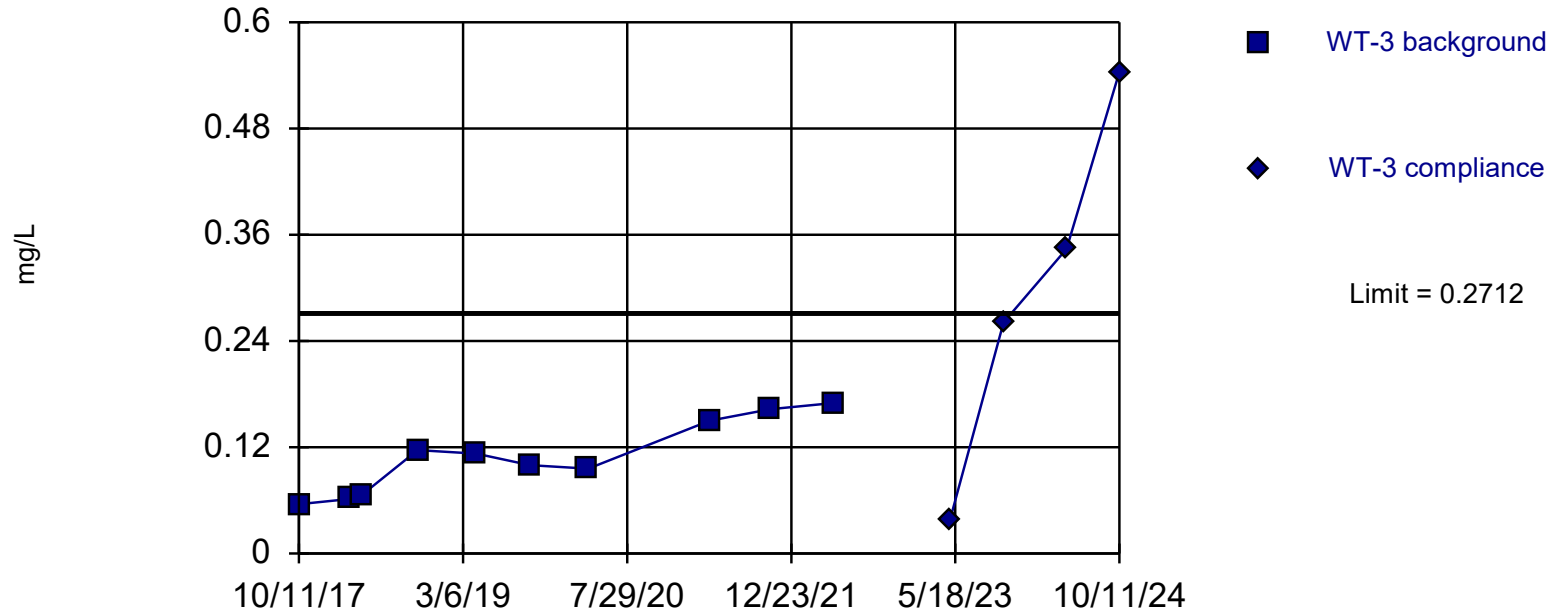
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/22/2025, 2:28 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	WT-1	0.001	10/11/2024	0.001ND	No	10	n/a	90	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Antimony (mg/L)	WT-2	0.001	10/11/2024	0.001ND	No	10	n/a	90	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	WT-1	0.009447	10/11/2024	0.00668	No	10	n/a	30	Aitchison`s	No	0.00008959	Param Intra 1 of 2
Arsenic (mg/L)	WT-2	0.1016	10/11/2024	0.0126	No	10	n/a	10	None	x^(1/3)	0.00008959	Param Intra 1 of 2
Barium (mg/L)	WT-1	0.4891	10/11/2024	0.48	No	9	n/a	0	None	No	0.00008959	Param Intra 1 of 2
Barium (mg/L)	WT-2	0.3807	10/11/2024	0.205	No	10	n/a	0	None	No	0.00008959	Param Intra 1 of 2
Beryllium (mg/L)	WT-1	0.00033	10/11/2024	0.00033ND	No	10	n/a	100	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	WT-2	0.000538	10/11/2024	0.00033ND	No	10	n/a	90	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	WT-1	0.0002	10/11/2024	0.000134J	No	10	n/a	100	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	WT-2	0.0001	10/11/2024	0.0001ND	No	10	n/a	90	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Chromium (mg/L)	WT-1	0.005	10/11/2024	0.0126	Yes	9	n/a	88.89	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Chromium (mg/L)	WT-2	0.0012	10/11/2024	0.0012ND	No	9	n/a	100	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	WT-1	0.01128	10/11/2024	0.0179	Yes	9	n/a	0	None	No	0.00008959	Param Intra 1 of 2
Cobalt (mg/L)	WT-2	0.01195	10/11/2024	0.00192	No	10	n/a	0	None	No	0.00008959	Param Intra 1 of 2
Copper (mg/L)	WT-1	0.005	10/11/2024	0.00956	Yes	9	n/a	88.89	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Copper (mg/L)	WT-2	0.0018	10/11/2024	0.0018ND	No	9	n/a	100	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Lead (mg/L)	WT-1	0.001617	10/11/2024	0.00597	Yes	9	n/a	44.44	Aitchison`s	No	0.00008959	Param Intra 1 of 2
Lead (mg/L)	WT-2	0.000575	10/11/2024	0.000334J	No	9	n/a	77.78	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Nickel (mg/L)	WT-1	0.04897	10/11/2024	0.0143	No	10	n/a	10	None	sqrt(x)	0.00008959	Param Intra 1 of 2
Nickel (mg/L)	WT-2	0.02661	10/11/2024	0.0025J	No	10	n/a	0	None	No	0.00008959	Param Intra 1 of 2
Selenium (mg/L)	WT-1	0.00233	10/11/2024	0.0014ND	No	10	n/a	80	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Selenium (mg/L)	WT-2	0.00178	10/11/2024	0.0014ND	No	10	n/a	90	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Silver (mg/L)	WT-1	0.00059	10/11/2024	0.0005ND	No	10	n/a	90	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Silver (mg/L)	WT-2	0.0005	10/11/2024	0.0005ND	No	10	n/a	100	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Thallium (mg/L)	WT-1	0.00057	10/11/2024	0.00057ND	No	10	n/a	90	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Thallium (mg/L)	WT-2	0.00057	10/11/2024	0.00057ND	No	10	n/a	90	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	WT-1	0.005	10/11/2024	0.021	Yes	9	n/a	66.67	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	WT-2	0.005	10/11/2024	0.00121J	No	9	n/a	88.89	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Zinc (mg/L)	WT-1	0.0315	10/11/2024	0.0291	No	10	n/a	90	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Zinc (mg/L)	WT-2	0.0307	10/11/2024	0.0097ND	No	10	n/a	90	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1093, Std. Dev.=0.04151, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9257, critical = 0.781. Kappa = 3.9 (c=14, w=42, 1 of 2, event alpha = 0.05132). Report alpha = 0.00008959.

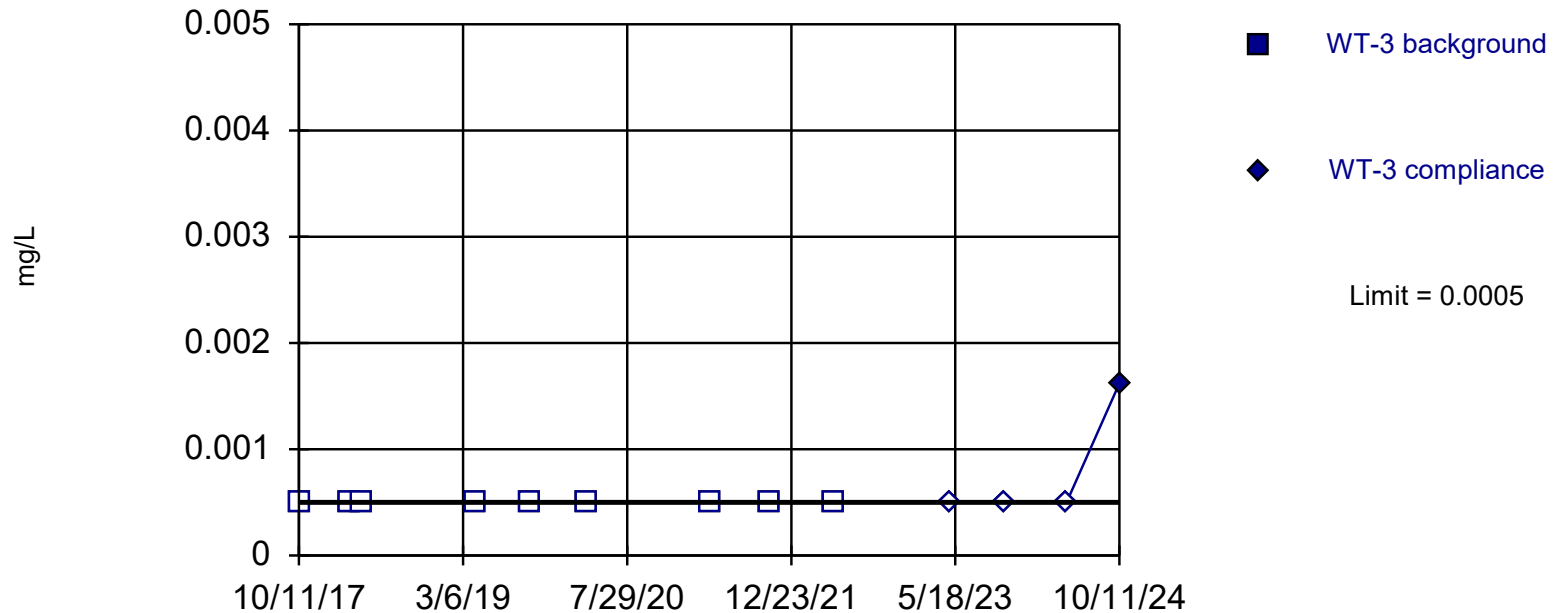
Constituent: Barium Analysis Run 1/22/2025 2:29 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 9$) were censored; limit is most recent reporting limit. Well-constituent pair annual $\alpha = 0.03586$. Individual comparison $\alpha = 0.01809$ (1 of 2). Insufficient data to test for seasonality: data were not deseasonalized.

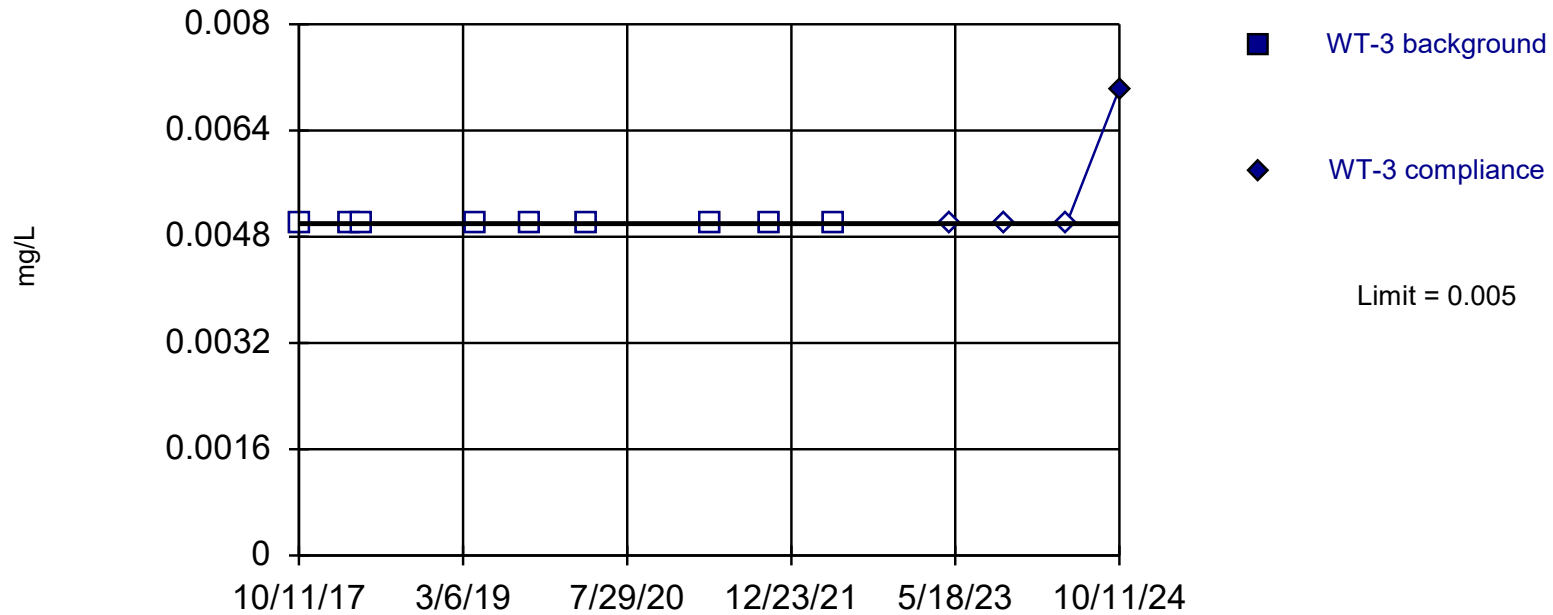
Constituent: Lead Analysis Run 1/22/2025 2:29 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 9$) were censored; limit is most recent reporting limit. Well-constituent pair annual $\alpha = 0.03586$. Individual comparison $\alpha = 0.01809$ (1 of 2). Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Vanadium Analysis Run 1/22/2025 2:29 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Prediction Limit

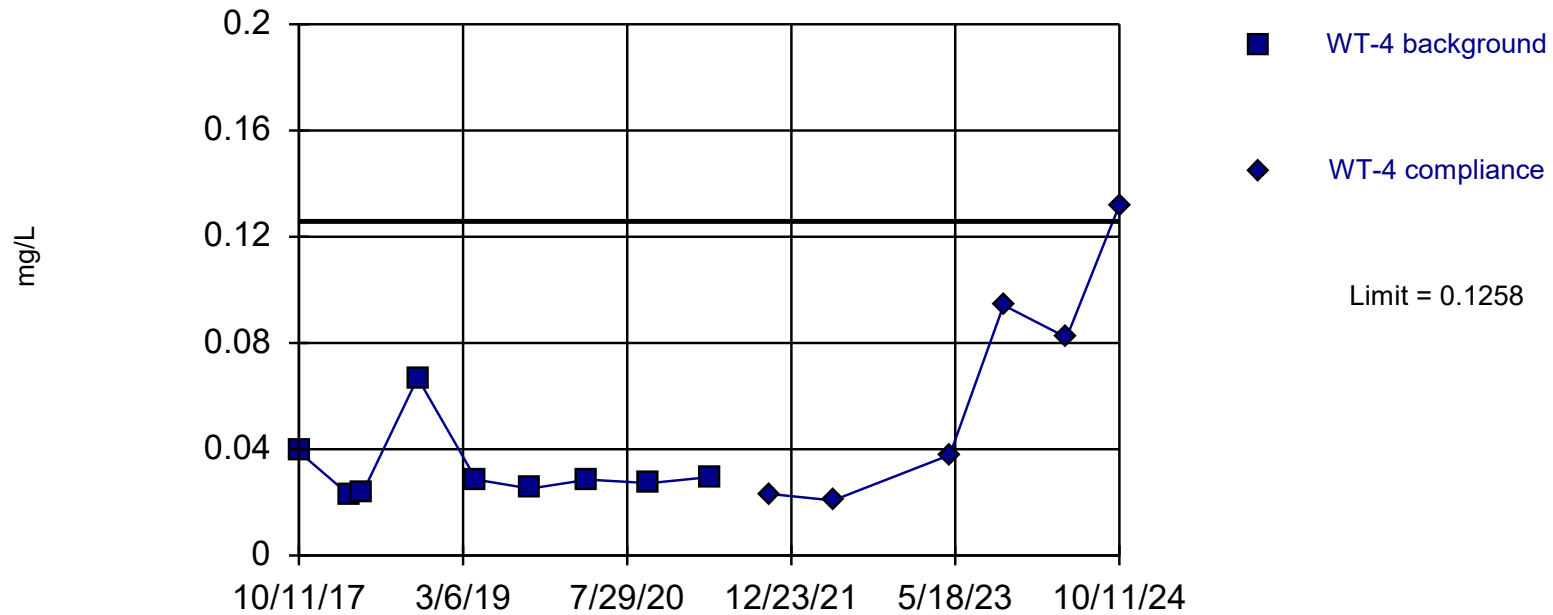
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/22/2025, 2:32 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	WT-3	0.001	10/11/2024	0.001ND	No	11	n/a	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	WT-3	0.03575	10/11/2024	0.0349	No	10	n/a	0	None	No	0.00008959	Param Intra 1 of 2
Barium (mg/L)	WT-3	0.2712	10/11/2024	0.544	Yes	10	n/a	0	None	No	0.00008959	Param Intra 1 of 2
Beryllium (mg/L)	WT-3	0.00033	10/11/2024	0.00033ND	No	10	n/a	100	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	WT-3	0.0001	10/11/2024	0.0001ND	No	10	n/a	100	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Chromium (mg/L)	WT-3	0.005	10/11/2024	0.00361J	No	9	n/a	100	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	WT-3	0.02079	10/11/2024	0.00456	No	10	n/a	0	None	sqrt(x)	0.00008959	Param Intra 1 of 2
Copper (mg/L)	WT-3	0.0052	10/11/2024	0.0032J	No	10	n/a	80	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Lead (mg/L)	WT-3	0.0005	10/11/2024	0.00162	Yes	9	n/a	100	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Nickel (mg/L)	WT-3	0.02137	10/11/2024	0.0071	No	10	n/a	0	None	No	0.00008959	Param Intra 1 of 2
Selenium (mg/L)	WT-3	0.0014	10/11/2024	0.0014ND	No	10	n/a	100	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2
Silver (mg/L)	WT-3	0.0005	10/11/2024	0.0005ND	No	11	n/a	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Thallium (mg/L)	WT-3	0.00057	10/11/2024	0.00057ND	No	11	n/a	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	WT-3	0.005	10/11/2024	0.00703	Yes	9	n/a	100	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Zinc (mg/L)	WT-3	0.02	10/11/2024	0.0115J	No	10	n/a	90	n/a	n/a	0.01476	NP Intra (NDs) 1 of 2

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-3.488, Std. Dev.=0.3333, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7825, critical = 0.764. Kappa = 4.243 (c=14, w=42, 1 of 2, event alpha = 0.05132). Report alpha = 0.00008959.

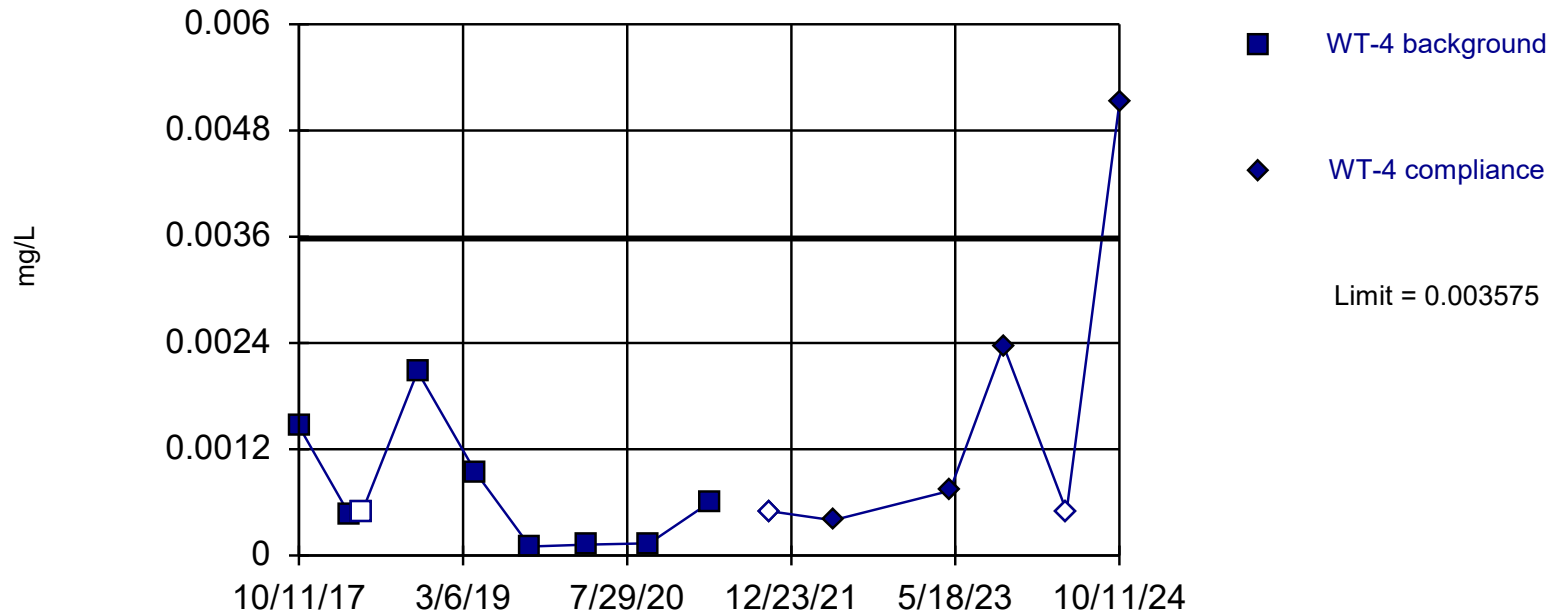
Constituent: Barium Analysis Run 1/22/2025 2:33 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.000712, Std. Dev.=0.0006747, n=9, 11.11% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8578, critical = 0.764. Kappa = 4.243 (c=14, w=42, 1 of 2, event alpha = 0.05132). Report alpha = 0.00008959.

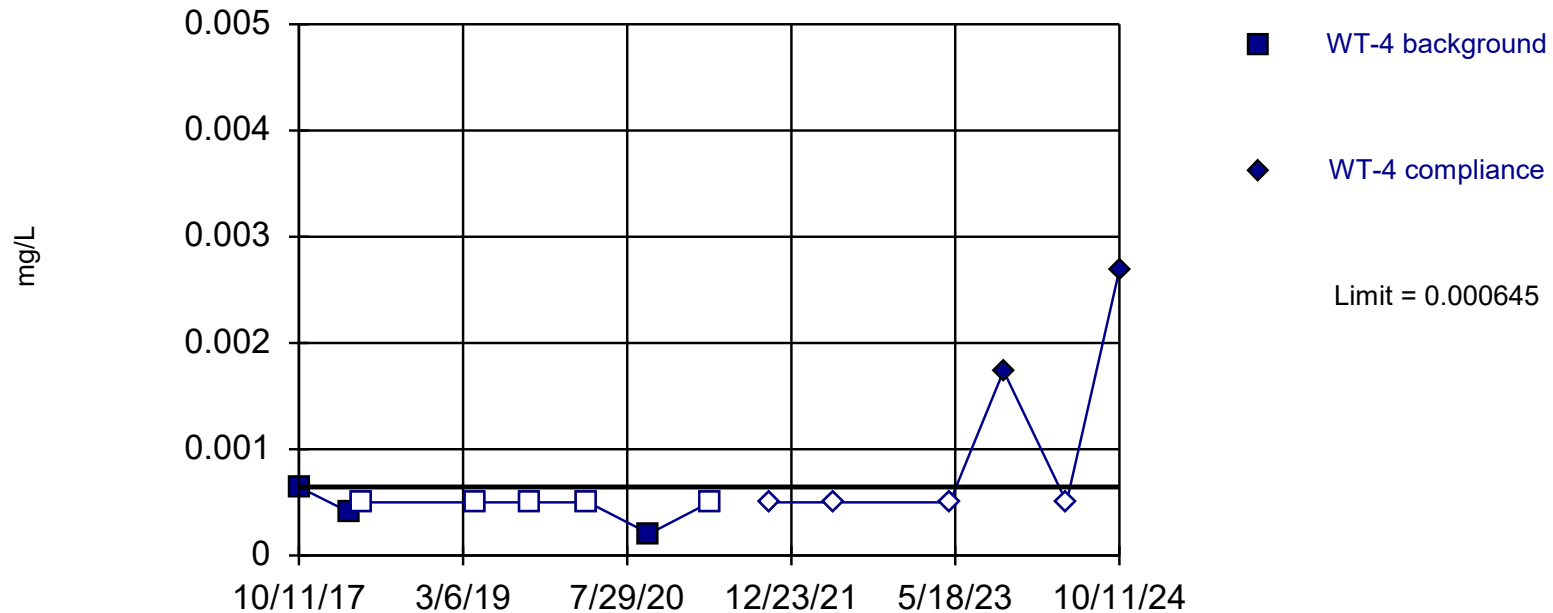
Constituent: Cobalt Analysis Run 1/22/2025 2:33 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Insufficient data to test for seasonality: data were not deseasonalized.

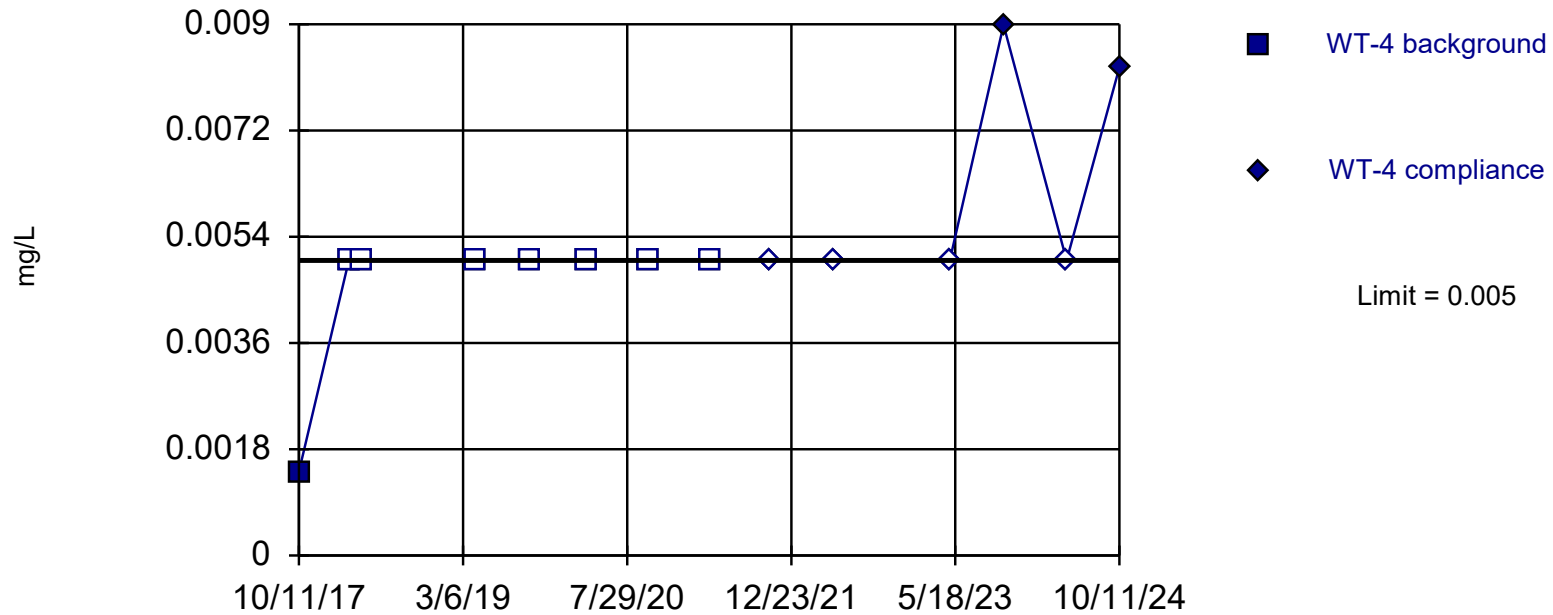
Constituent: Lead Analysis Run 1/22/2025 2:33 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2). Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Vanadium Analysis Run 1/22/2025 2:33 PM View: 01_GU_Inorganics

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Prediction Limit

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/22/2025, 2:34 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	WT-4	0.001	10/11/2024	0.001ND	No	9	n/a	88.89	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	WT-4	0.00266	10/11/2024	0.00208	No	9	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Barium (mg/L)	WT-4	0.1258	10/11/2024	0.132	Yes	9	n/a	0	None	ln(x)	0.00008959	Param Intra 1 of 2
Beryllium (mg/L)	WT-4	0.00033	10/11/2024	0.00033ND	No	9	n/a	100	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	WT-4	0.00022	10/11/2024	0.000203	No	9	n/a	66.67	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Chromium (mg/L)	WT-4	0.005	10/11/2024	0.00469J	No	8	n/a	100	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	WT-4	0.003575	10/11/2024	0.00511	Yes	9	n/a	11.11	None	No	0.00008959	Param Intra 1 of 2
Copper (mg/L)	WT-4	0.005	10/11/2024	0.00458J	No	9	n/a	88.89	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Lead (mg/L)	WT-4	0.000645	10/11/2024	0.00269	Yes	8	n/a	62.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Nickel (mg/L)	WT-4	0.04288	10/11/2024	0.0336	No	9	n/a	11.11	None	No	0.00008959	Param Intra 1 of 2
Selenium (mg/L)	WT-4	0.00148	10/11/2024	0.0014ND	No	8	n/a	87.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Silver (mg/L)	WT-4	0.0005	10/11/2024	0.0005ND	No	9	n/a	100	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Thallium (mg/L)	WT-4	0.00057	10/11/2024	0.00057ND	No	9	n/a	100	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	WT-4	0.005	10/11/2024	0.00827	Yes	8	n/a	87.5	n/a	n/a	0.02144	NP Intra (NDs) 1 of 2
Zinc (mg/L)	WT-4	0.02	10/11/2024	0.0172J	No	9	n/a	77.78	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2

Groundwater Underdrain –
DQR

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VOC Screening

Analysis Run 1/21/2025 5:07 PM View: 02_GU_Organics
Iowa City Landfill Data: Iowa City Sanitary Landfill

UG 'Double Quantification Rule' results for 47 constituents in 6 wells on 8 dates:

-none-

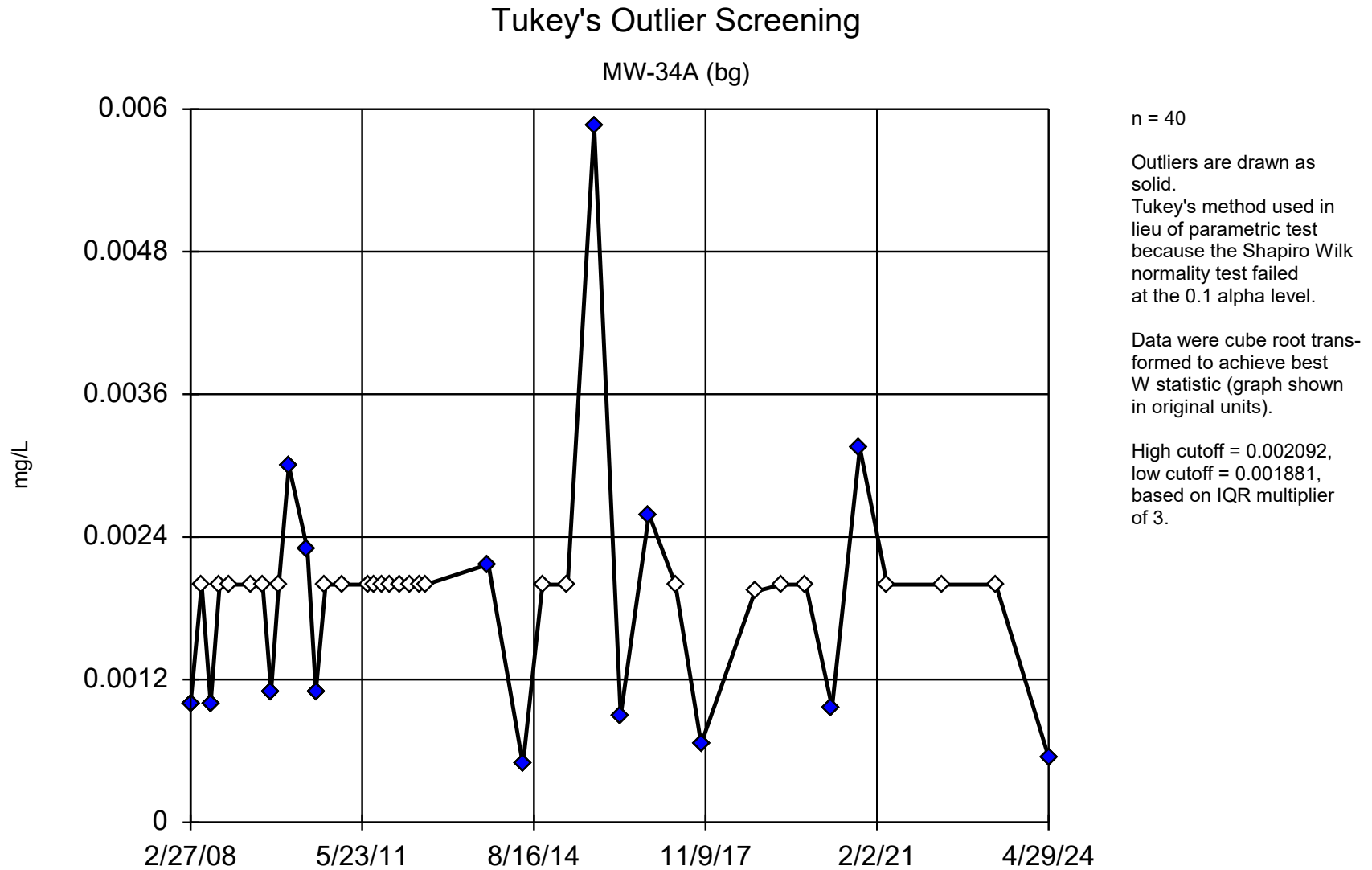
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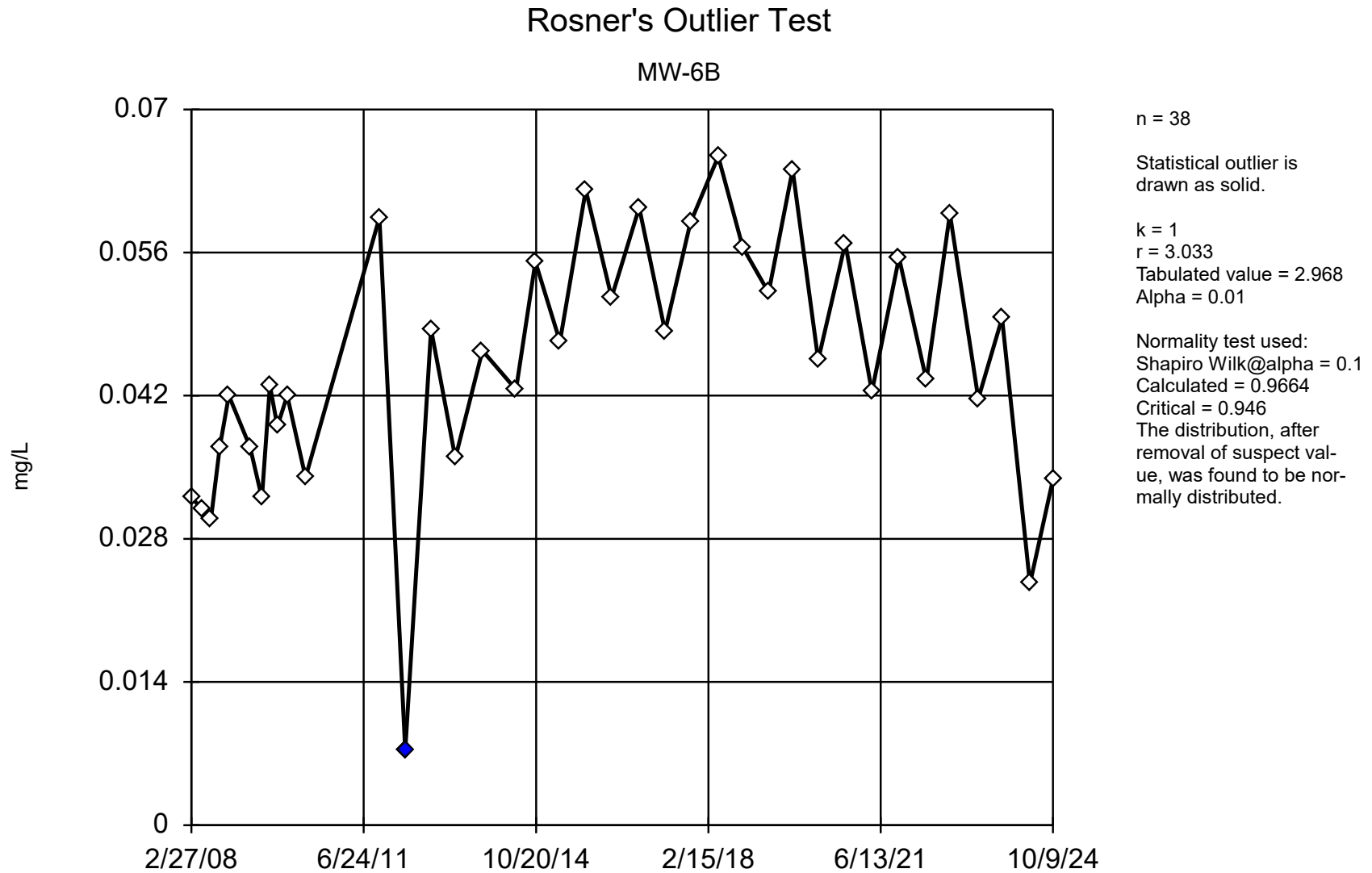
Statistical Analysis:
Monitoring Wells

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Groundwater Monitoring Wells –
Outliers Analysis

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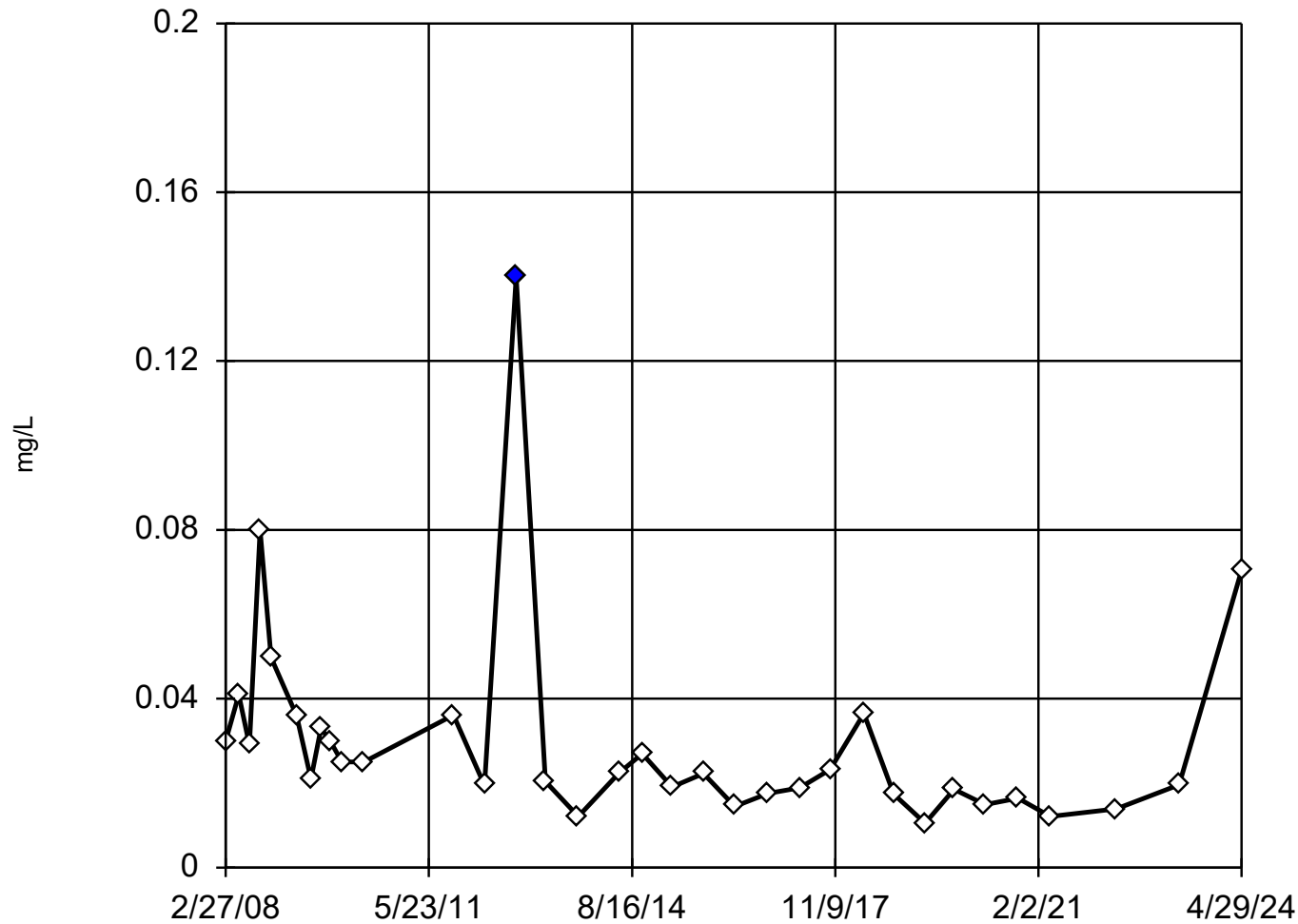


Constituent: Arsenic Analysis Run 1/21/2025 6:22 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

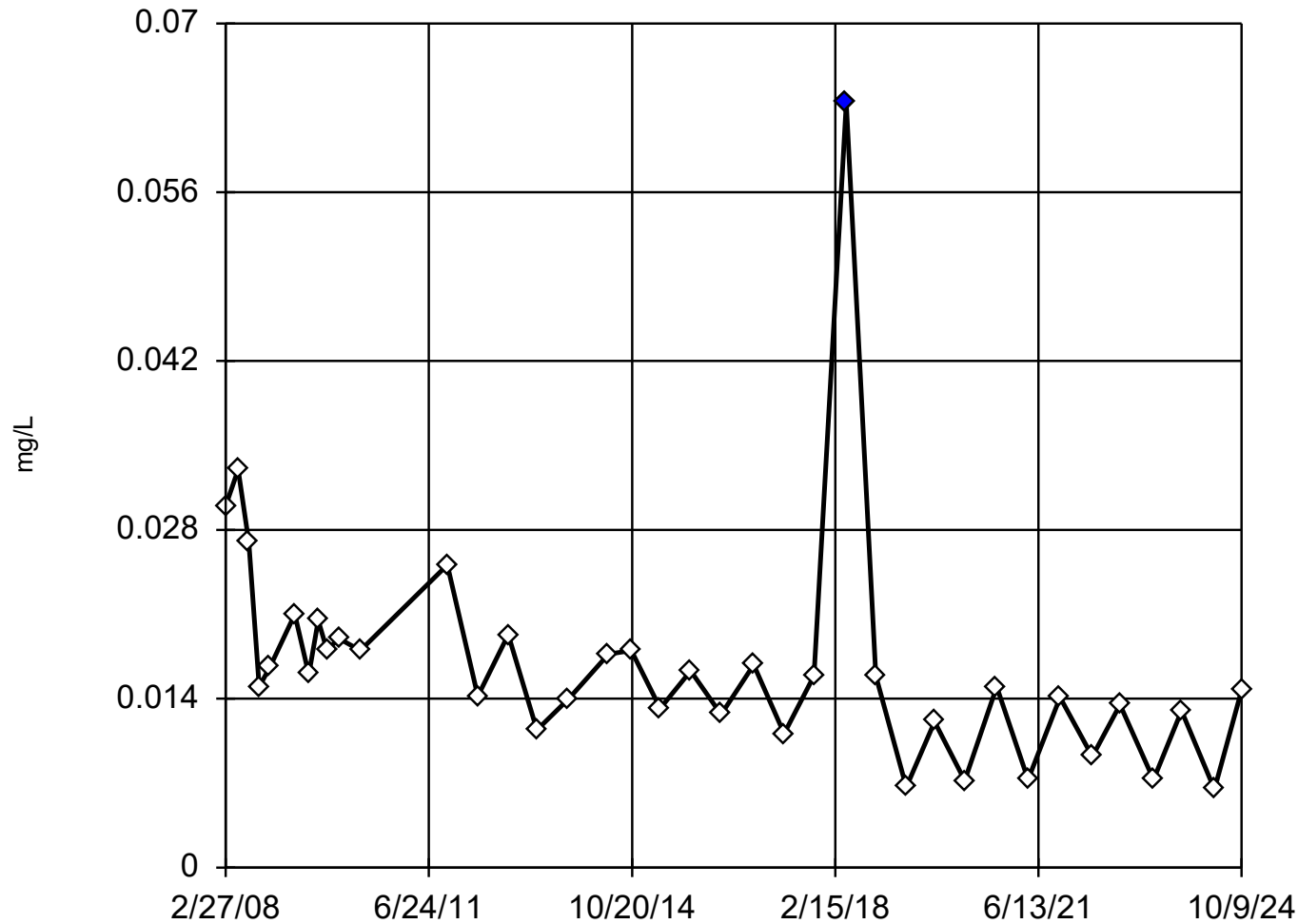
Rosner's Outlier Test

MW-8B



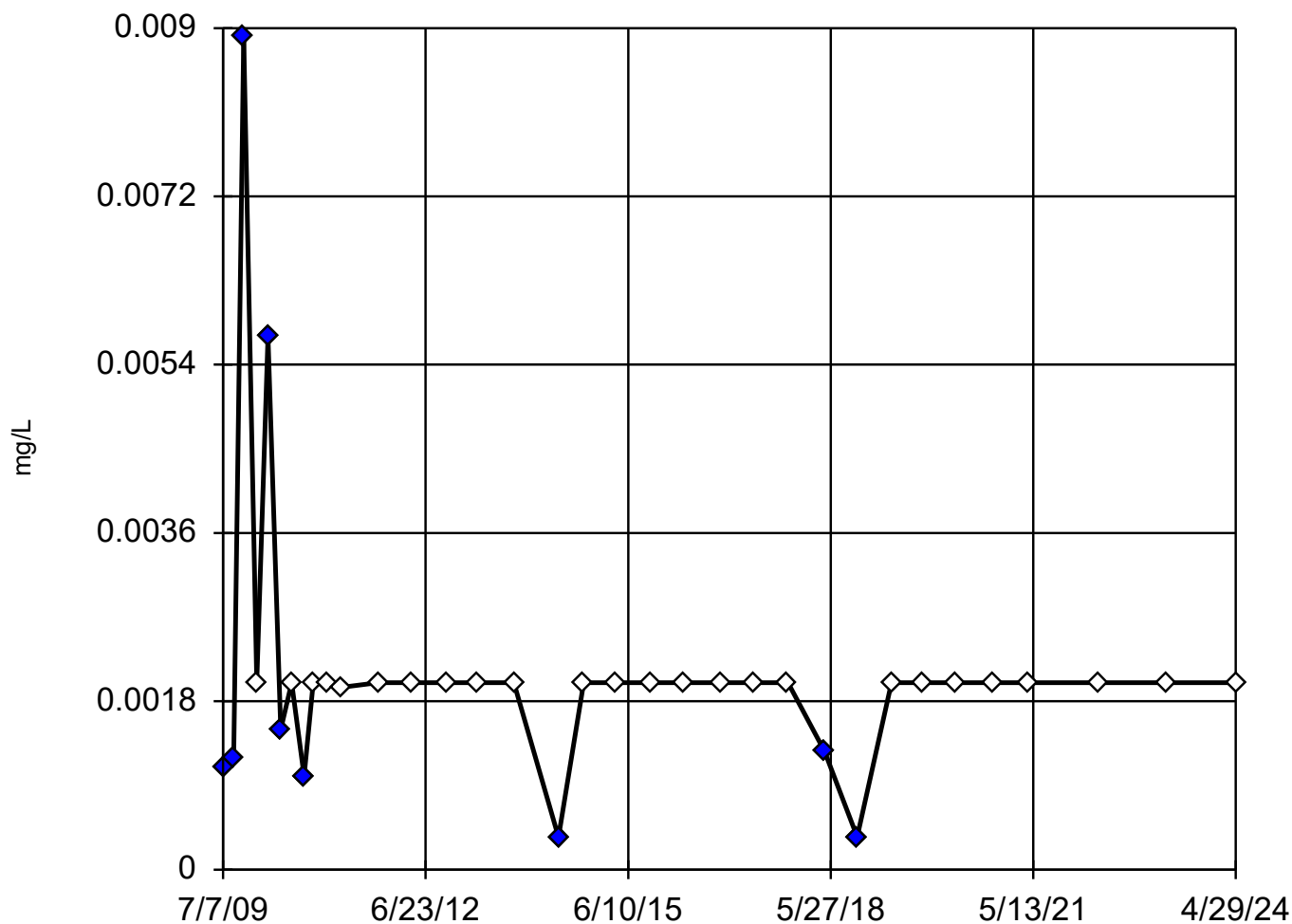
Rosner's Outlier Test

MW-15A



Tukey's Outlier Screening

MW-203A



n = 34

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

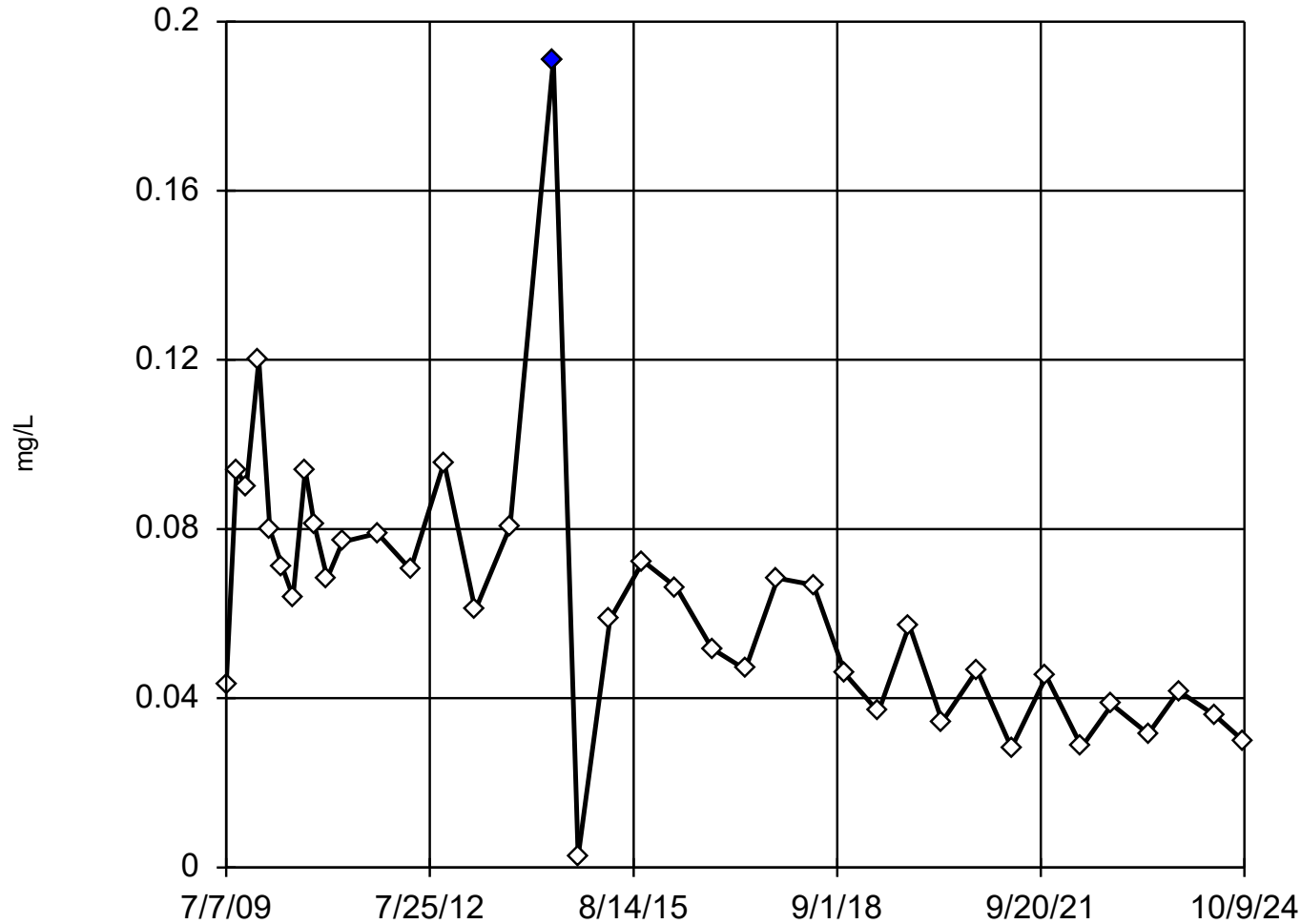
High cutoff = 0.002077,
low cutoff = 0.001901,
based on IQR multiplier
of 3.

Constituent: Arsenic Analysis Run 1/21/2025 6:22 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

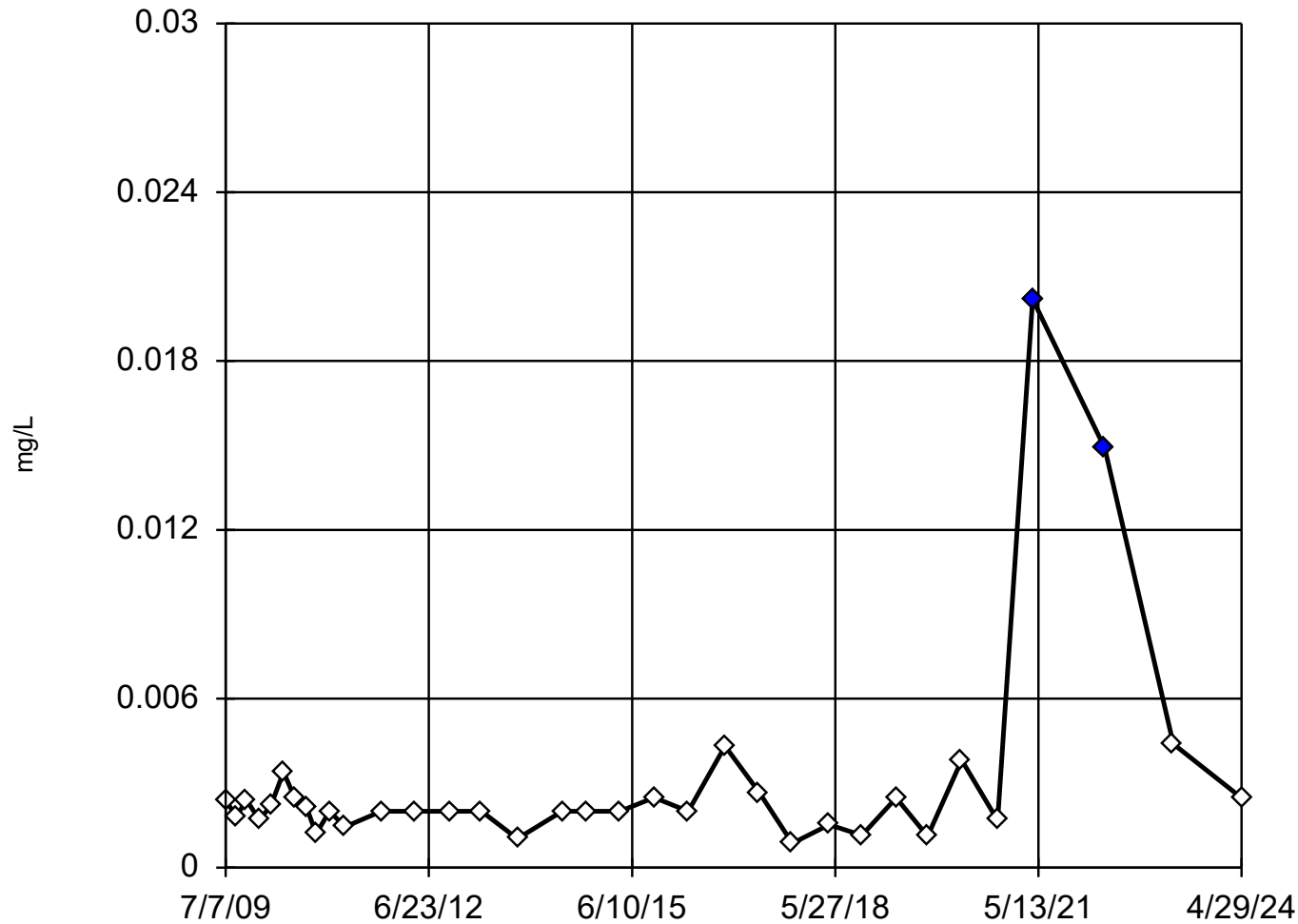
Rosner's Outlier Test

MW-209B



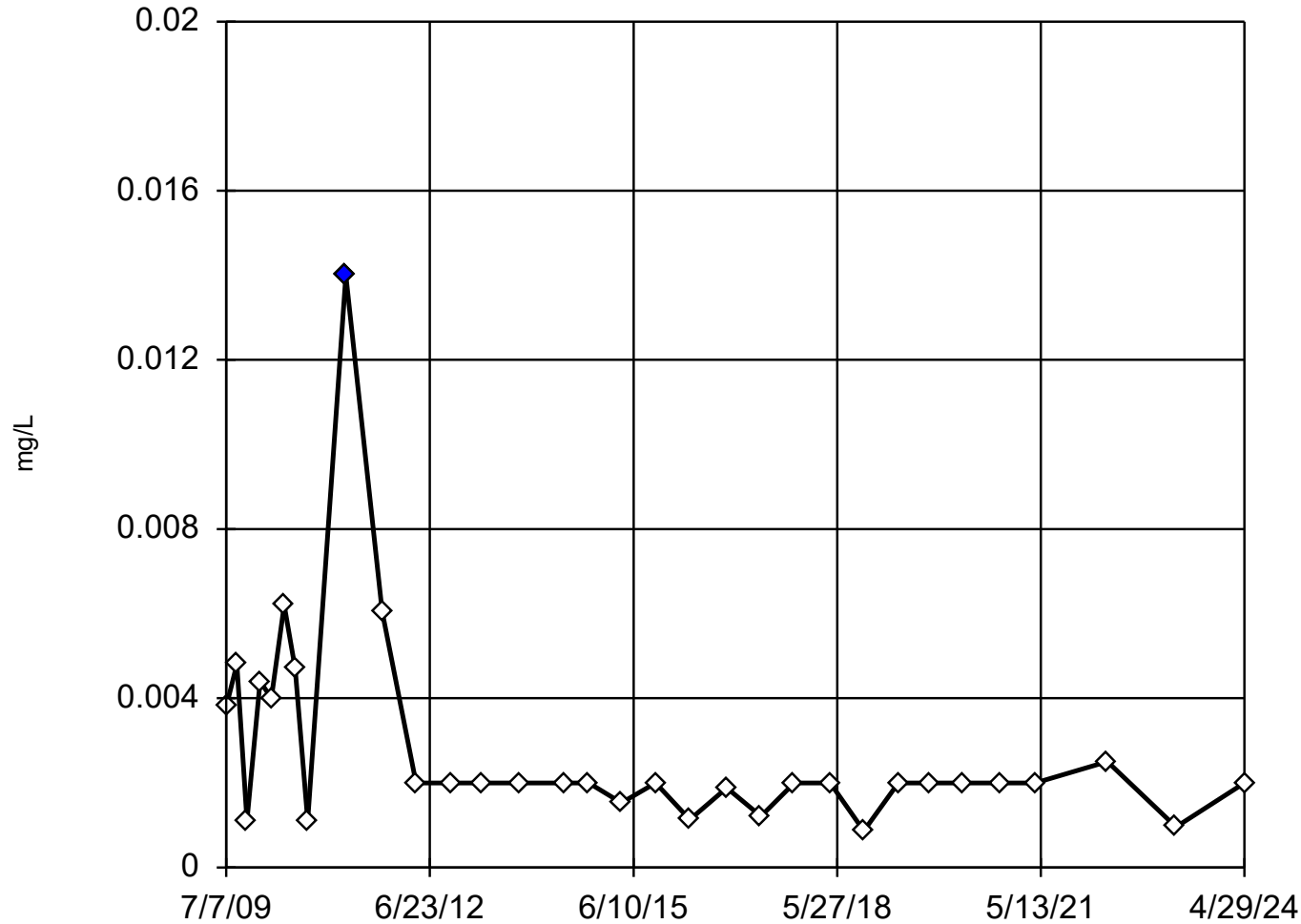
Rosner's Outlier Test

MW-210B



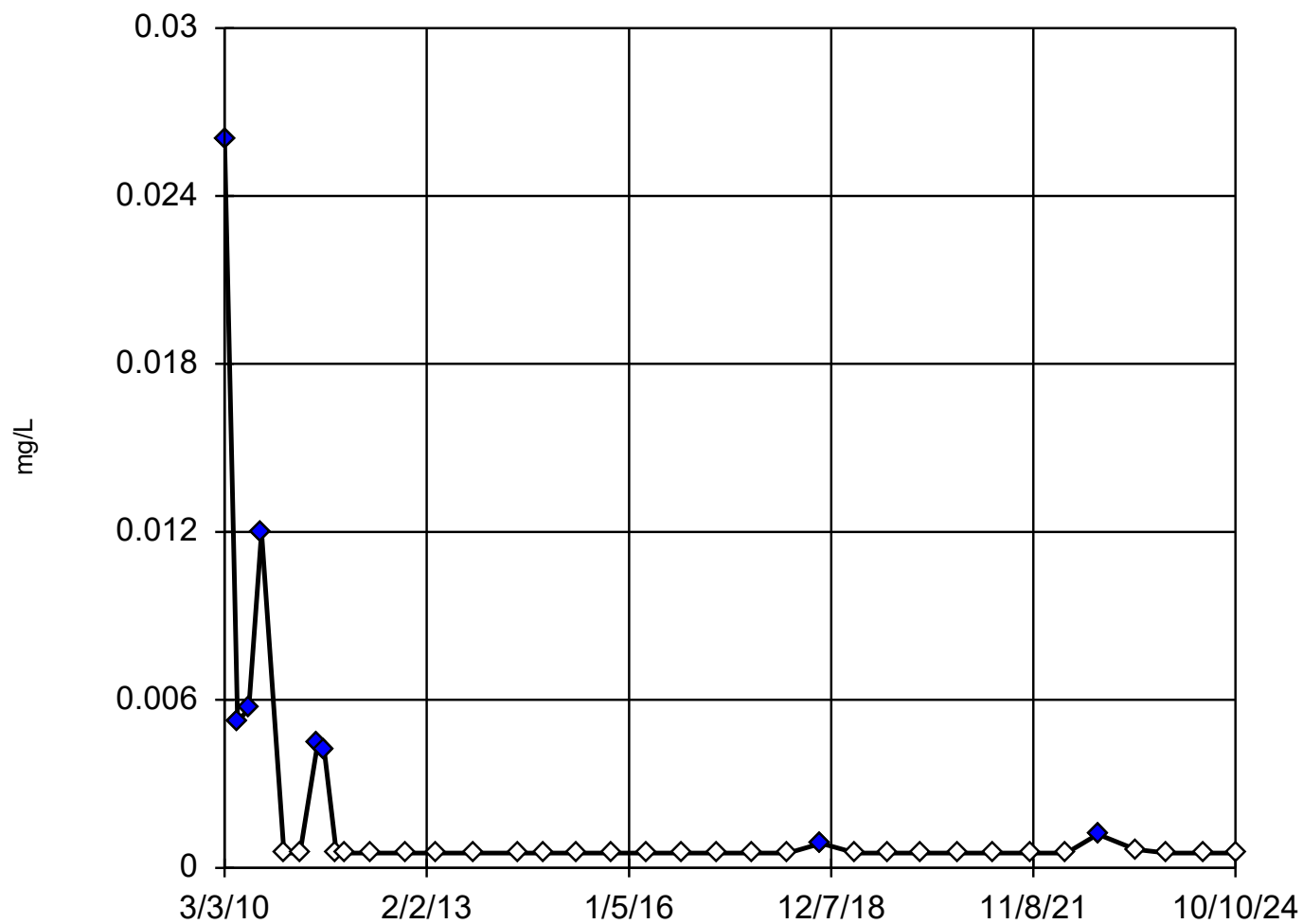
Tukey's Outlier Screening

MW-214A



Tukey's Outlier Screening

MW-200A



n = 36

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

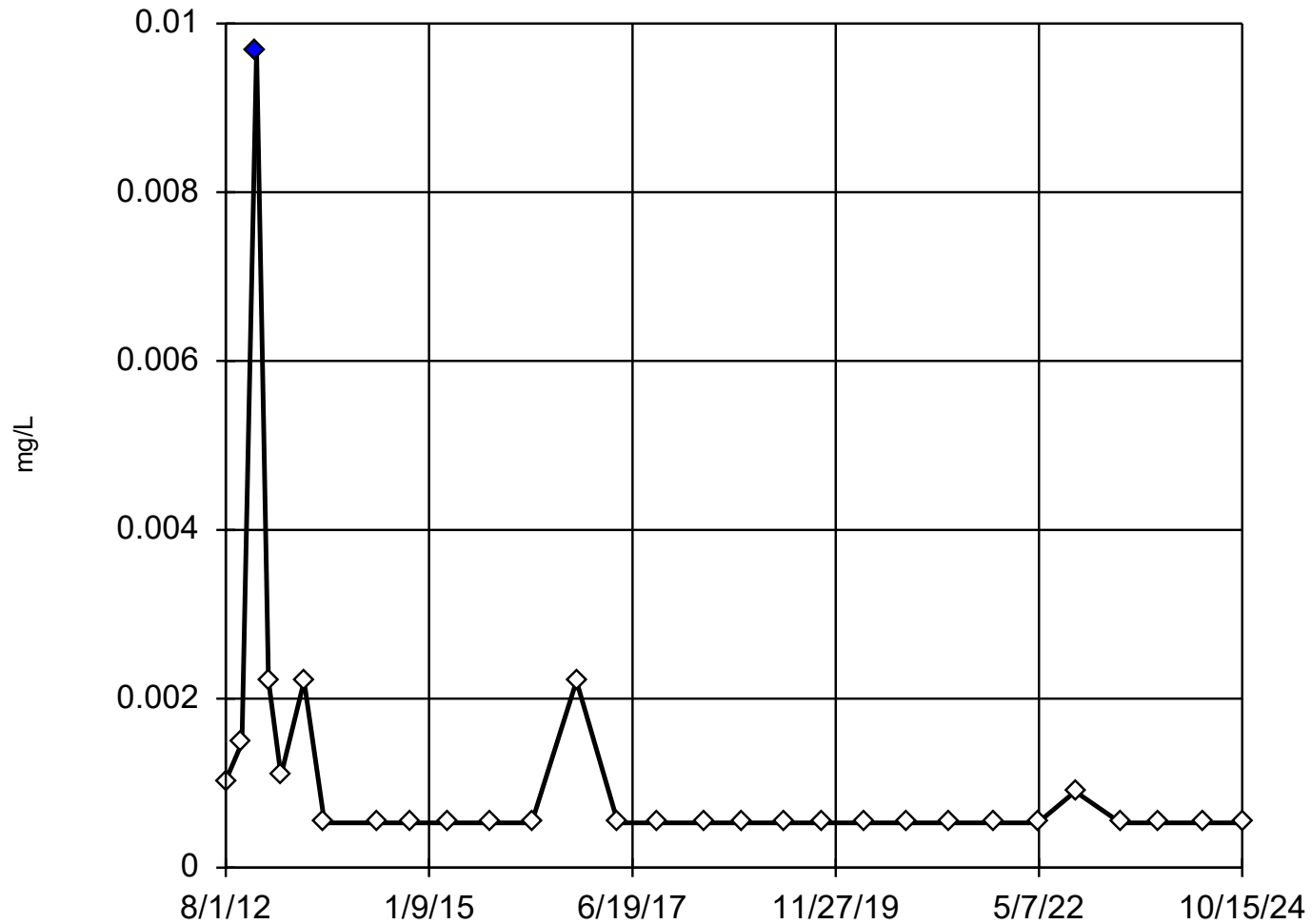
High cutoff = 0.0008219,
low cutoff = 0.0003814,
based on IQR multiplier
of 3.

Constituent: Arsenic Analysis Run 1/21/2025 6:22 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-220A



n = 29

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

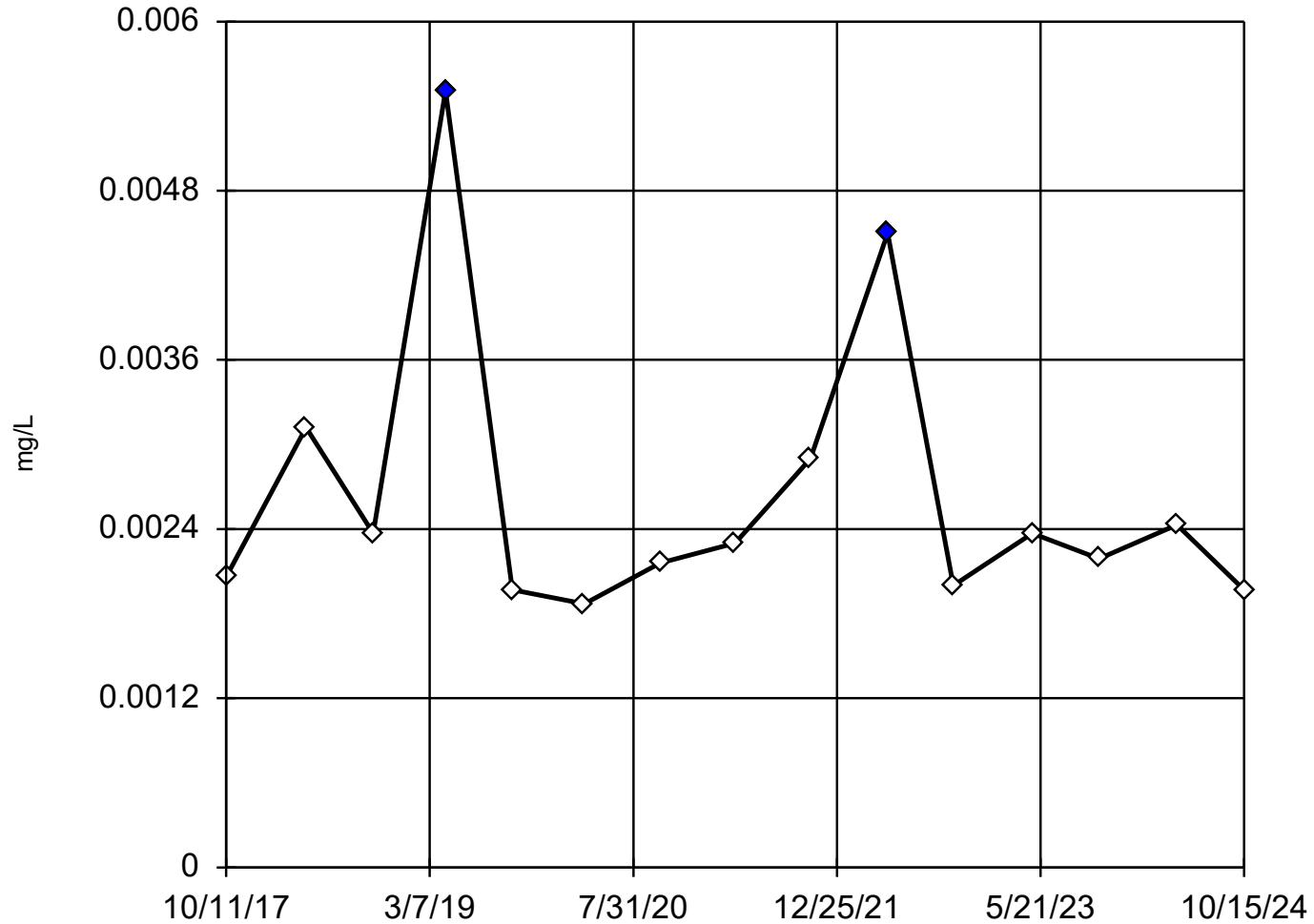
High cutoff = 0.005772,
low cutoff = 0.00008841,
based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 1/21/2025 6:22 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Dixon's Outlier Test

MW-7C



n = 15

Statistical outliers are drawn as solid.
Testing for 2 high outliers.
Mean = 0.002648.
Std. Dev. = 0.001034.
0.0045: c = 0.5319
tabl = 0.525.
Alpha = 0.05.

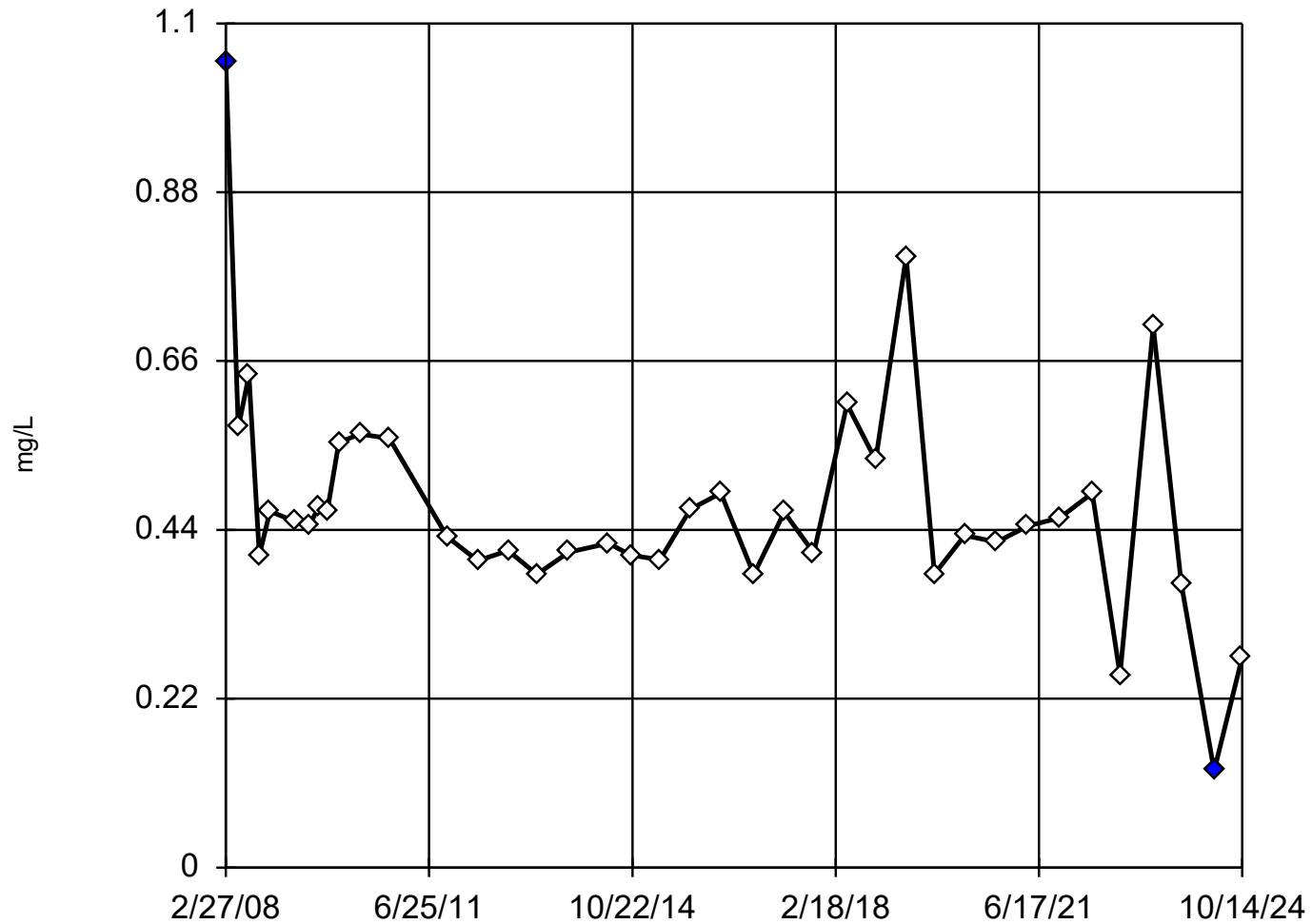
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9091
Critical = 0.889 (after natural log transformation)
The distribution, after removal of suspect values, was found to be log-normal.

Constituent: Arsenic Analysis Run 1/21/2025 6:22 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-1A



n = 39

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were square root transformed to achieve best W statistic (graph shown in original units).

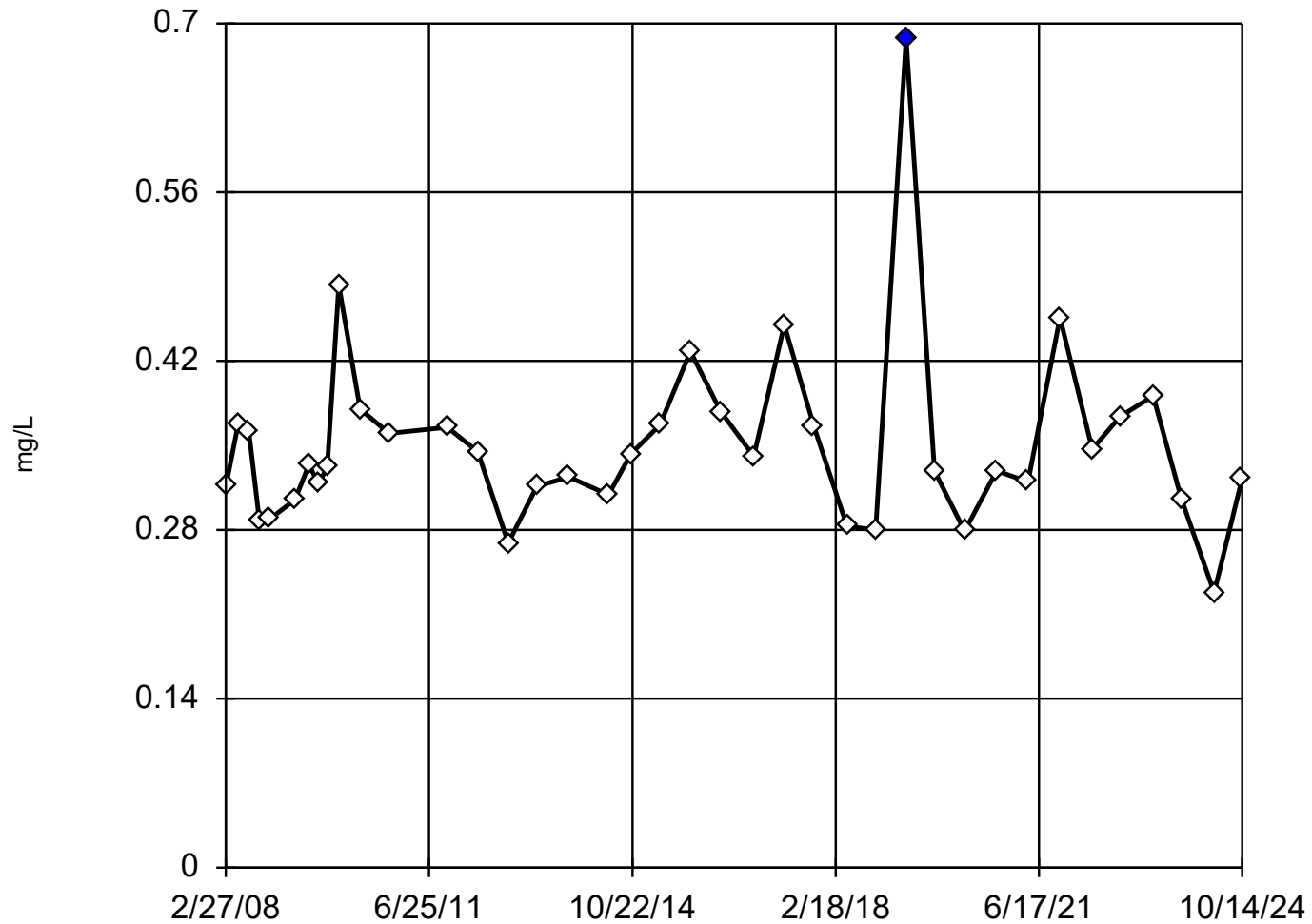
High cutoff = 1.002, low cutoff = 0.1338, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 1/21/2025 6:22 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Rosner's Outlier Test

MW-2A-97



n = 39

Statistical outlier is
drawn as solid.

k = 1

r = 4.422

Tabulated value = 2.974

Alpha = 0.01

Normality test used:

Shapiro Wilk@alpha = 0.1

Calculated = 0.9575

Critical = 0.947

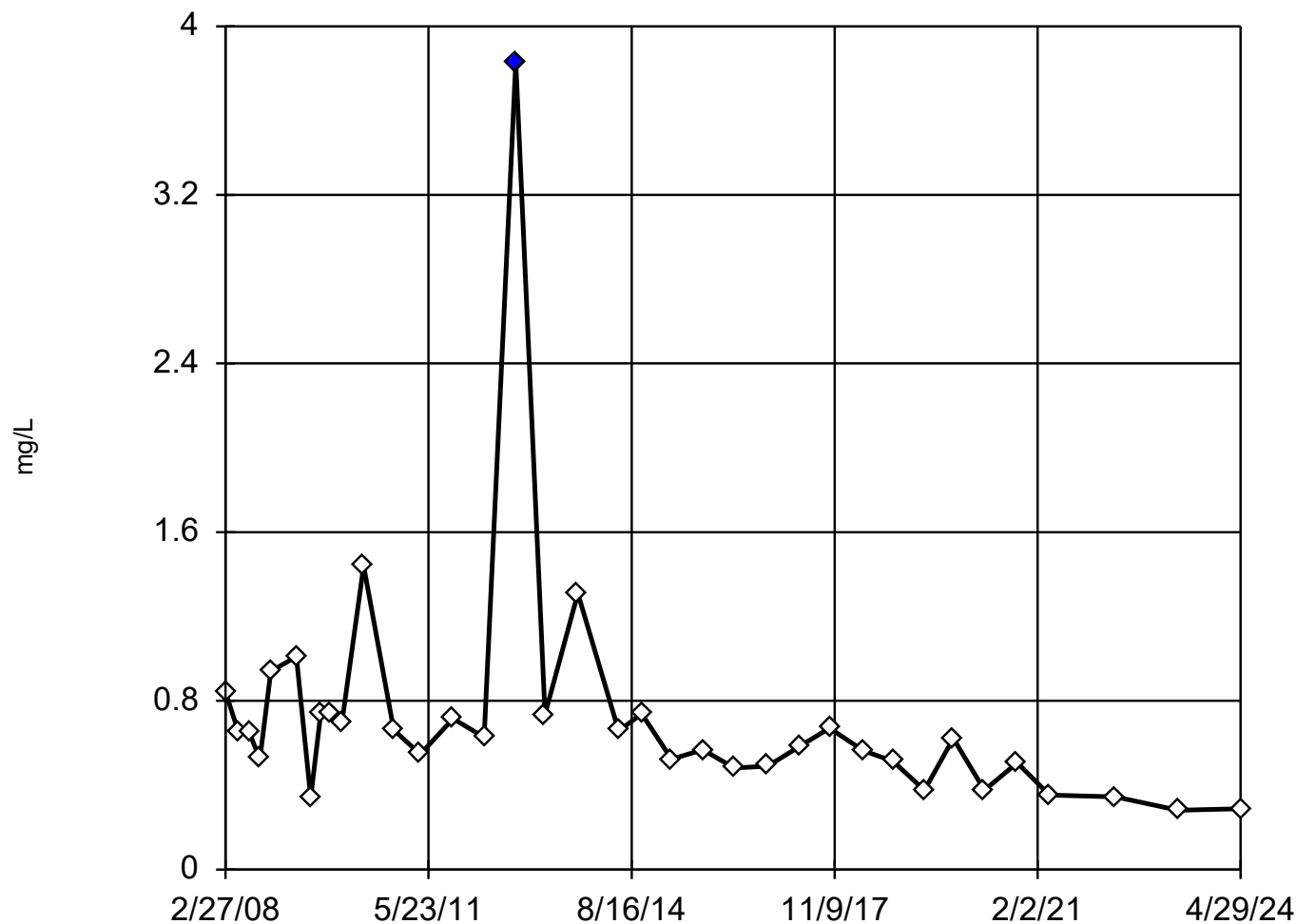
The distribution, after
removal of suspect val-
ue, was found to be nor-
mally distributed.

Constituent: Barium Analysis Run 1/21/2025 6:23 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

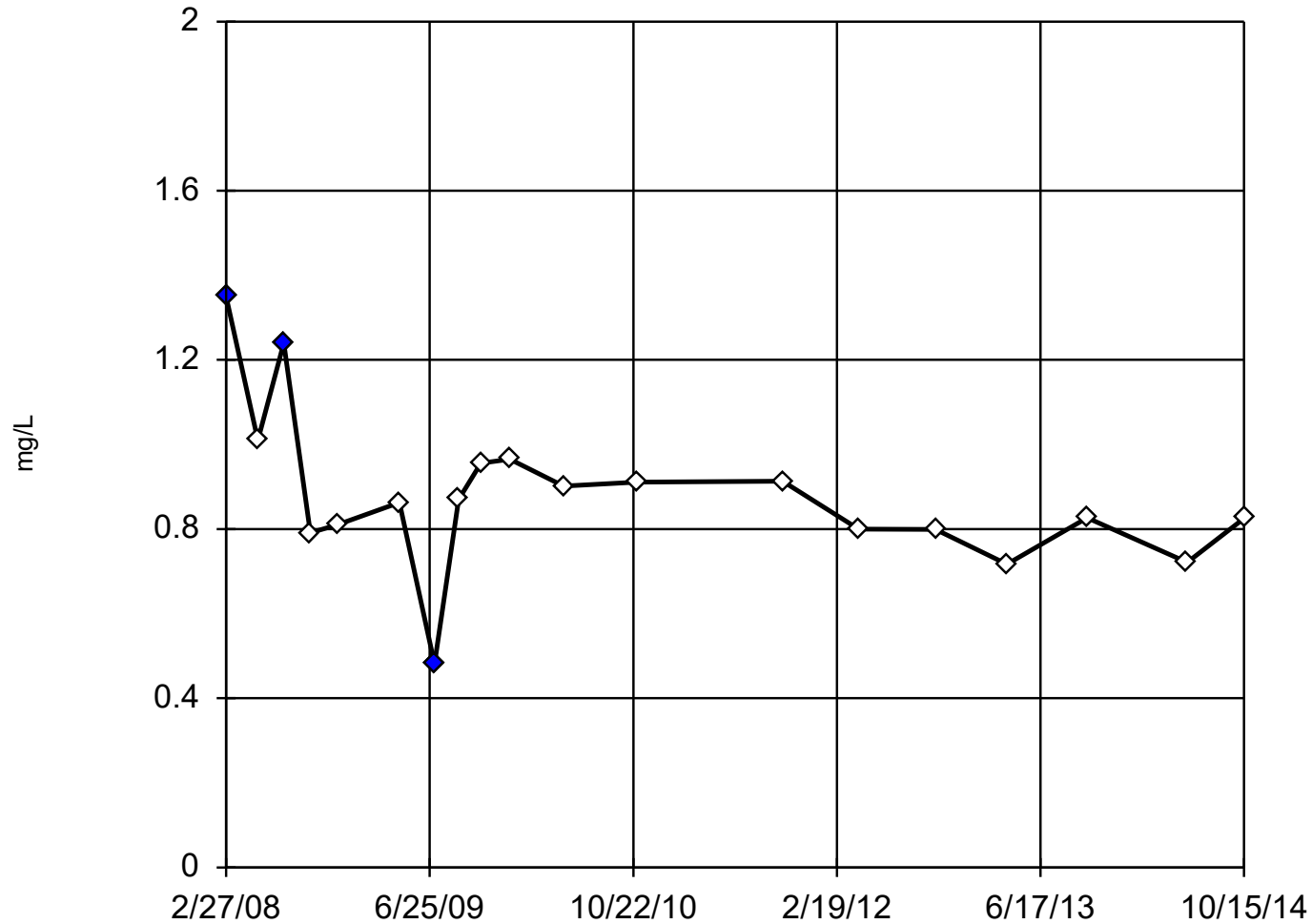
Rosner's Outlier Test

MW-8B



Dixon's Outlier Test

MW-15A



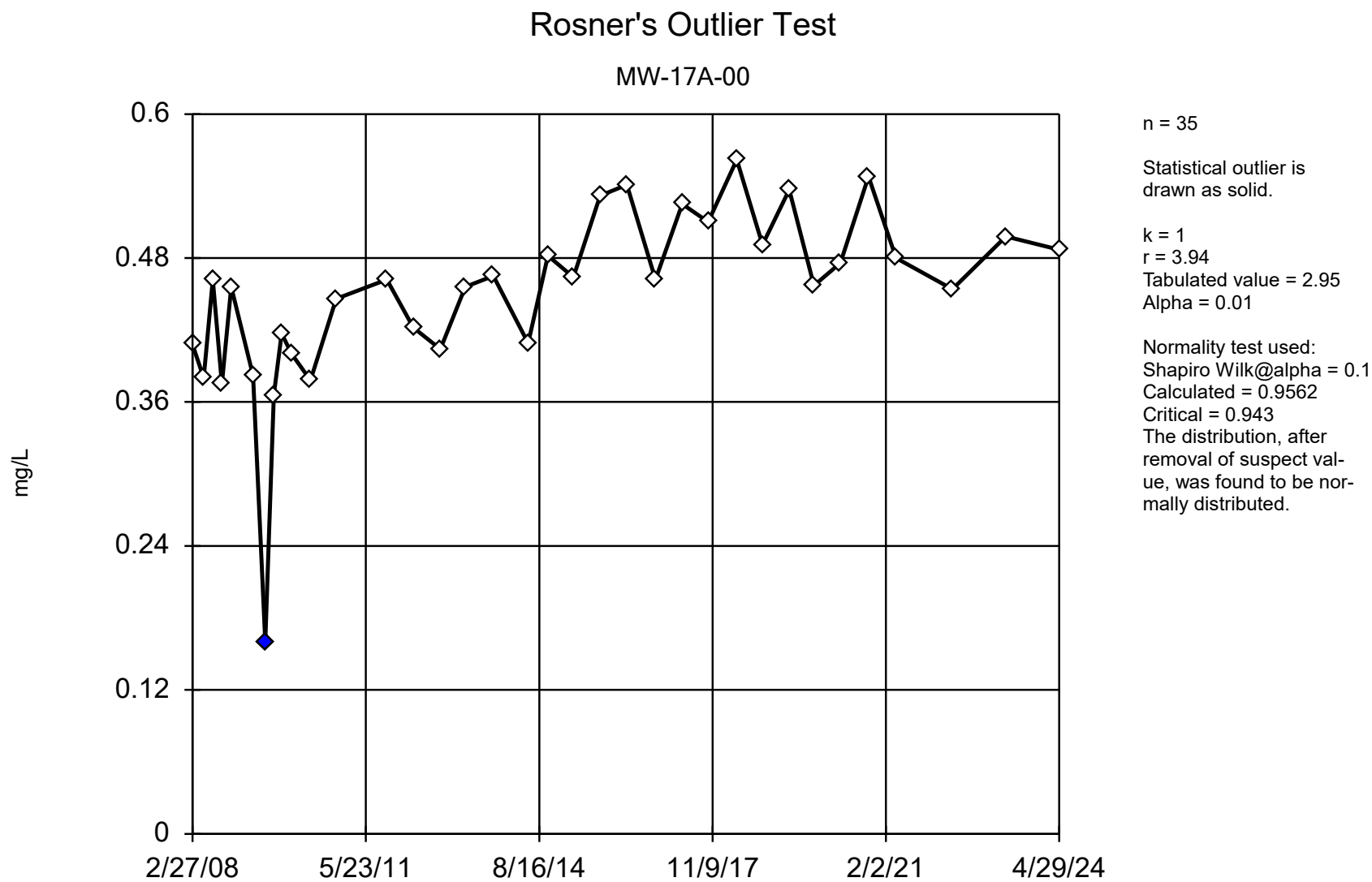
n = 19

Statistical outliers are drawn as solid.
Testing for 2 high and 1 low outliers.
Mean = 0.8816.
Std. Dev. = 0.1865.
1.24: c = 0.5299
tabl = 0.462.
0.481: c = 0.4959
tabl = 0.462.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9682
Critical = 0.906
The distribution, after removal of suspect values, was found to be normally distributed.

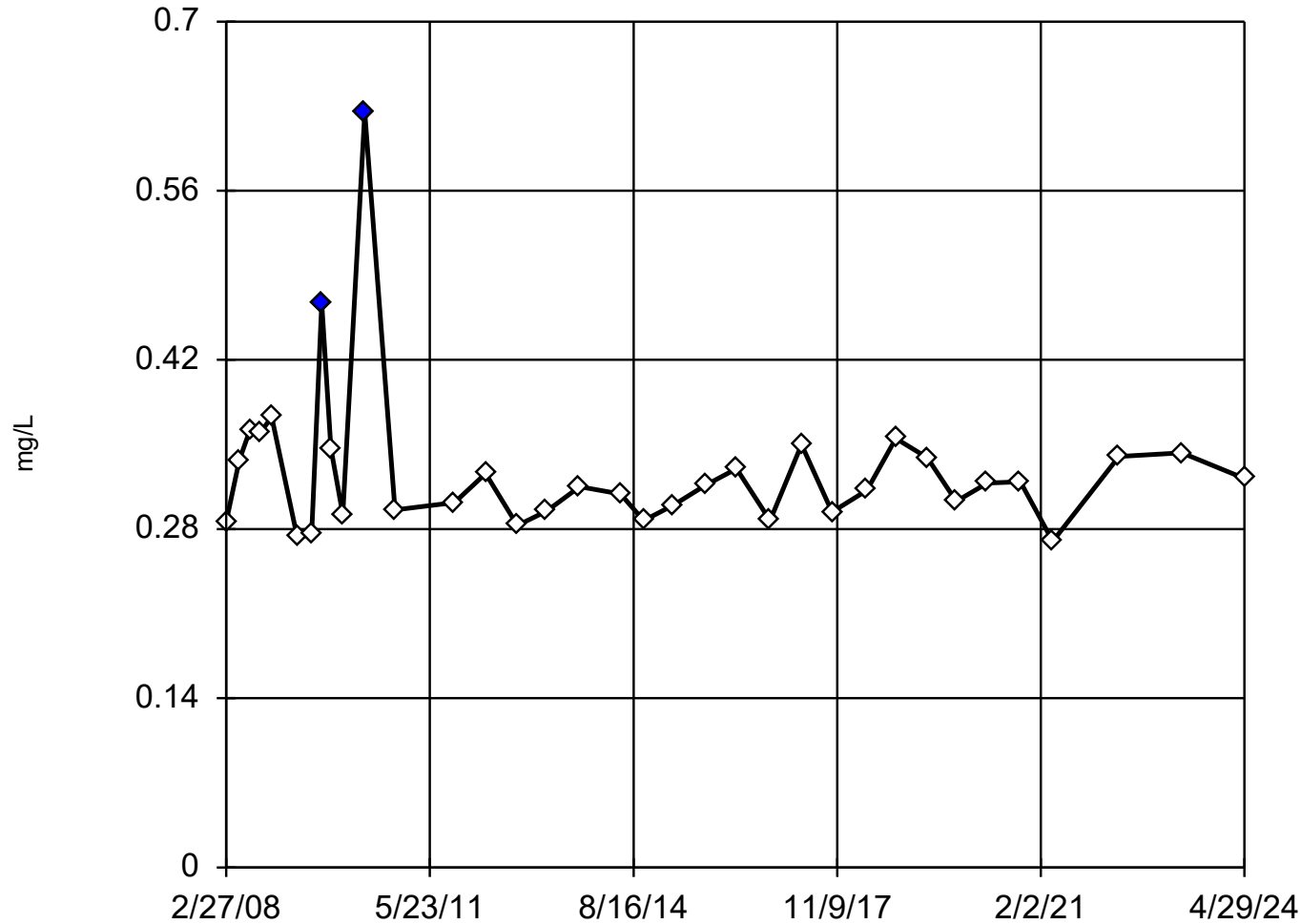
Constituent: Barium Analysis Run 1/21/2025 6:23 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill



Rosner's Outlier Test

MW-23A



n = 35

Statistical outliers are
drawn as solid.

k = 2
r = 3.867
Tabulated value = 3.435
Alpha = 0.01

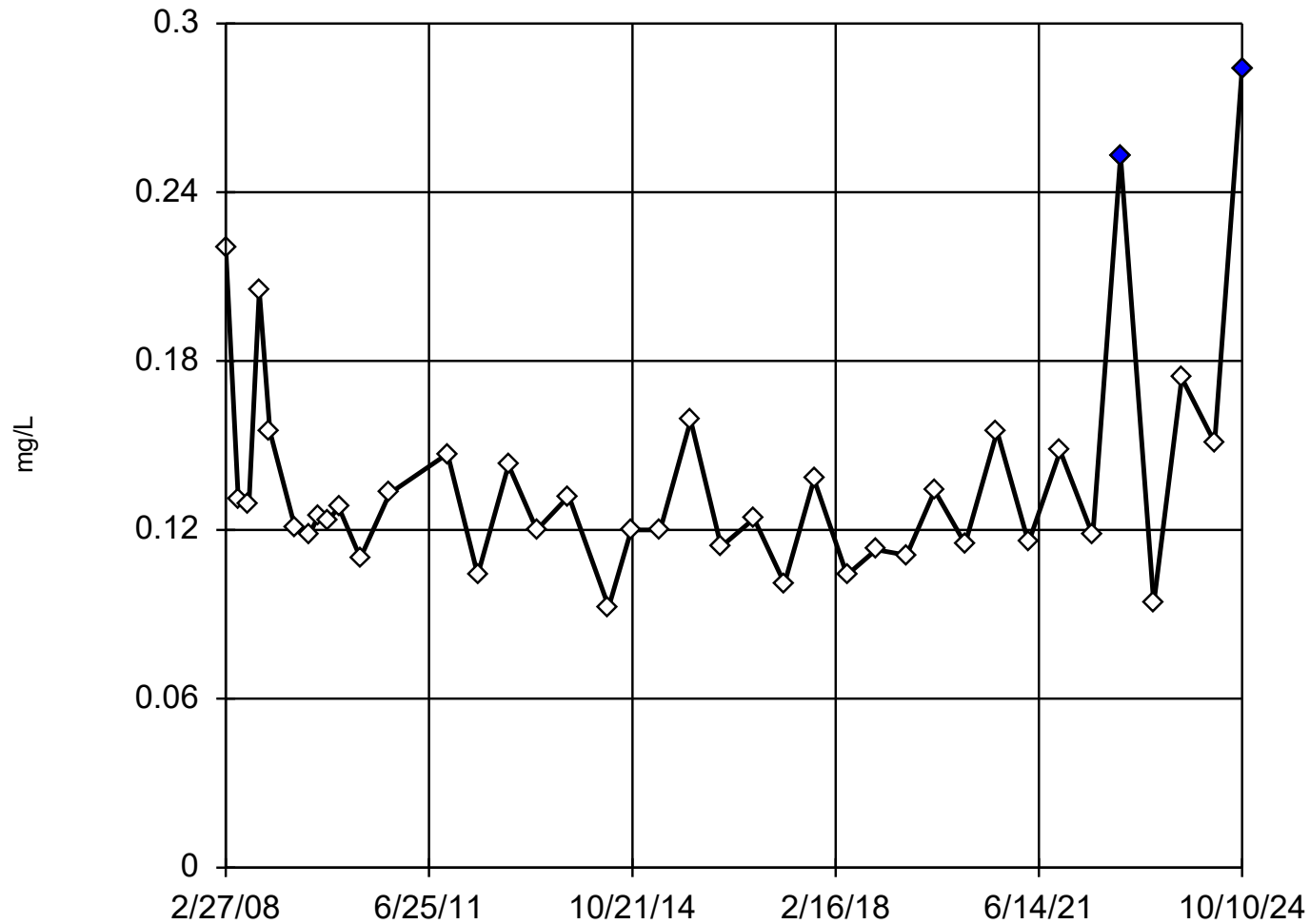
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9621
Critical = 0.942
The distribution, after
removal of suspect val-
ues, was found to be nor-
mally distributed.

Constituent: Barium Analysis Run 1/21/2025 6:23 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Rosner's Outlier Test

MW-29A



n = 39

Statistical outliers are drawn as solid.

k = 4

r = 3.043

Tabulated value = 2.862

Alpha = 0.01

Normality test used:

Shapiro Wilk@alpha = 0.1

Calculated = 0.947

Critical = 0.946 (after natural log transformation)

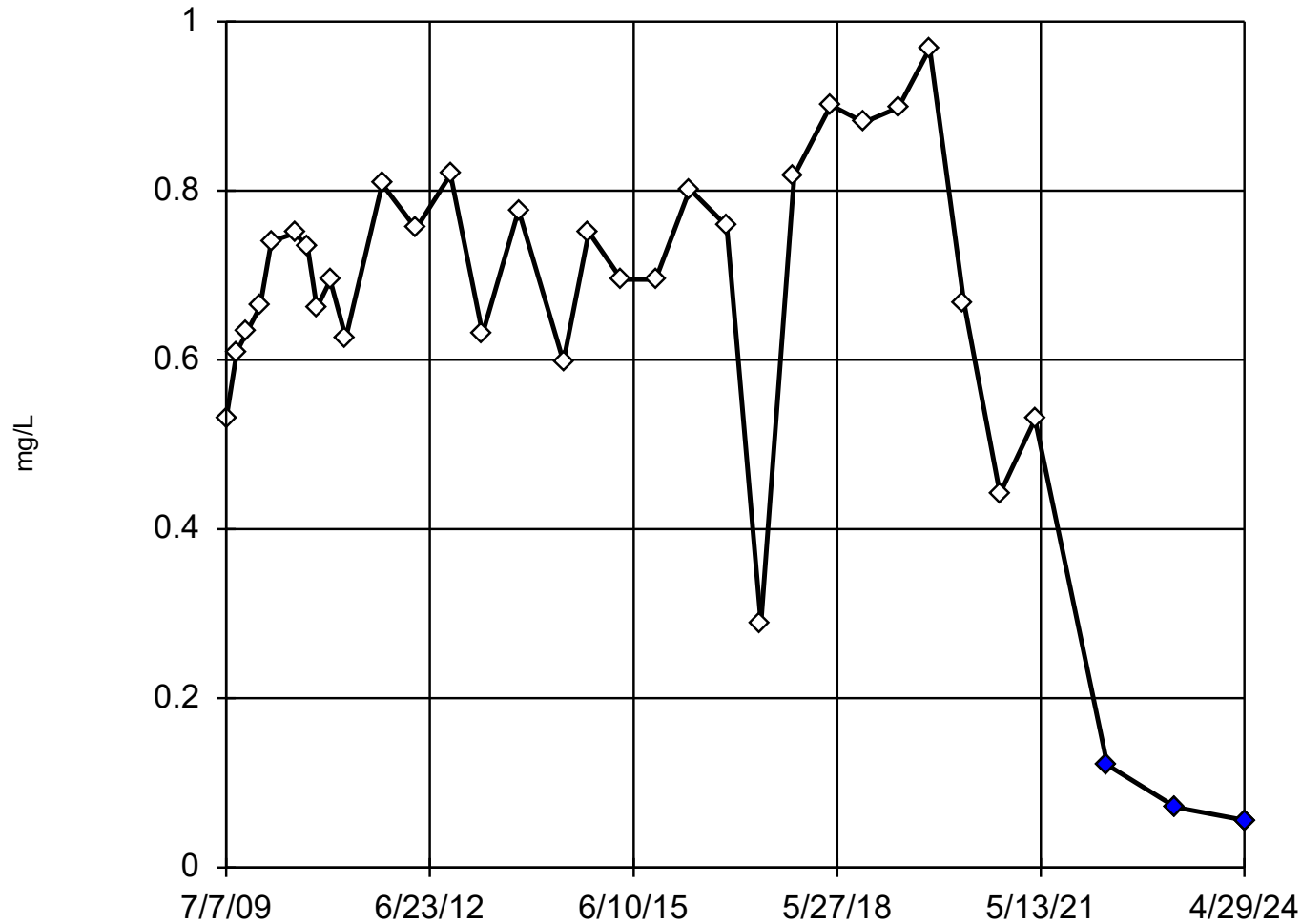
The distribution, after removal of suspect values, was found to be log-normal.

Constituent: Barium Analysis Run 1/21/2025 6:23 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Rosner's Outlier Test

MW-208B



n = 33

Statistical outliers are drawn as solid.

k = 4

r = 3.233

Tabulated value = 3.044

Alpha = 0.01

Normality test used:

Shapiro Wilk@alpha = 0.1

Calculated = 0.9629

Critical = 0.939

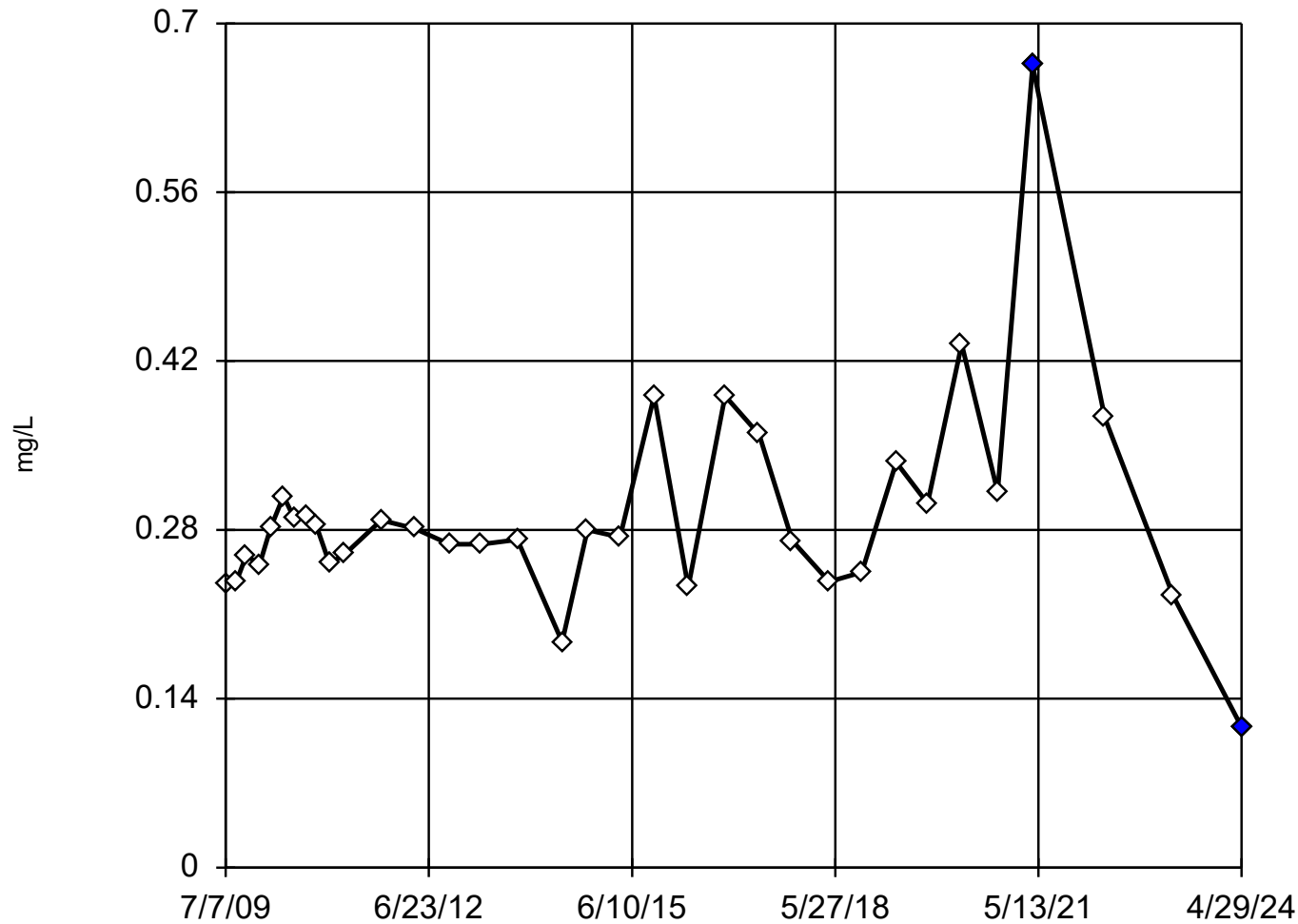
The distribution, after removal of suspect values, was found to be normally distributed.

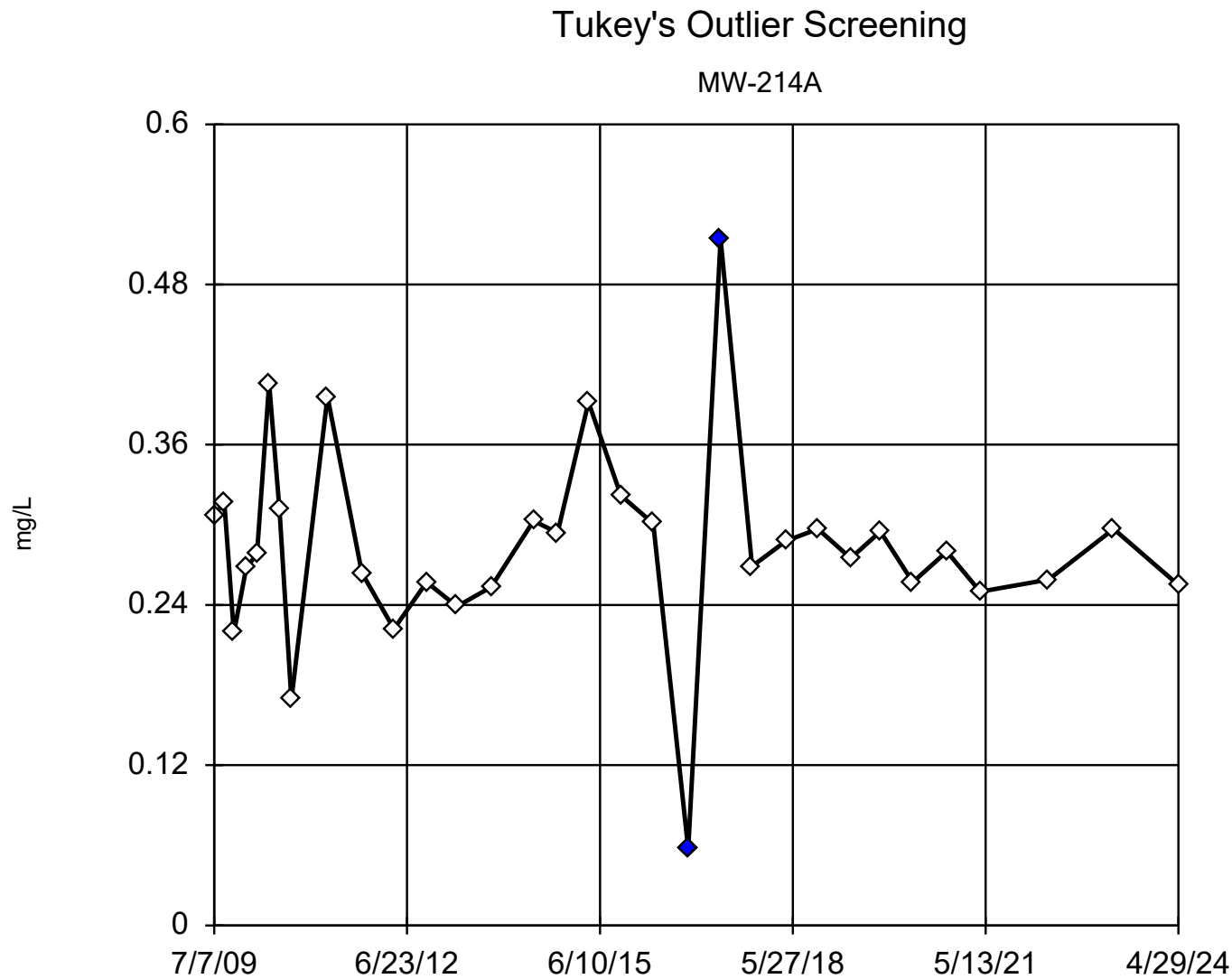
Constituent: Barium Analysis Run 1/21/2025 6:23 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Rosner's Outlier Test

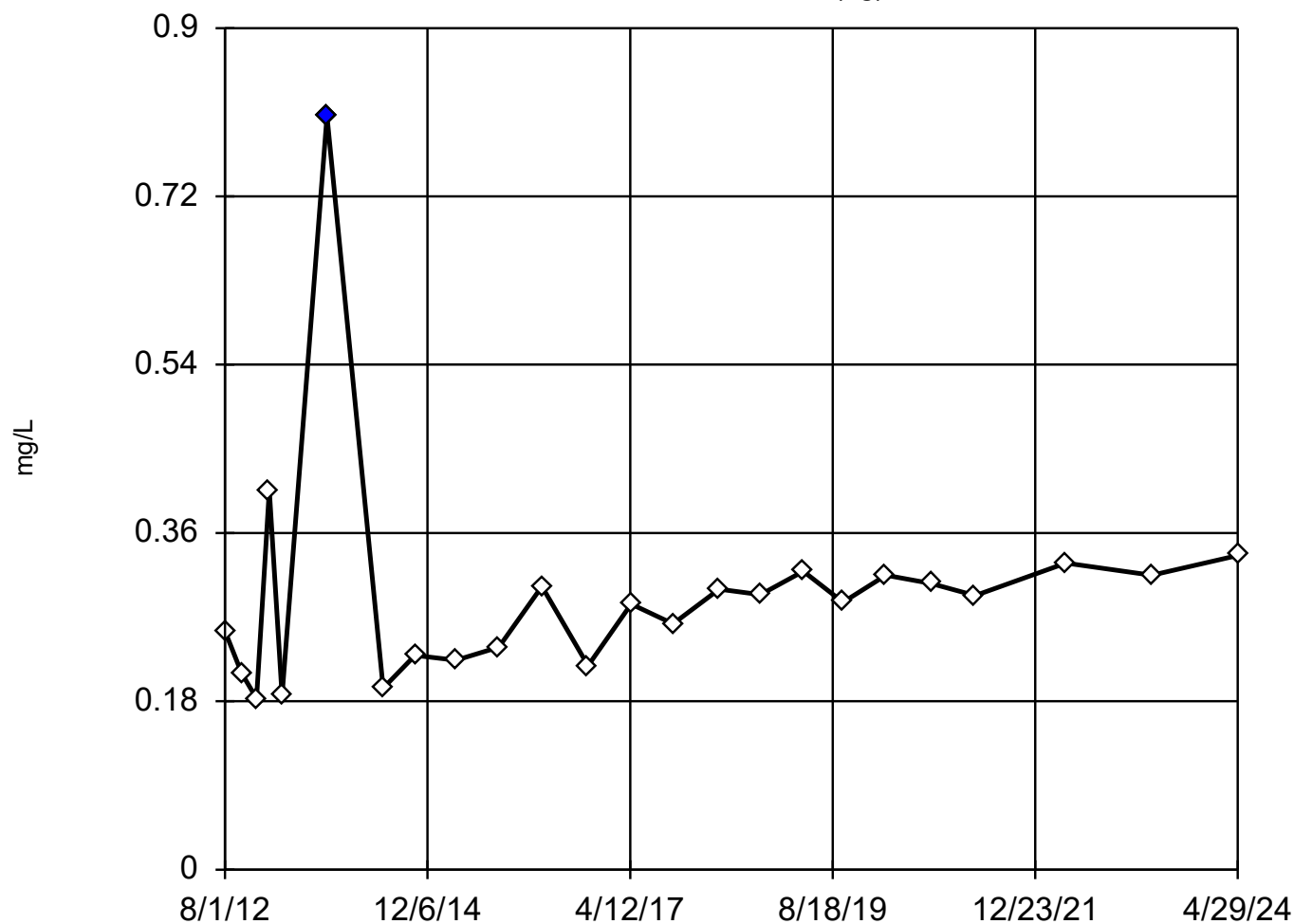
MW-210B





Rosner's Outlier Test

MW-38A (bg)



n = 24

Statistical outlier is drawn as solid.
1 value manually flagged as an outlier.

k = 1
r = 4.193
Tabulated value = 2.824
Alpha = 0.01

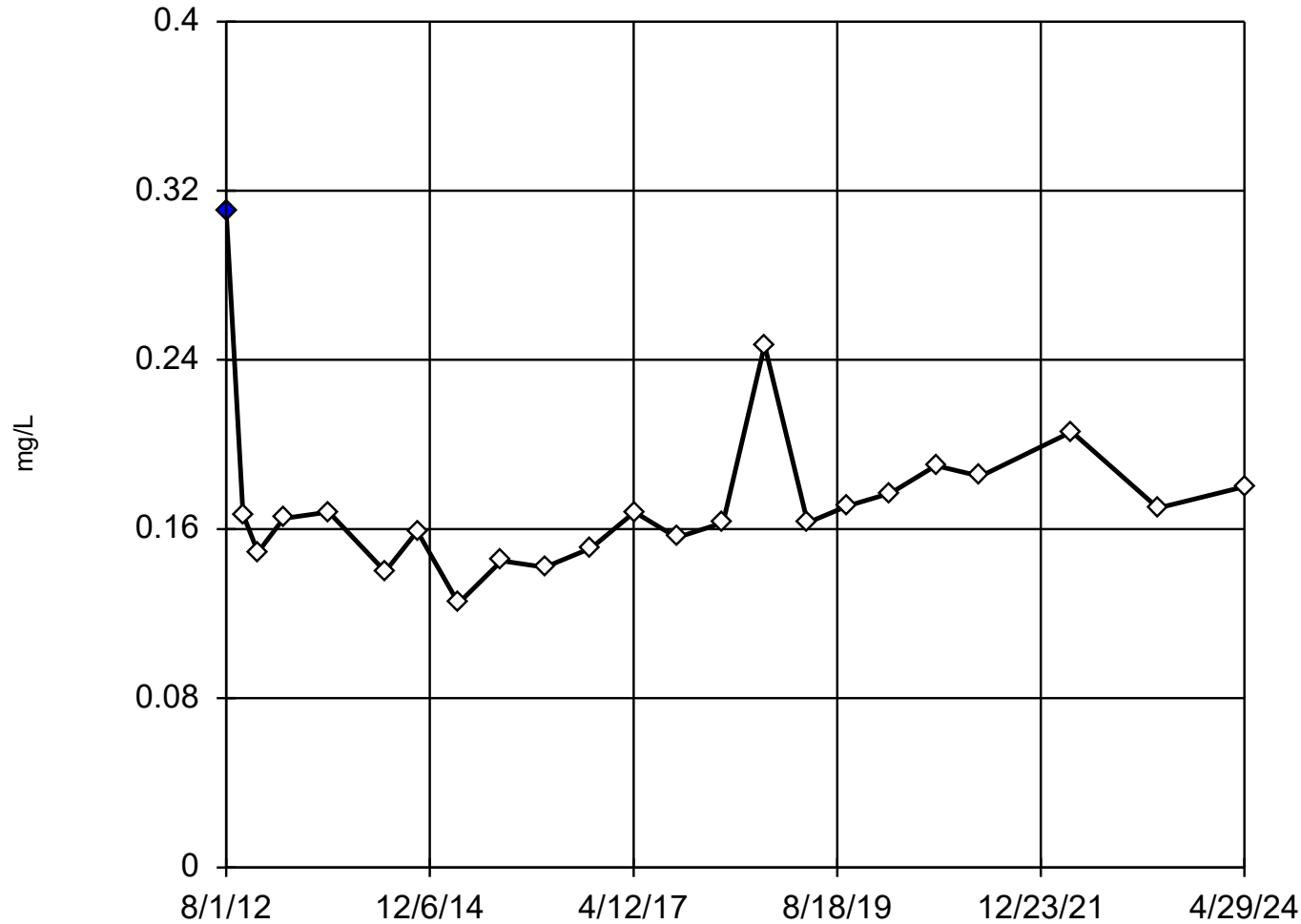
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9546
Critical = 0.928
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Barium Analysis Run 1/21/2025 6:23 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Rosner's Outlier Test

MW-39B (bg)



n = 23

Statistical outlier is drawn as solid.
2 values manually flagged as outliers.

k = 2
r = 3.136
Tabulated value = 2.808
Alpha = 0.01

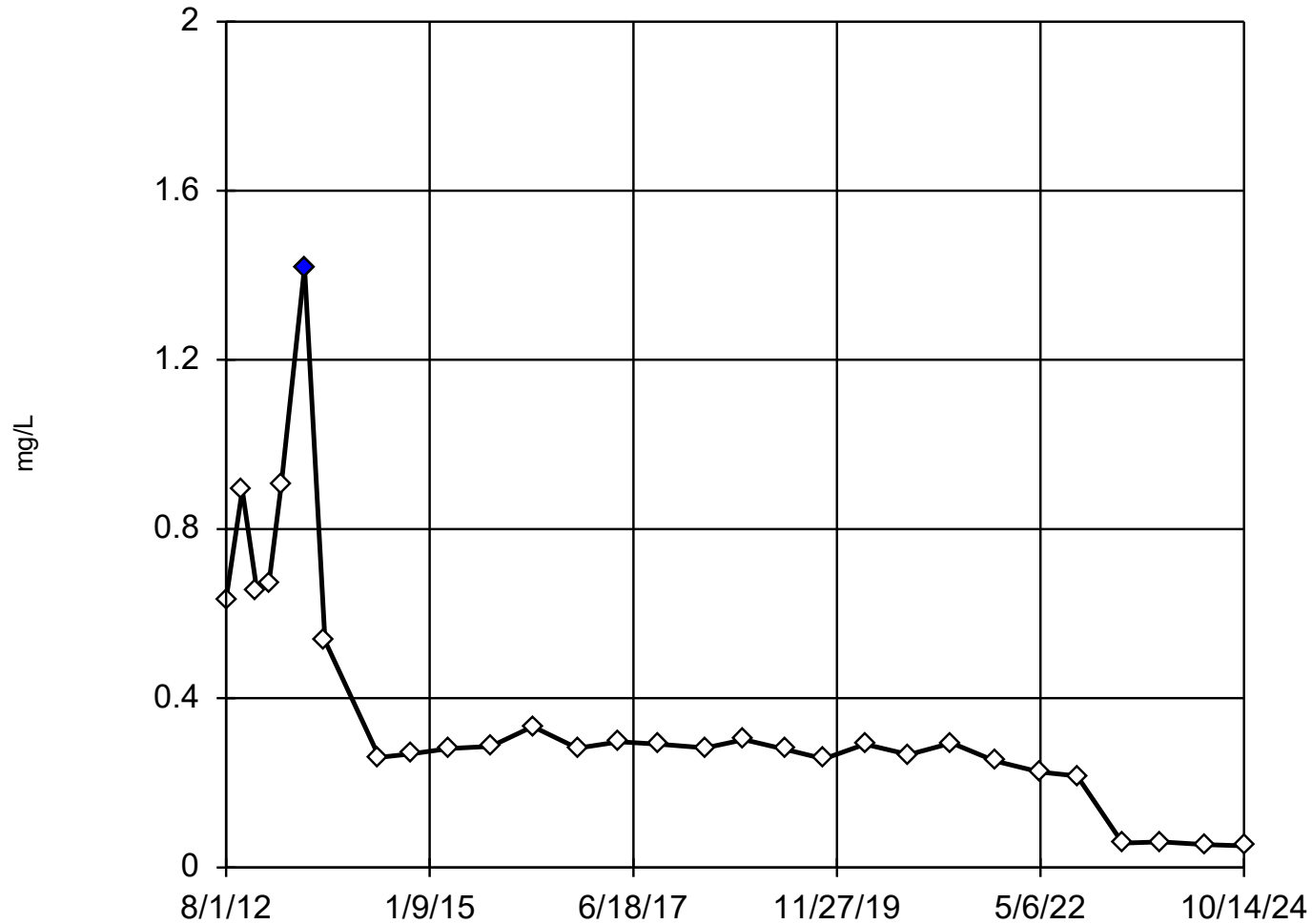
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9524
Critical = 0.926 (after natural log transformation)
The distribution, after removal of suspect value, was found to be log-normal.

Constituent: Barium Analysis Run 1/21/2025 6:23 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

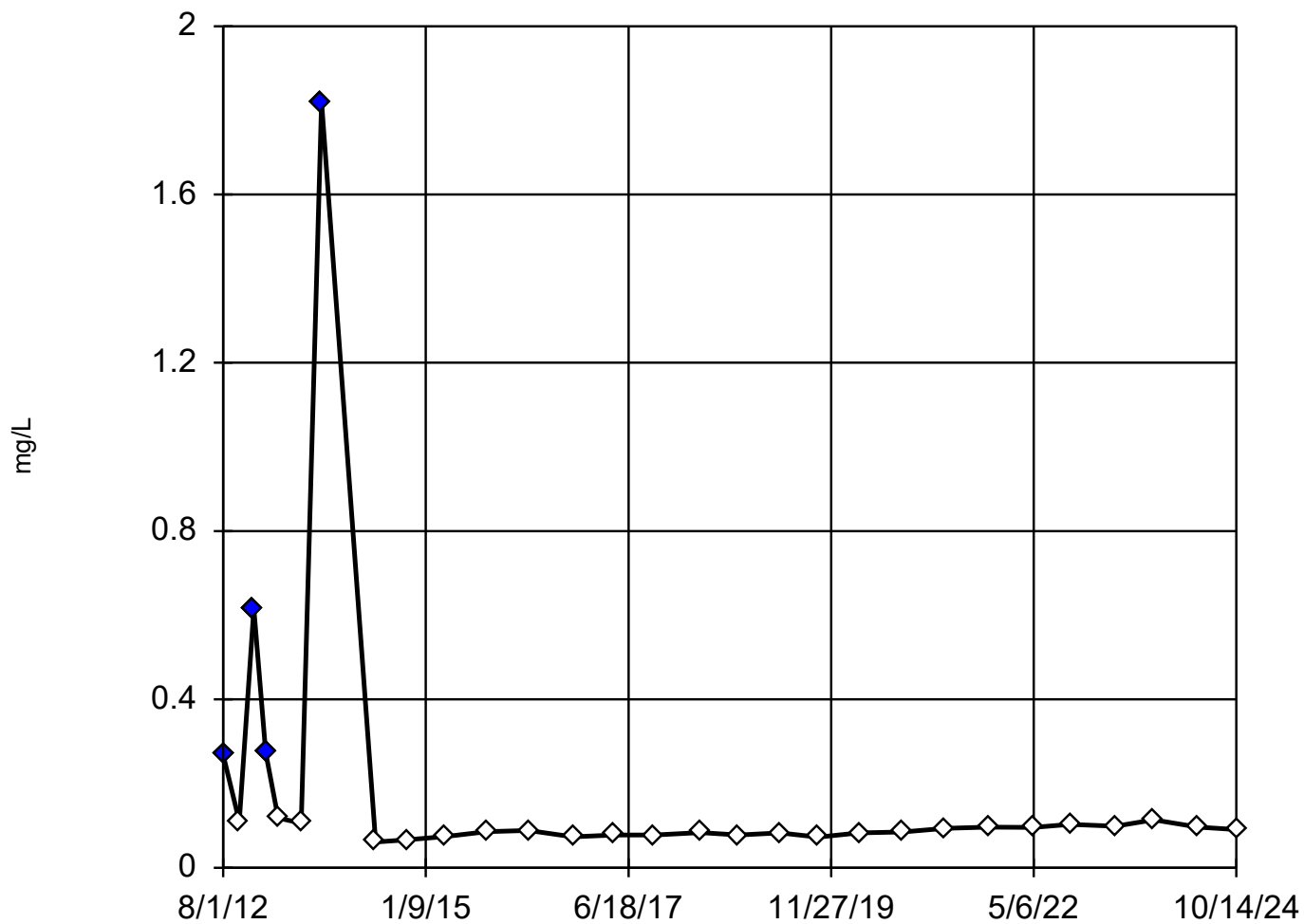
Tukey's Outlier Screening

MW-216A



Rosner's Outlier Test

MW-217A



n = 29

Statistical outliers are drawn as solid.

k = 4
r = 4.537
Tabulated value = 3.452
Alpha = 0.01

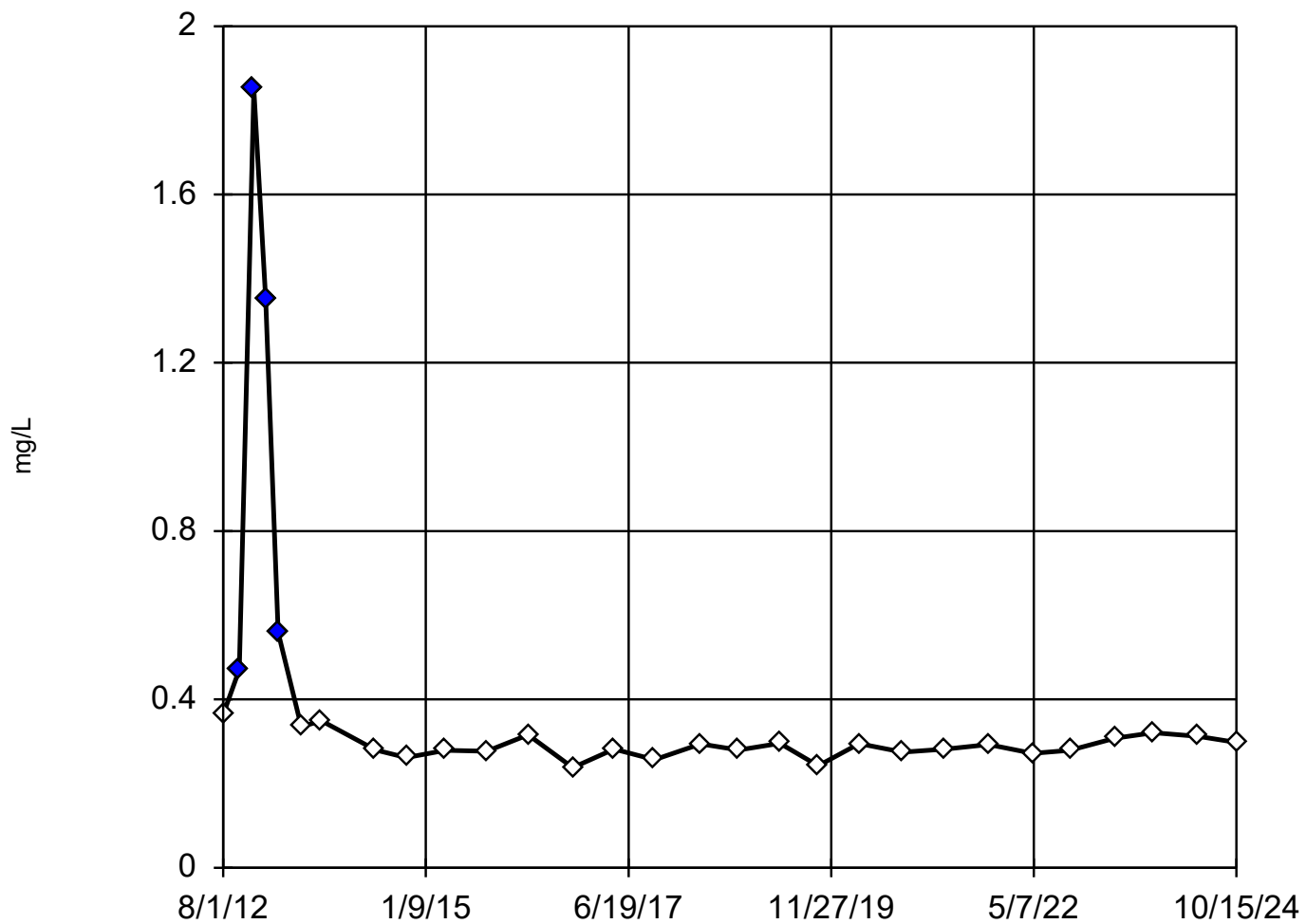
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9804
Critical = 0.931
The distribution, after
removal of suspect val-
ues, was found to be nor-
mally distributed.

Constituent: Barium Analysis Run 1/21/2025 6:23 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Rosner's Outlier Test

MW-220A



n = 29

Statistical outliers are drawn as solid.

k = 4
r = 3.759
Tabulated value = 3.452
Alpha = 0.01

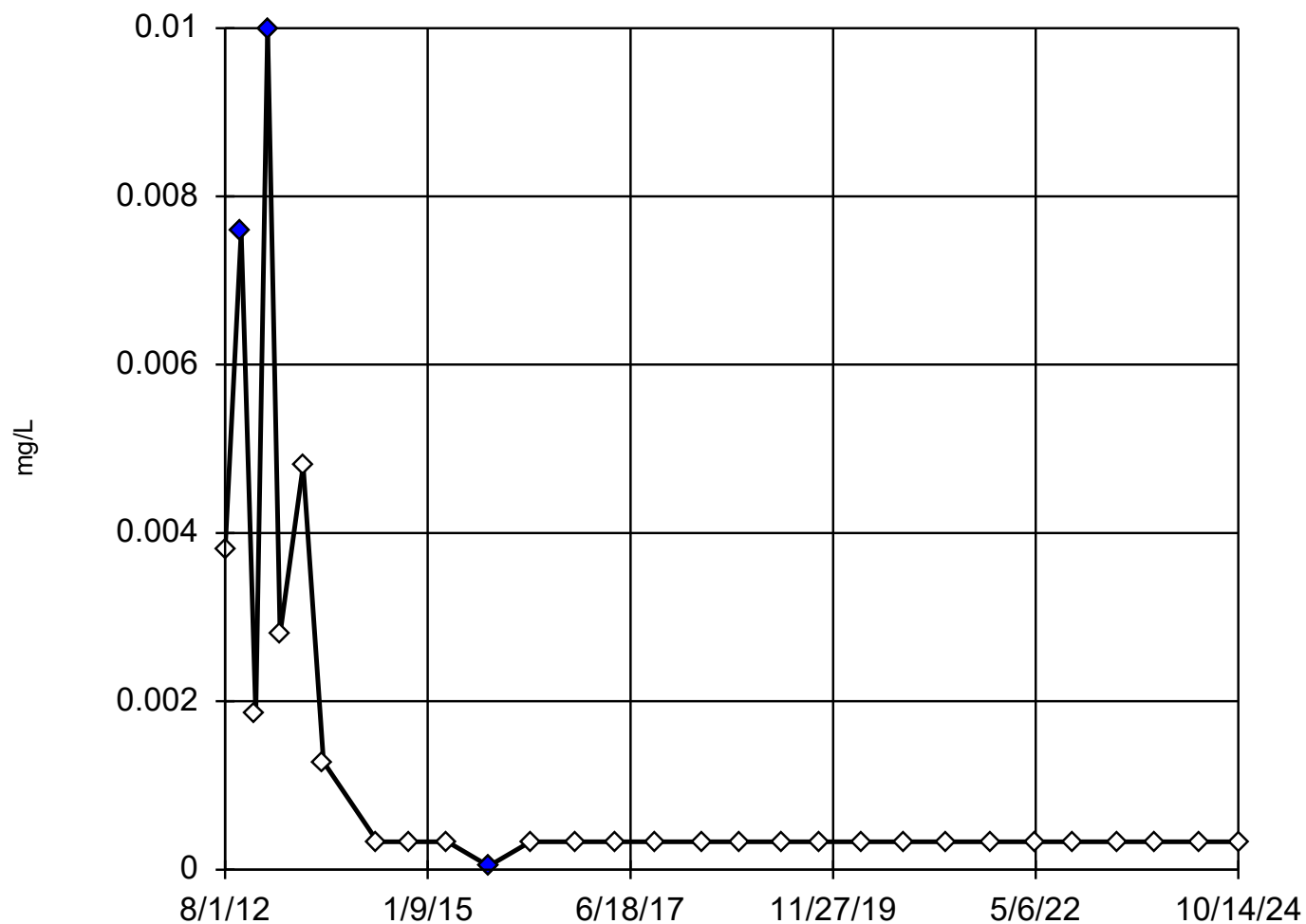
Normality test used:
Shapiro Wilk@ $\alpha = 0.1$
Calculated = 0.9588
Critical = 0.931
The distribution, after
removal of suspect val-
ues, was found to be nor-
mally distributed.

Constituent: Barium Analysis Run 1/21/2025 6:23 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-216A



n = 29

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

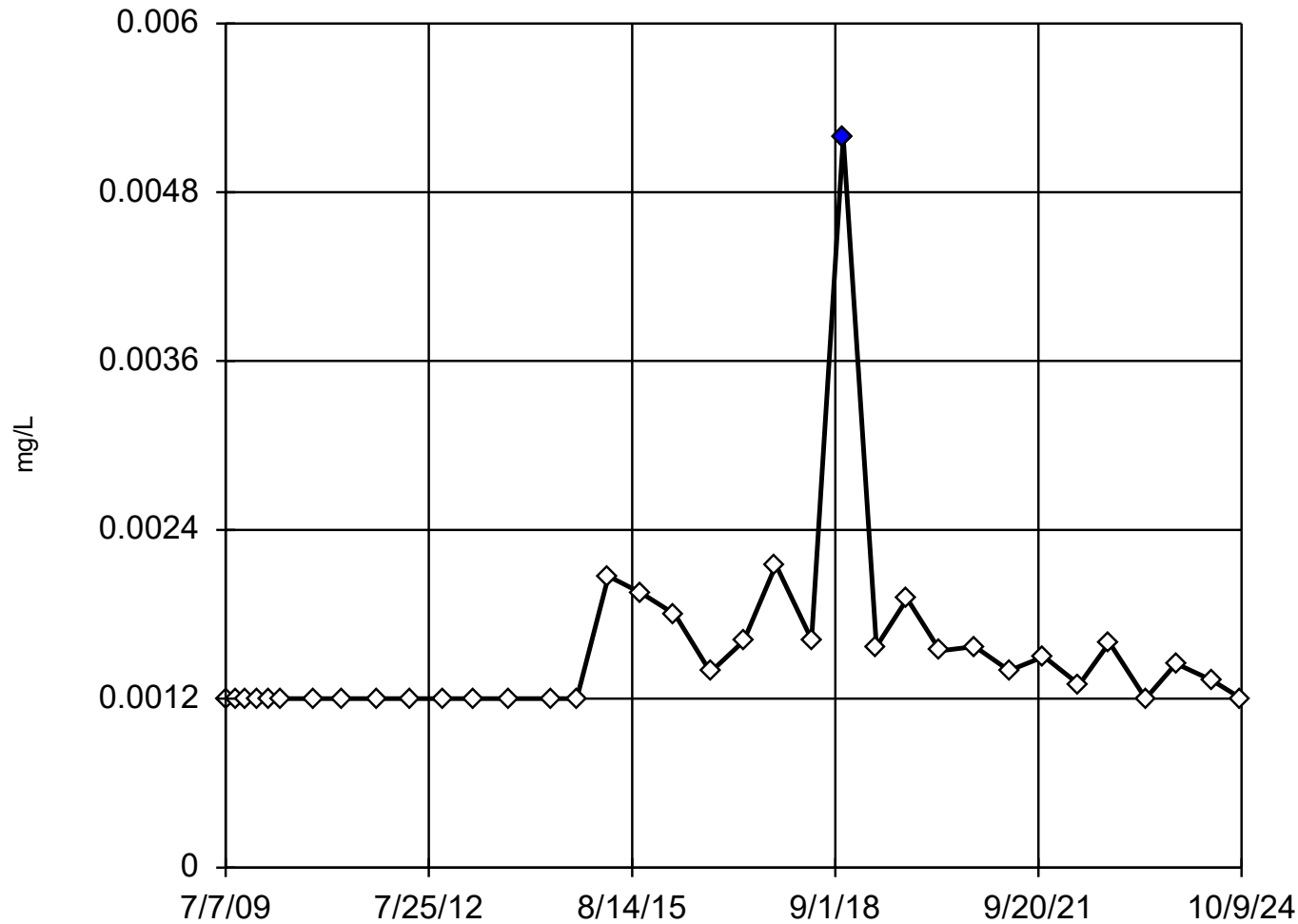
High cutoff = 0.004965,
low cutoff = 0.0000432,
based on IQR multiplier
of 3.

Constituent: Beryllium Analysis Run 1/21/2025 6:24 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

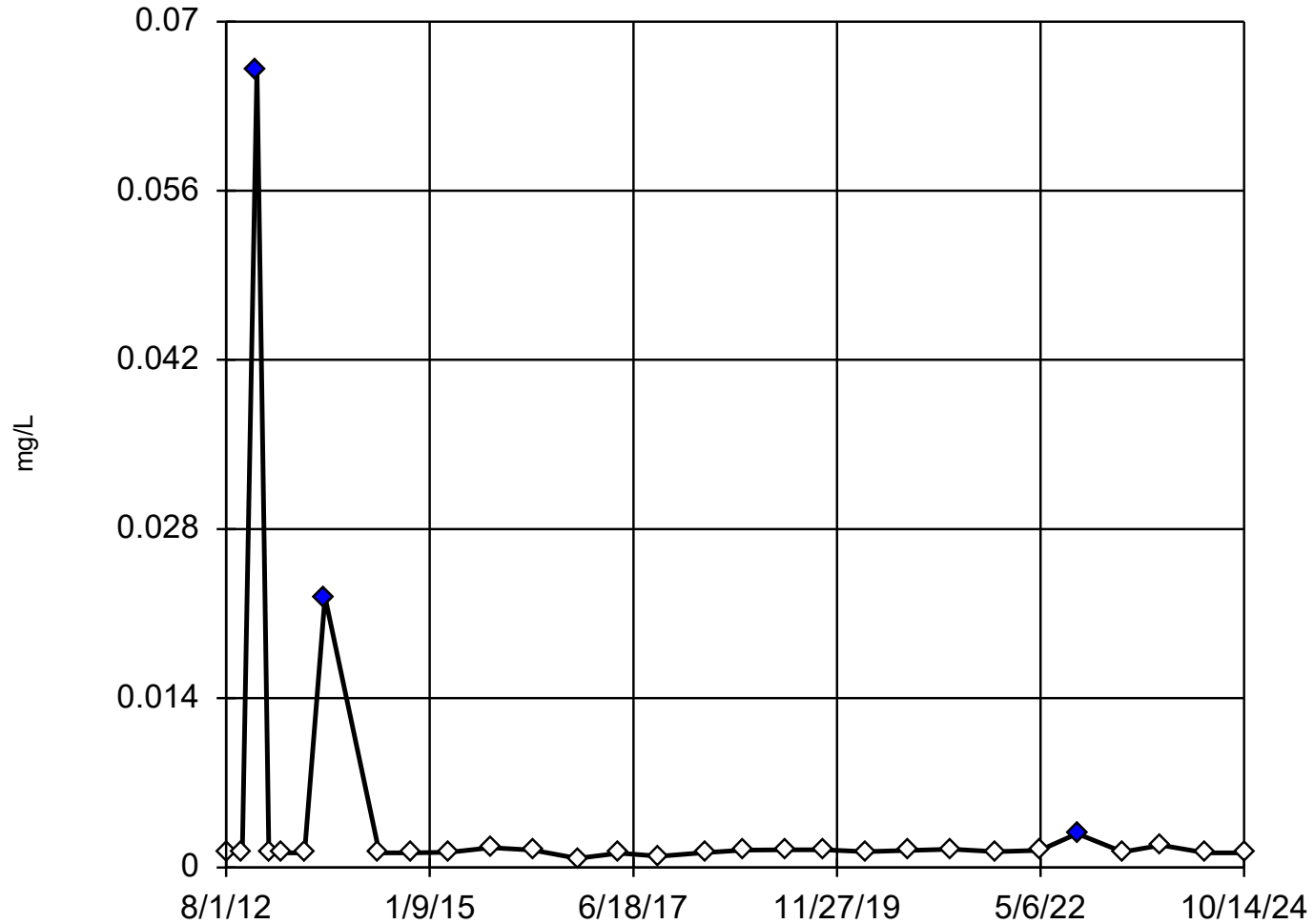
Tukey's Outlier Screening

MW-209B



Tukey's Outlier Screening

MW-217A



n = 29

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

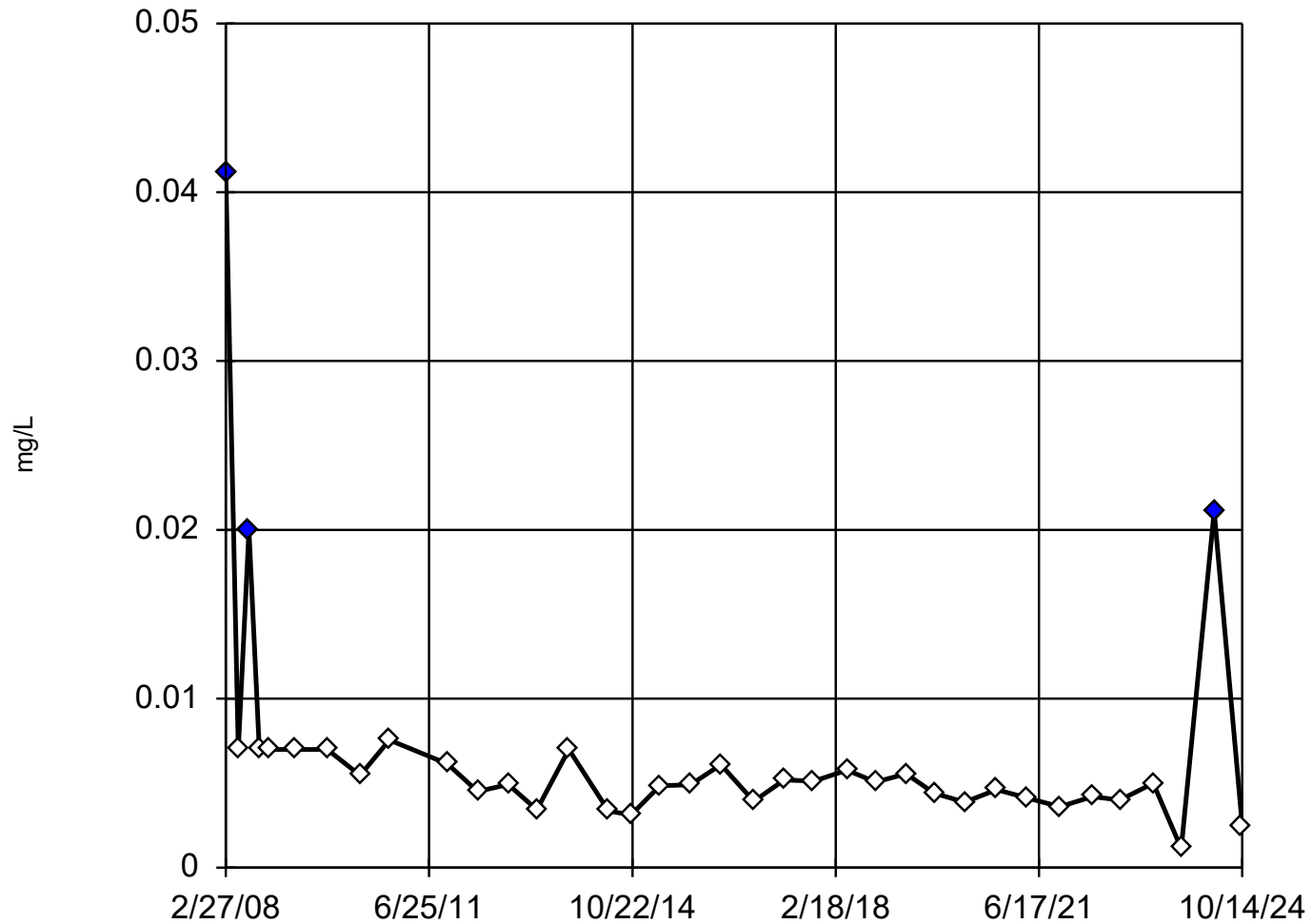
High cutoff = 0.002558,
low cutoff = 0.0006802,
based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 1/21/2025 6:25 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Rosner's Outlier Test

MW-1A



n = 36

Statistical outliers are drawn as solid.

k = 4

r = 4.911

Tabulated value = 3.068

Alpha = 0.01

Normality test used:

Shapiro Wilk@alpha = 0.1

Calculated = 0.9626

Critical = 0.942

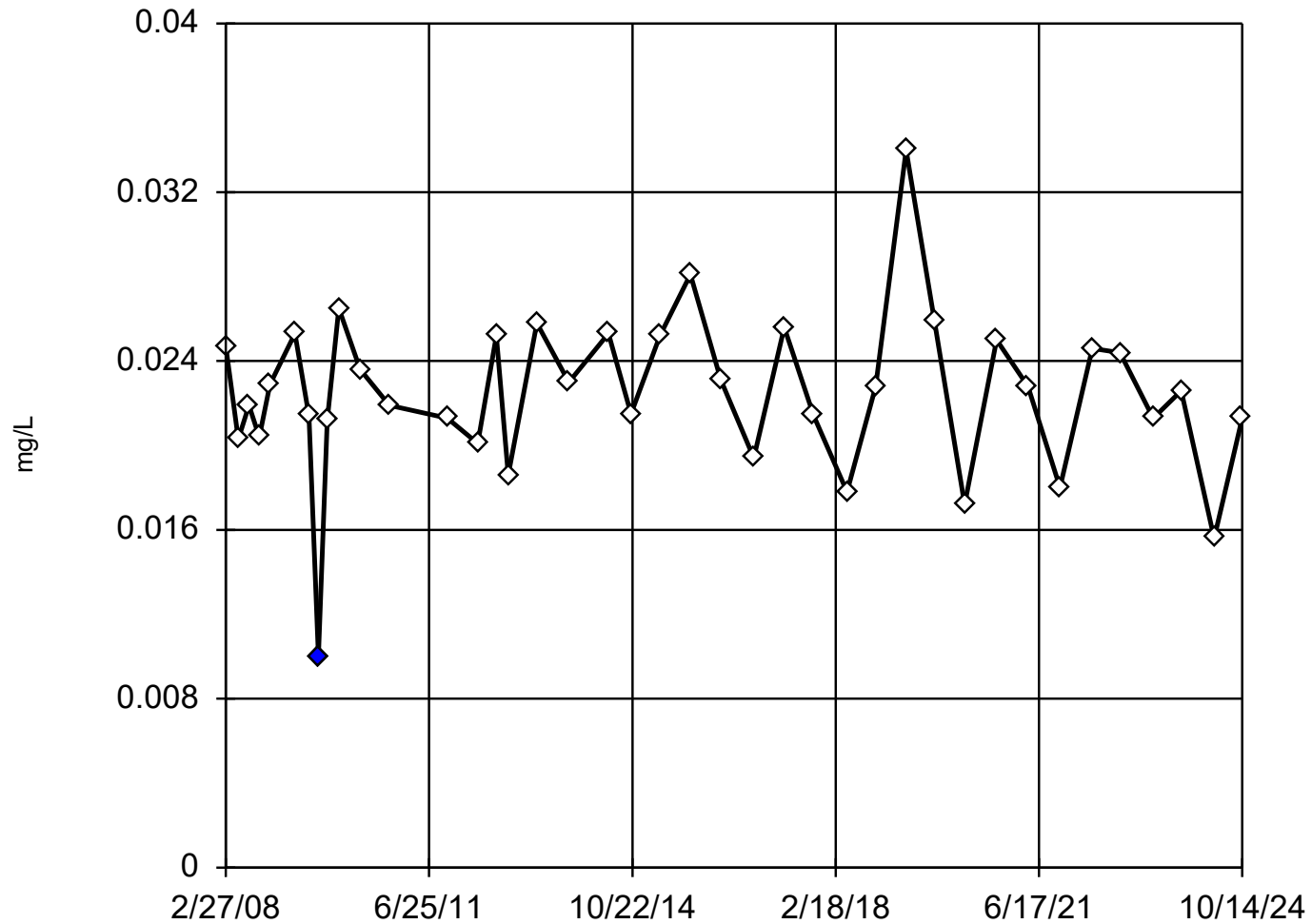
The distribution, after removal of suspect values, was found to be normally distributed.

Constituent: Cobalt Analysis Run 1/21/2025 6:25 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Rosner's Outlier Test

MW-2A-97



n = 40

Statistical outlier is
drawn as solid.

k = 1

r = 3.202

Tabulated value = 2.98

Alpha = 0.01

Normality test used:

Shapiro Wilk@alpha = 0.1

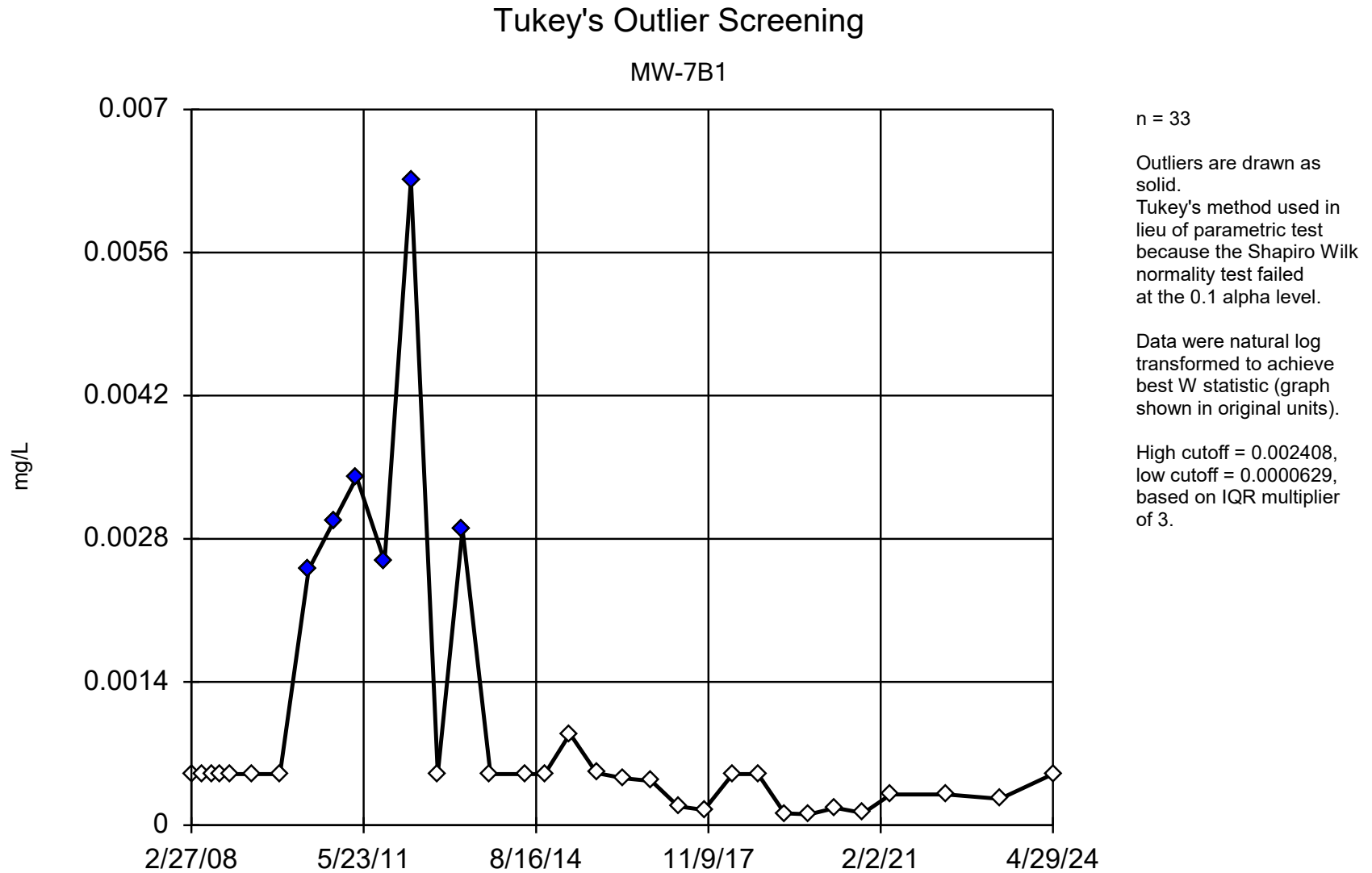
Calculated = 0.9592

Critical = 0.948

The distribution, after
removal of suspect val-
ue, was found to be nor-
mally distributed.

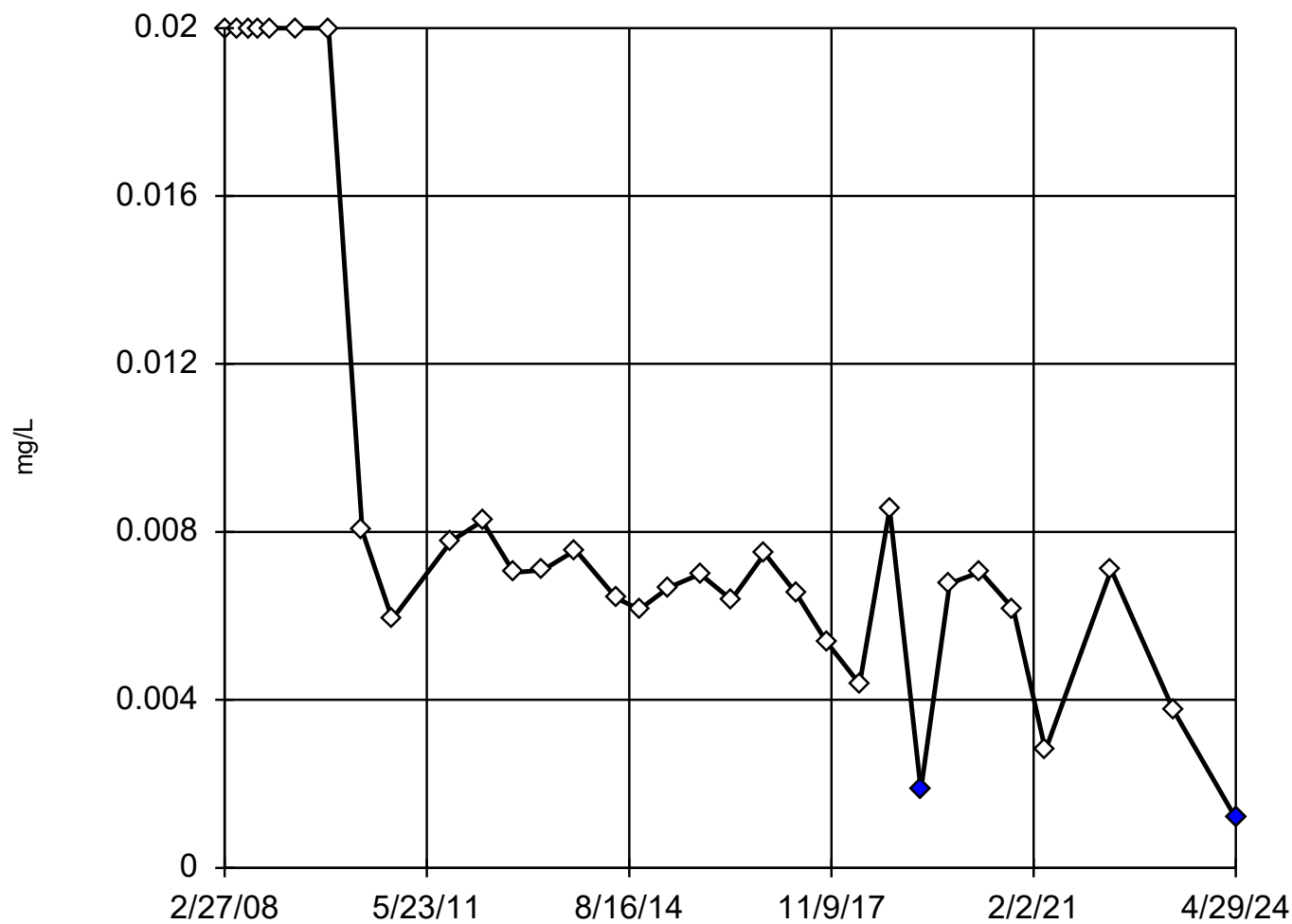
Constituent: Cobalt Analysis Run 1/21/2025 6:25 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill



Tukey's Outlier Screening

MW-14B



n = 32

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

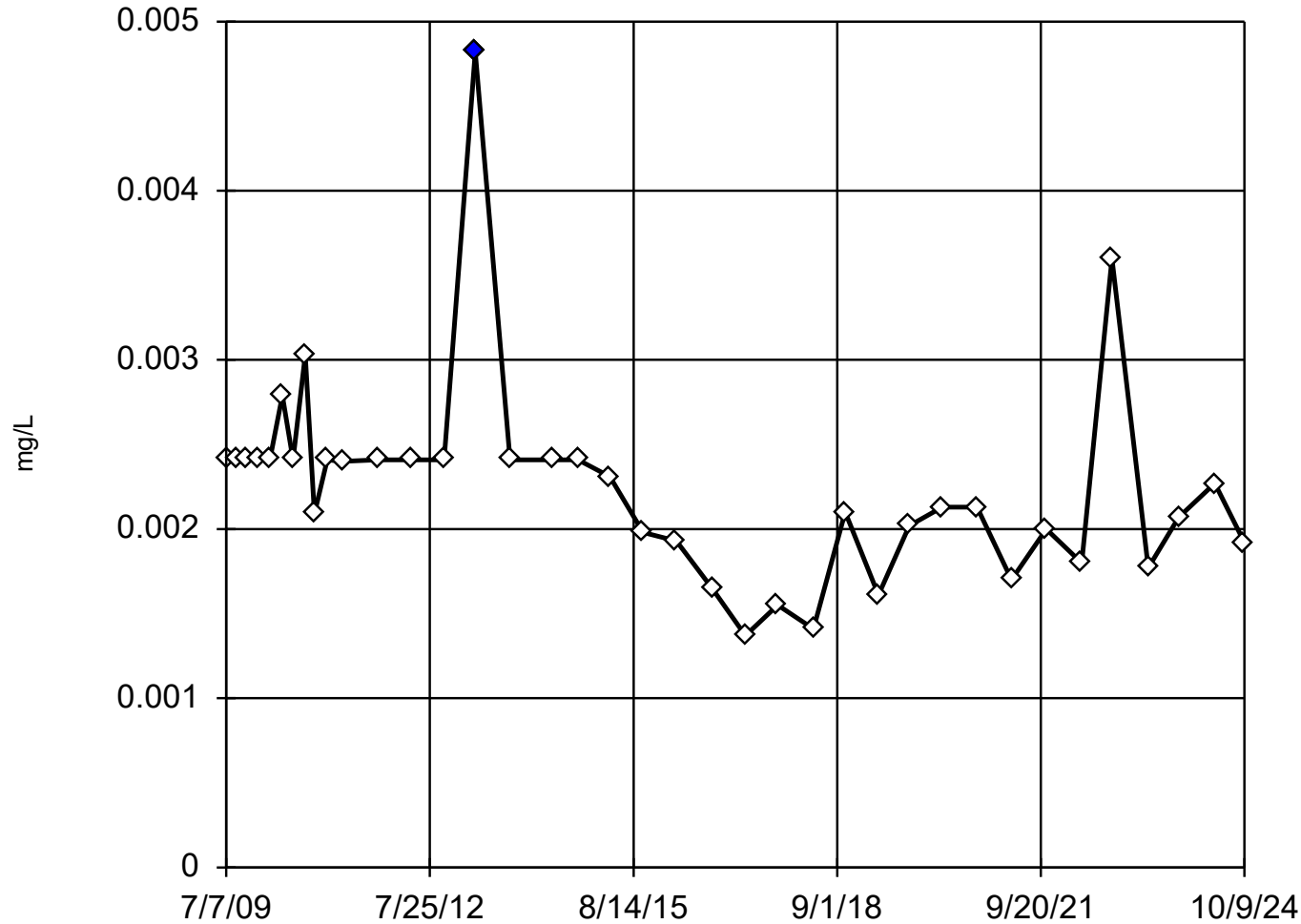
High cutoff = 0.02134,
low cutoff = 0.002426,
based on IQR multiplier
of 3.

Constituent: Cobalt Analysis Run 1/21/2025 6:25 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

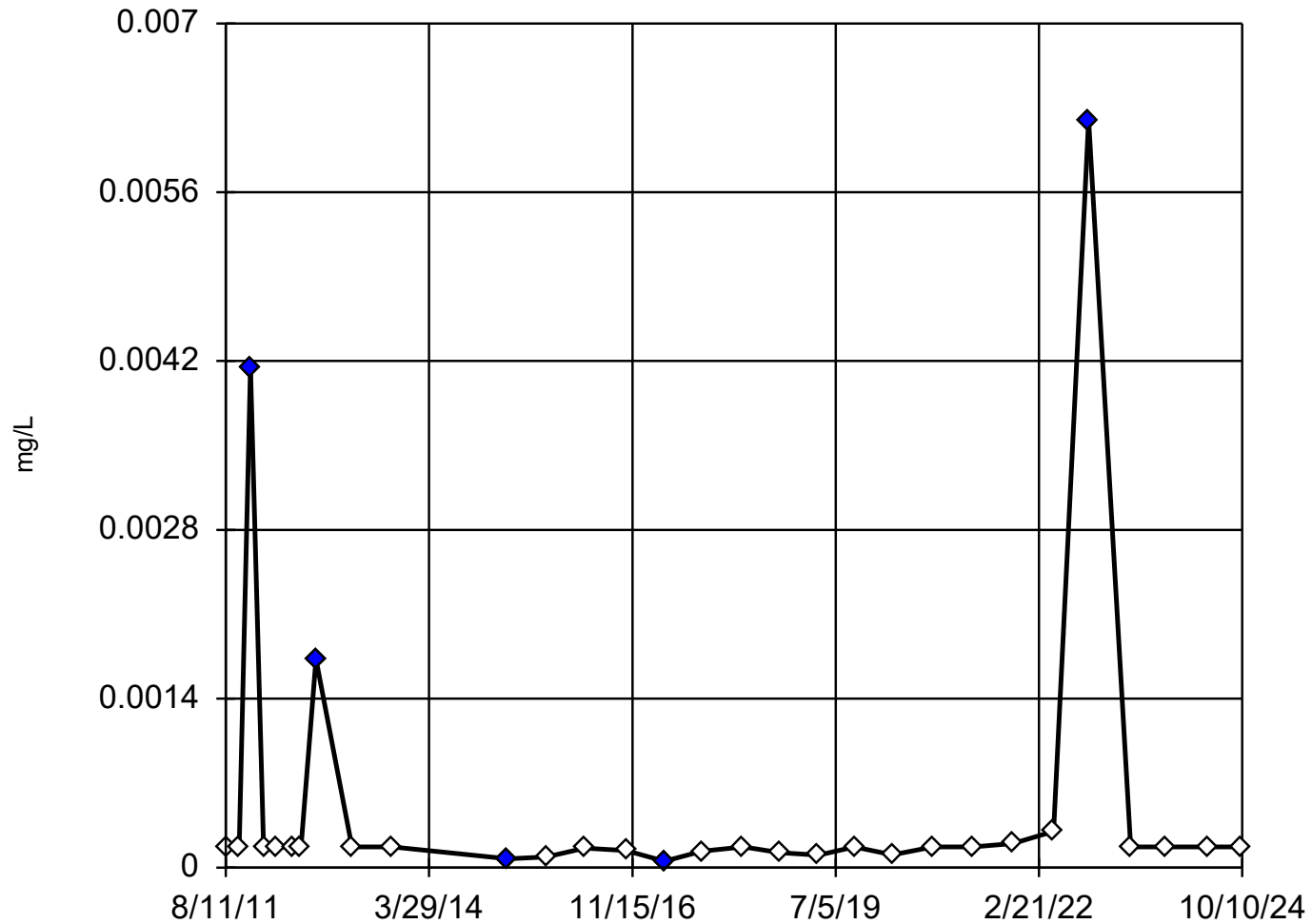
Tukey's Outlier Screening

MW-209B



Tukey's Outlier Screening

MW-310A



n = 30

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

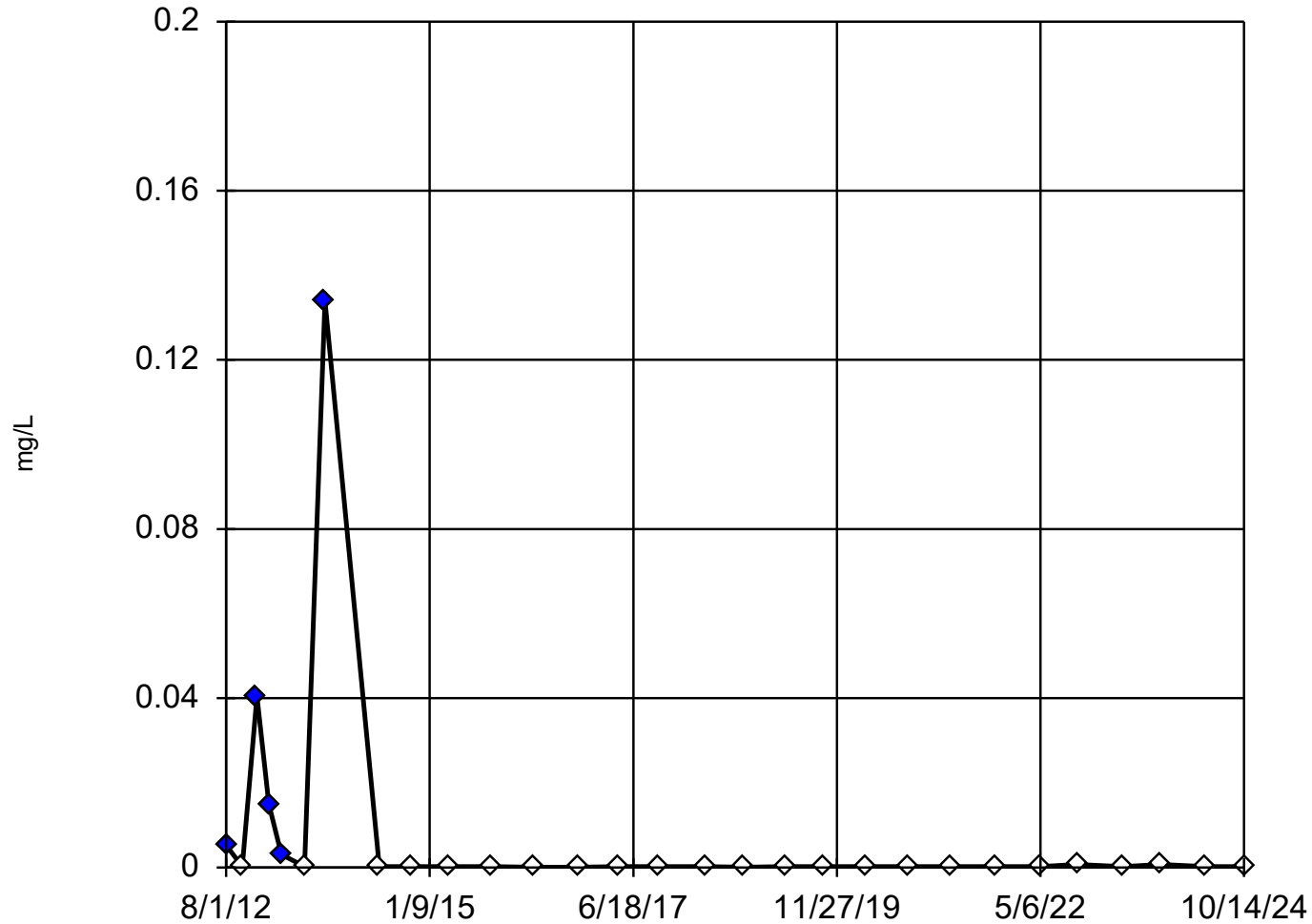
High cutoff = 0.0003112,
low cutoff = 0.00007591,
based on IQR multiplier of 3.

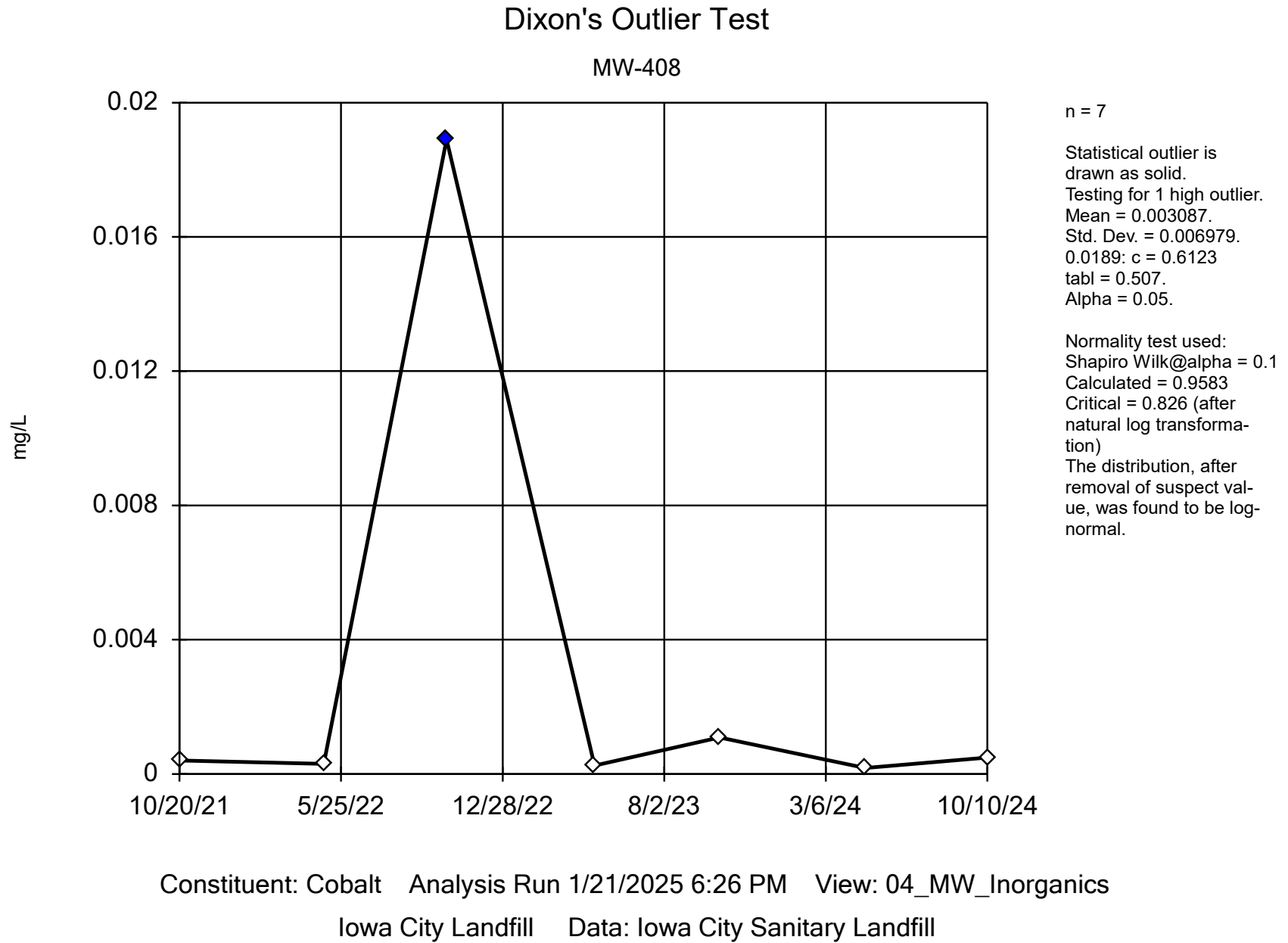
Constituent: Cobalt Analysis Run 1/21/2025 6:26 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

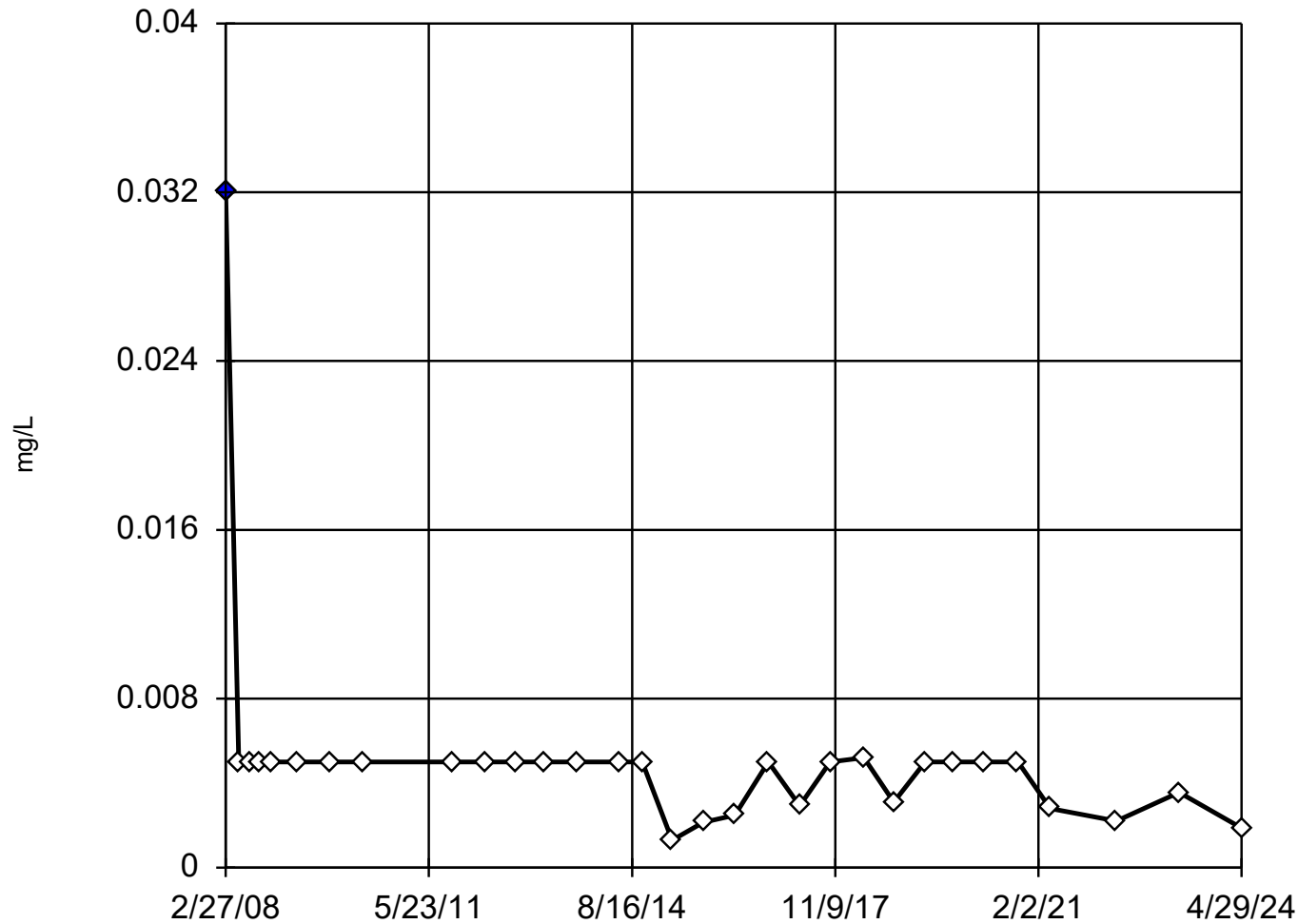
MW-217A





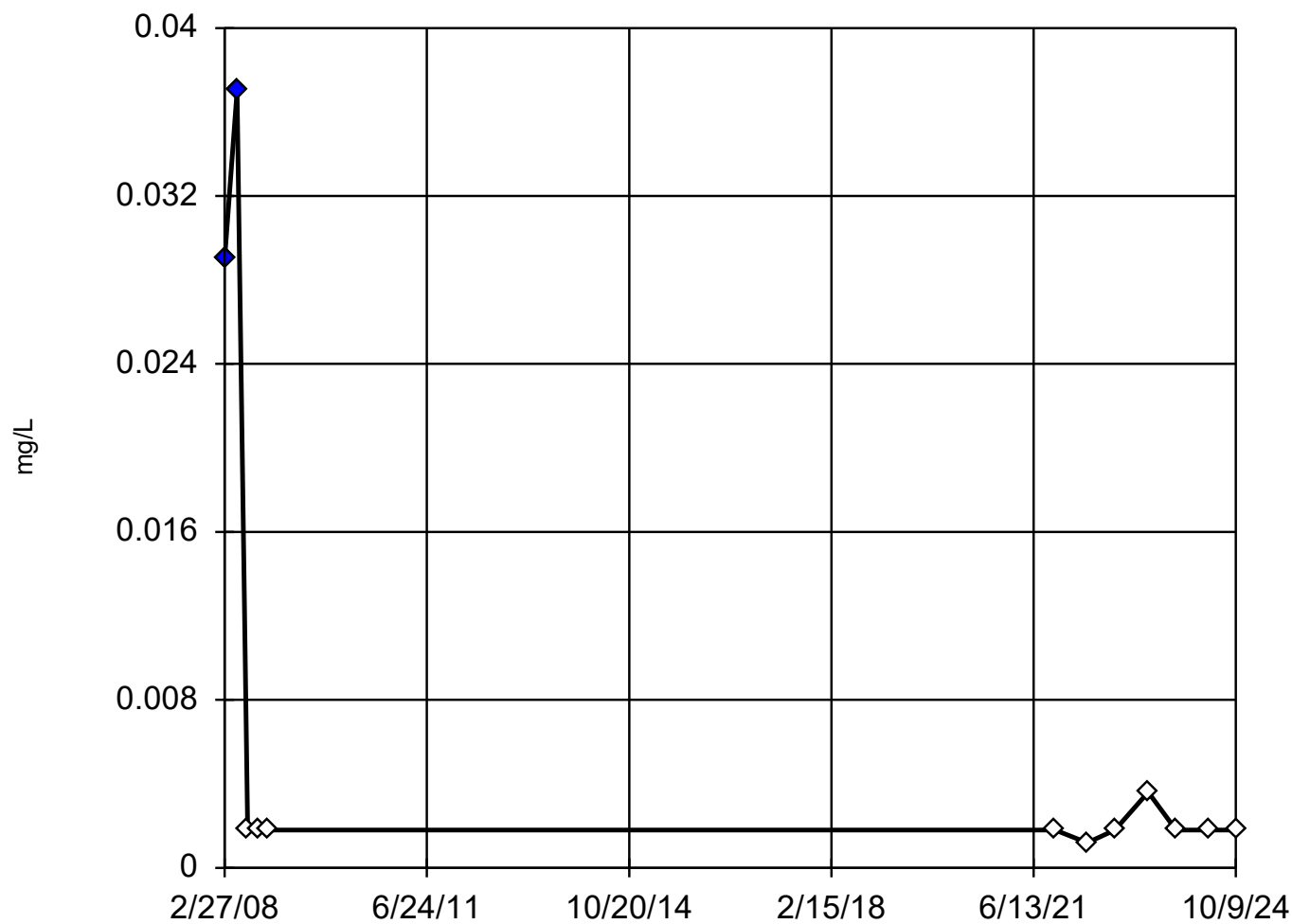
Tukey's Outlier Screening

MW-5B



Tukey's Outlier Screening

MW-10B



$n = 12$

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

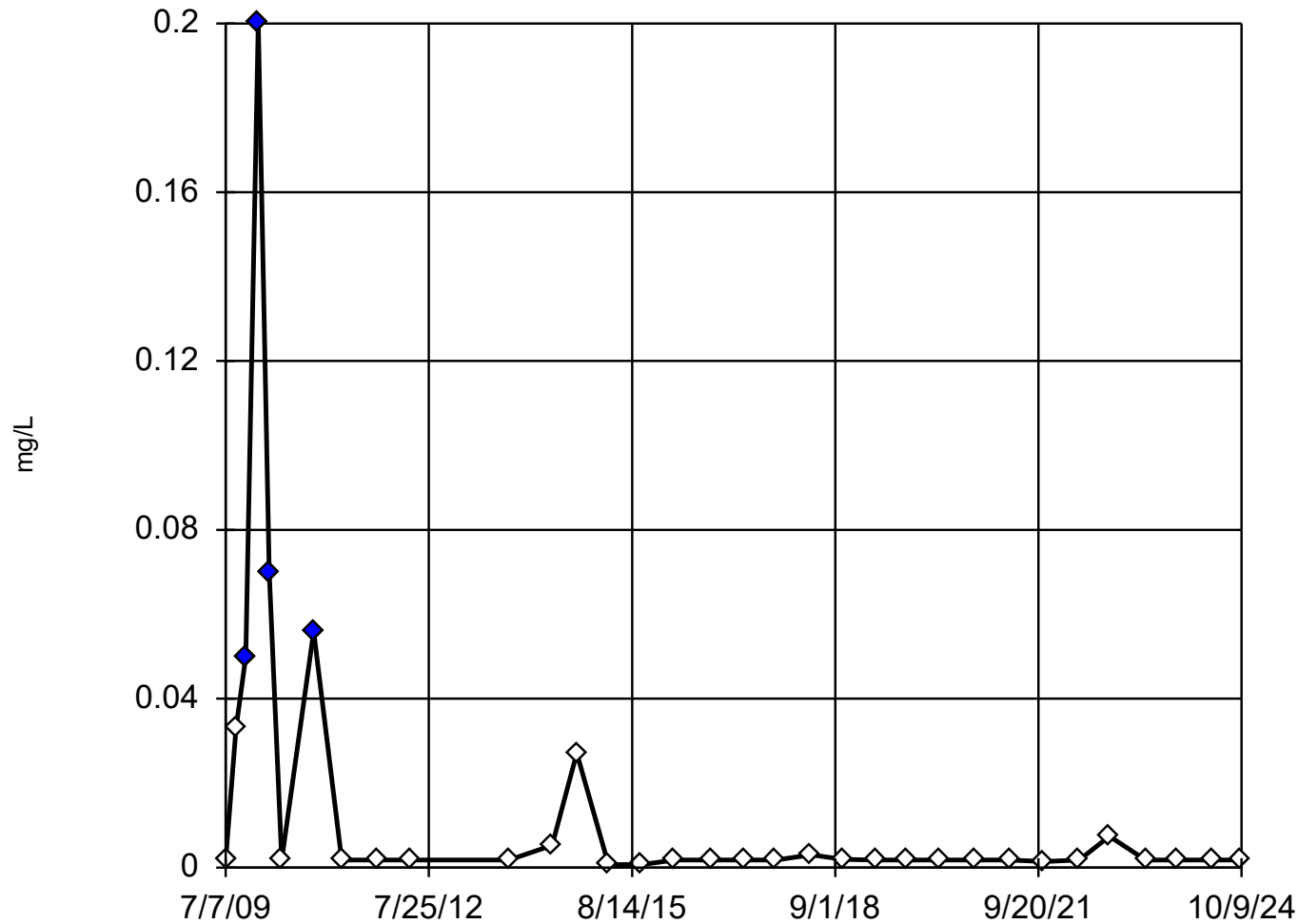
High cutoff = 0.00724,
low cutoff = 0.0006338,
based on IQR multiplier
of 3.

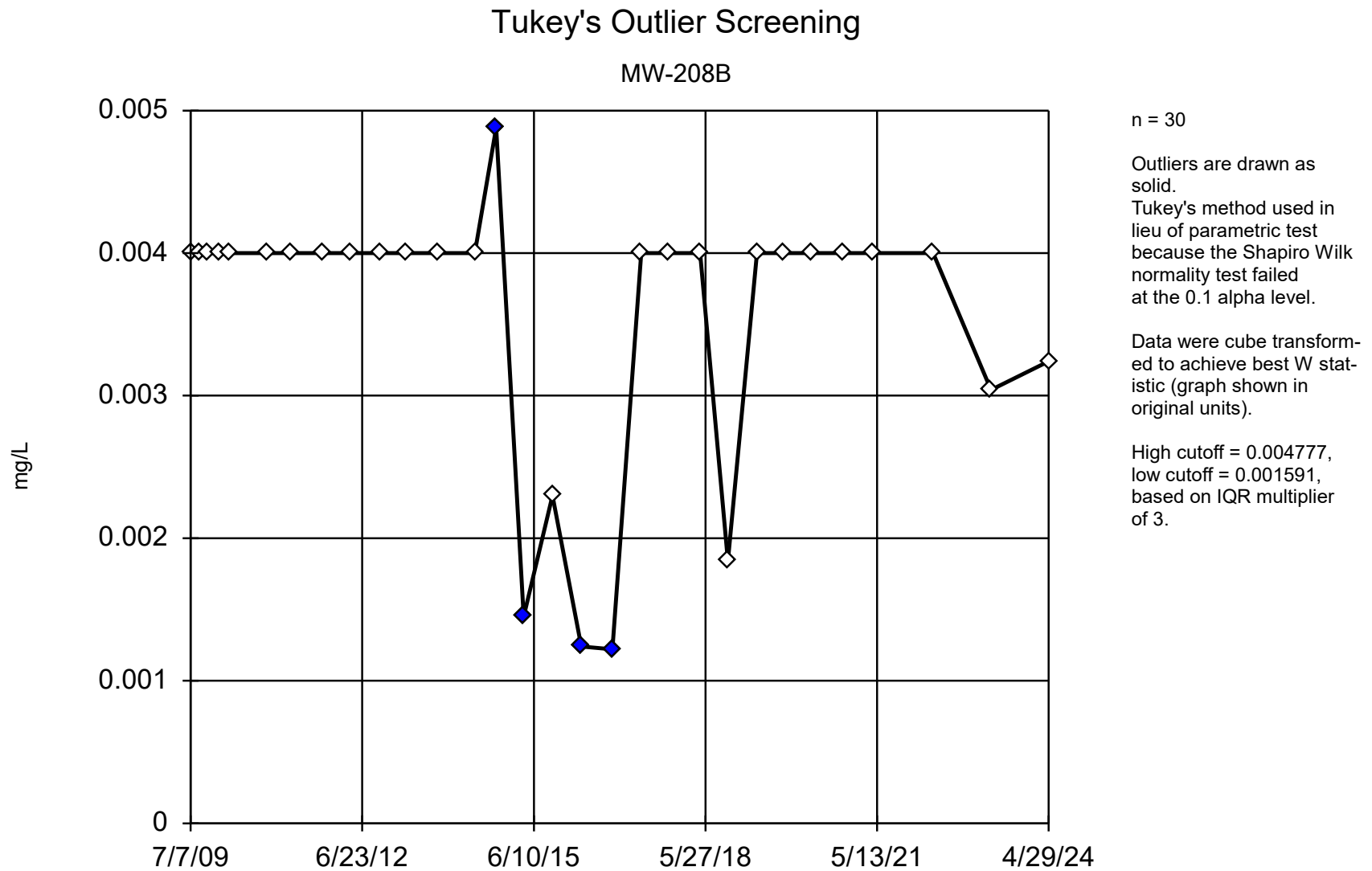
Constituent: Copper Analysis Run 1/21/2025 6:26 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

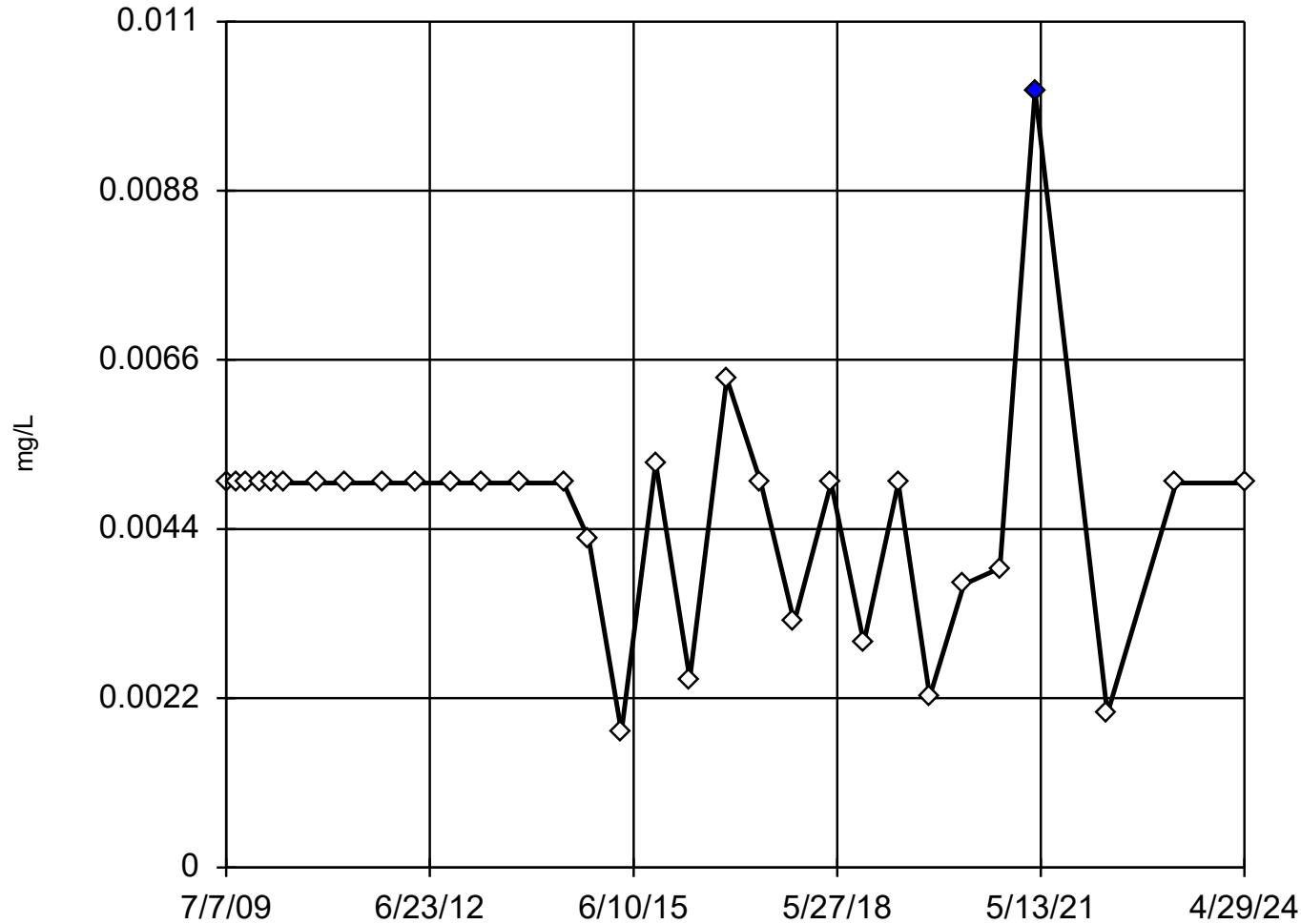
MW-201A

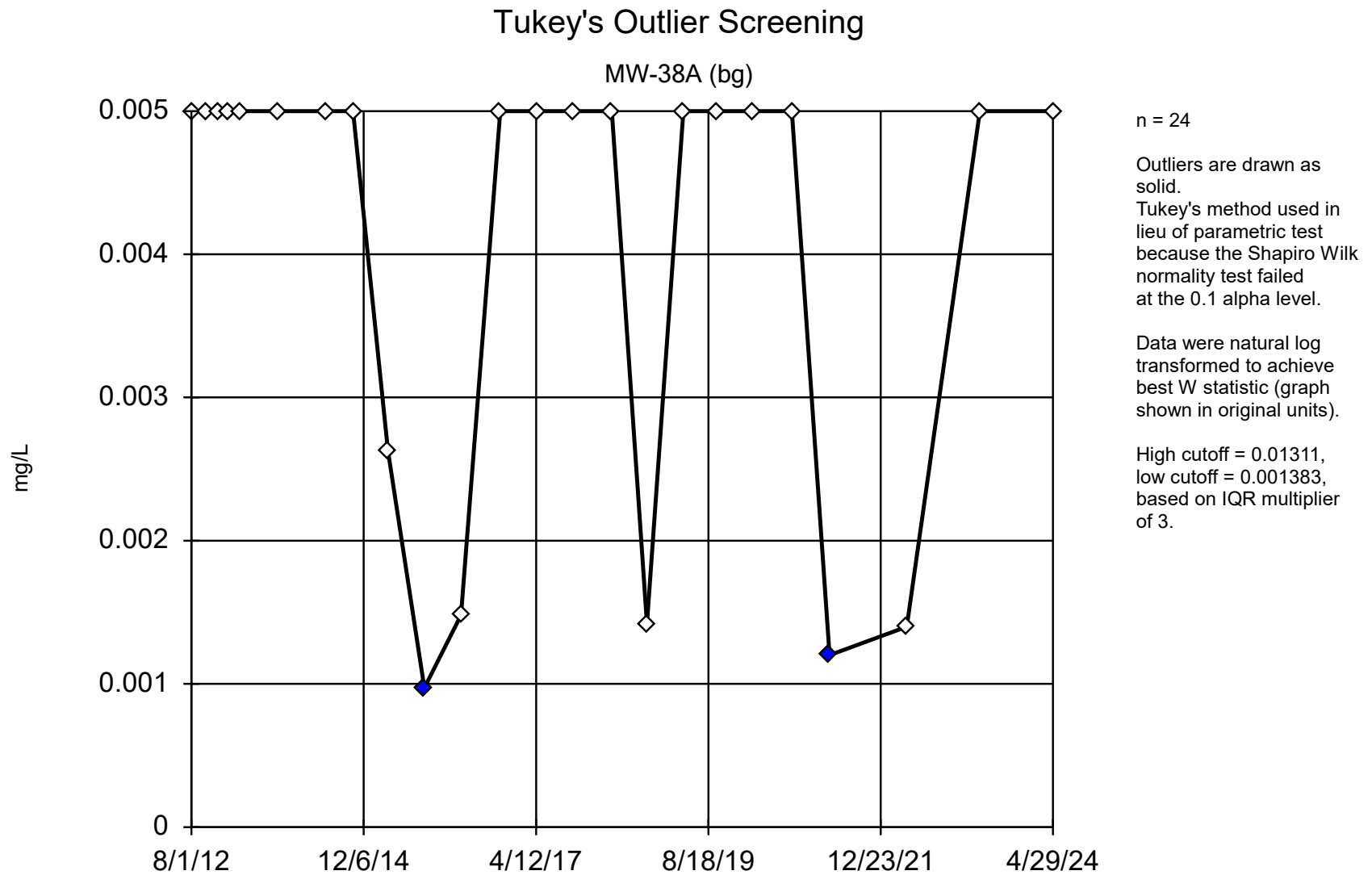




Tukey's Outlier Screening

MW-210B



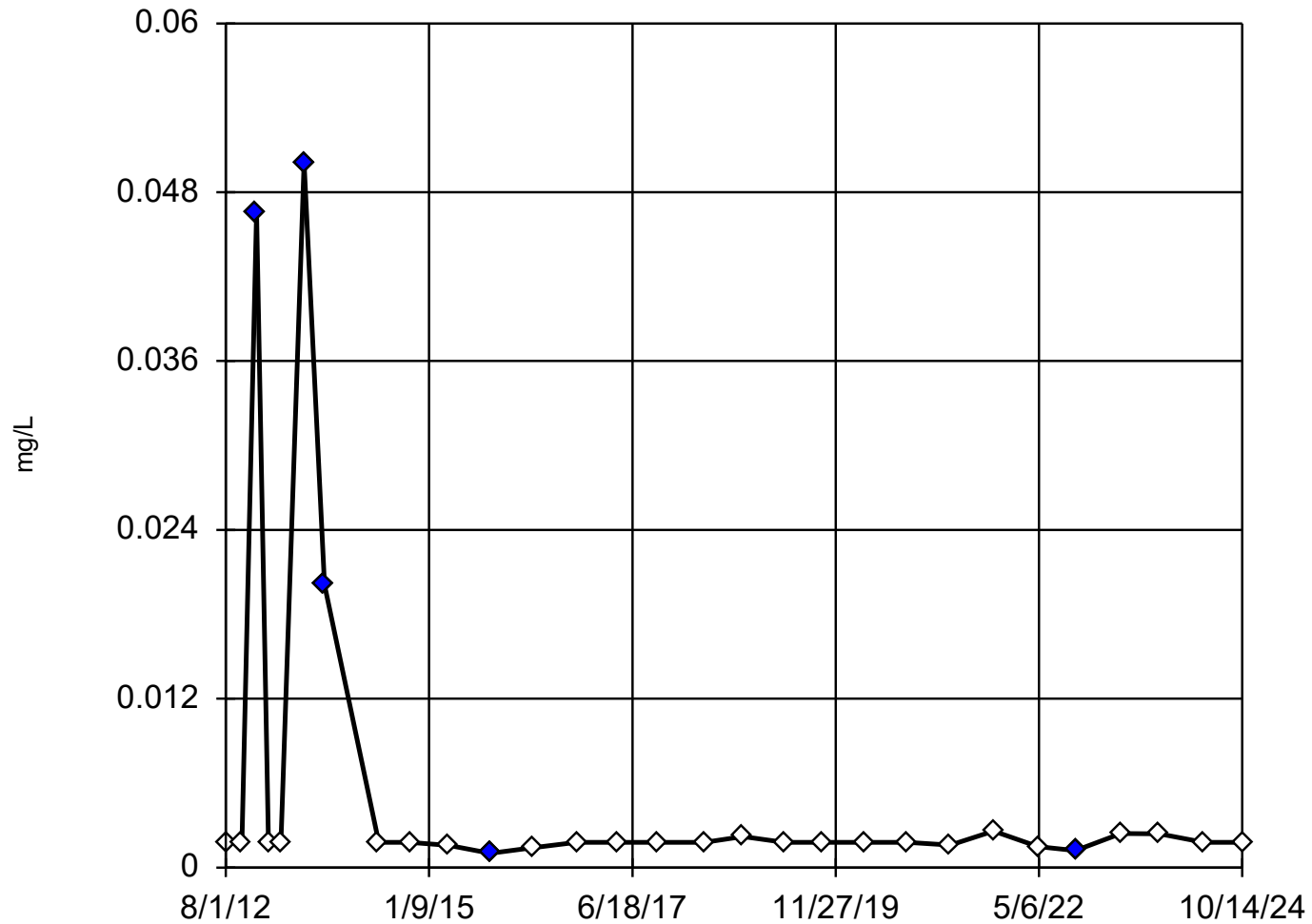


Constituent: Copper Analysis Run 1/21/2025 6:27 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-216A



n = 29

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

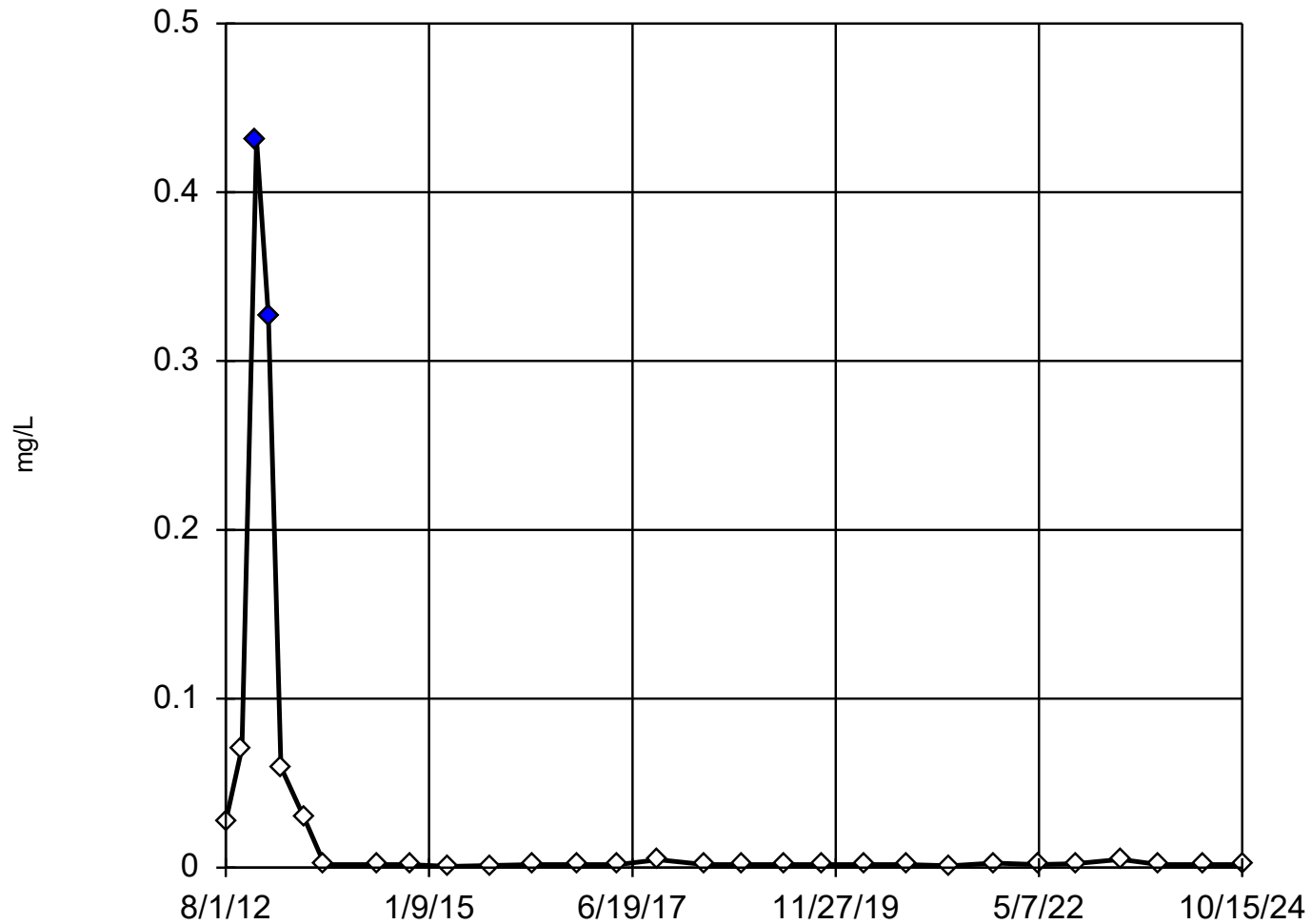
High cutoff = 0.002713,
low cutoff = 0.001323,
based on IQR multiplier of 3.

Constituent: Copper Analysis Run 1/21/2025 6:27 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-220A



n = 29

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

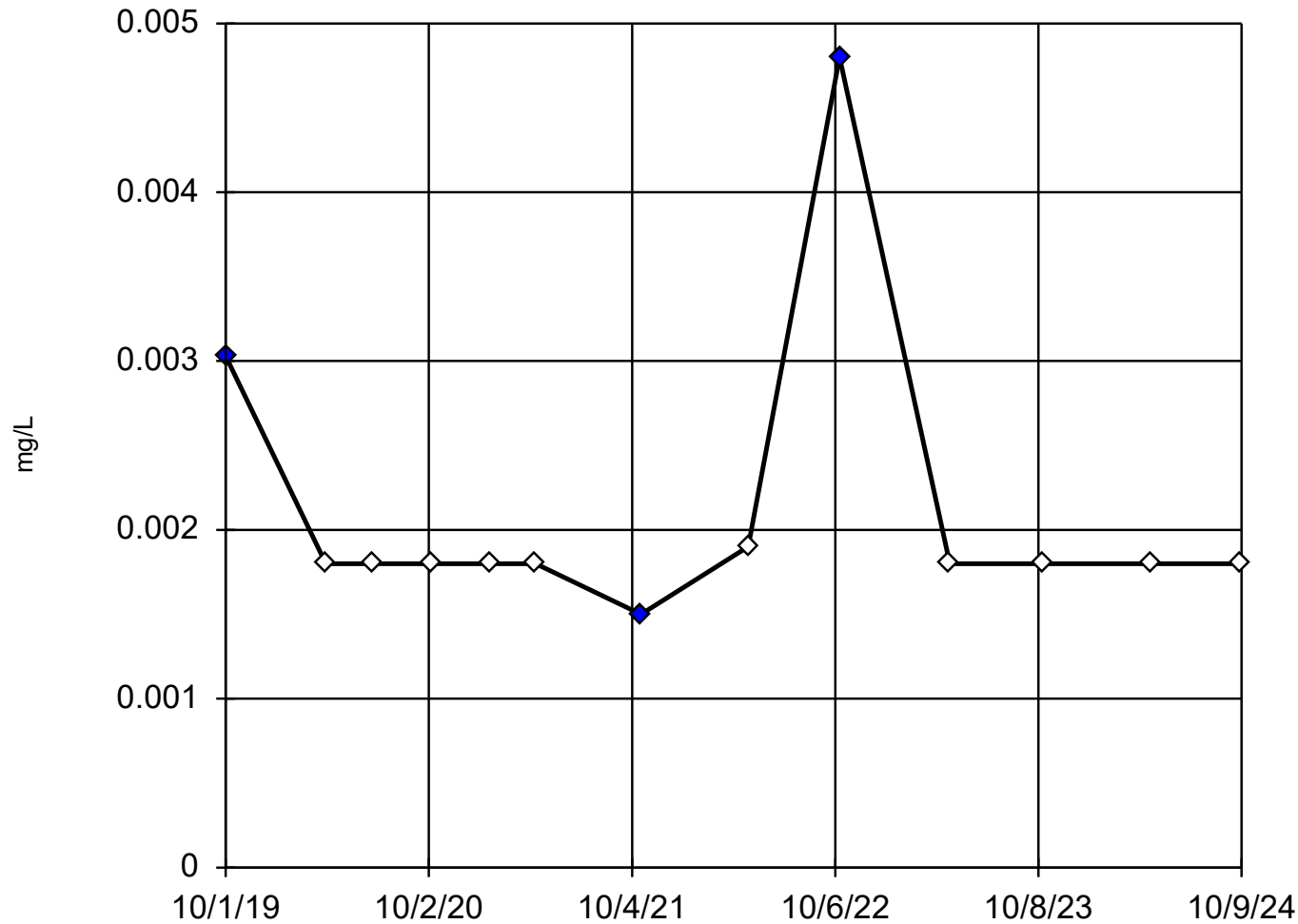
High cutoff = 0.0902,
low cutoff = 0.00009557,
based on IQR multiplier of 3.

Constituent: Copper Analysis Run 1/21/2025 6:27 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-18AR



n = 13

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

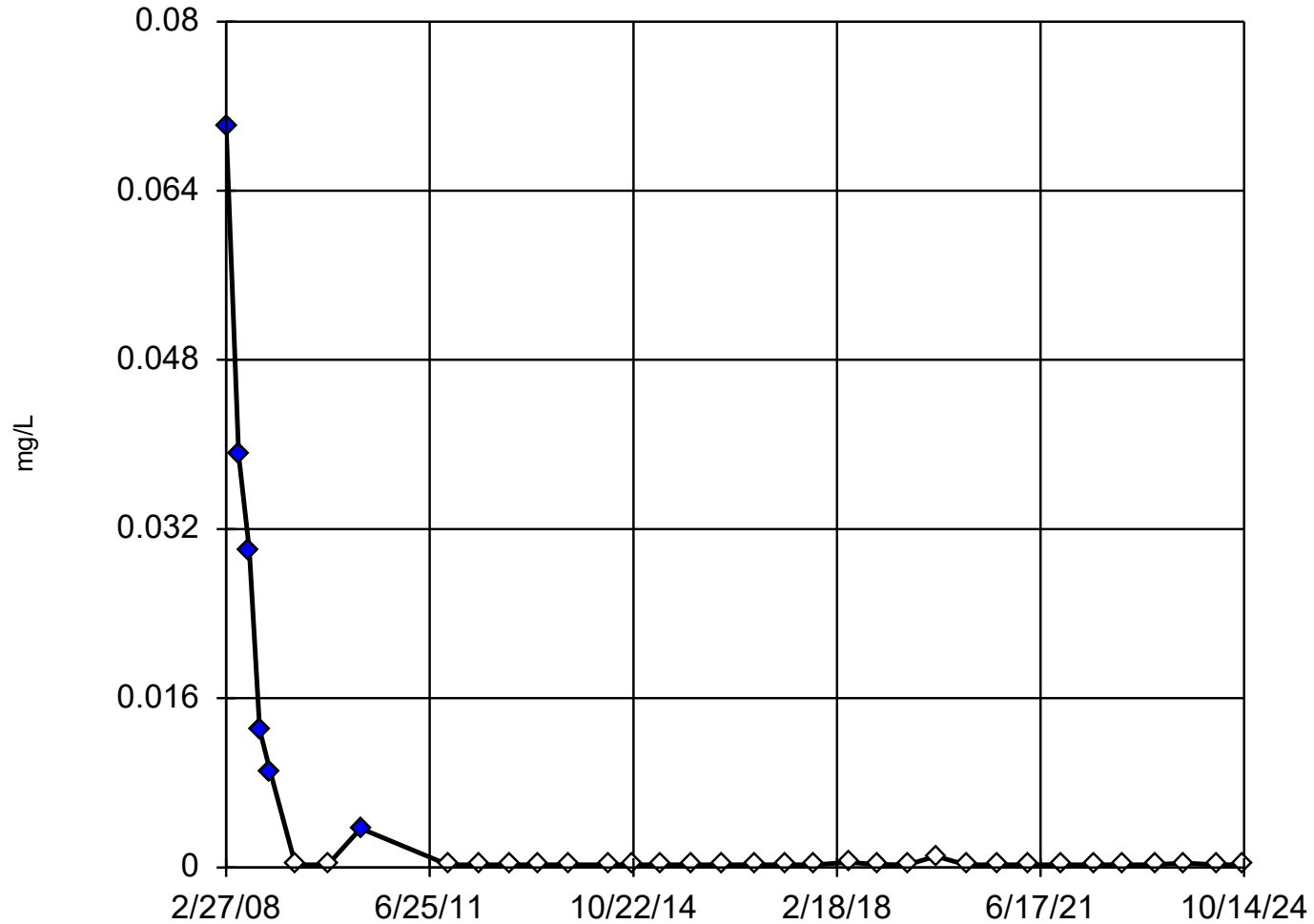
High cutoff = 0.002006,
low cutoff = 0.00166,
based on IQR multiplier of 3.

Constituent: Copper Analysis Run 1/21/2025 6:27 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-1A



n = 35

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

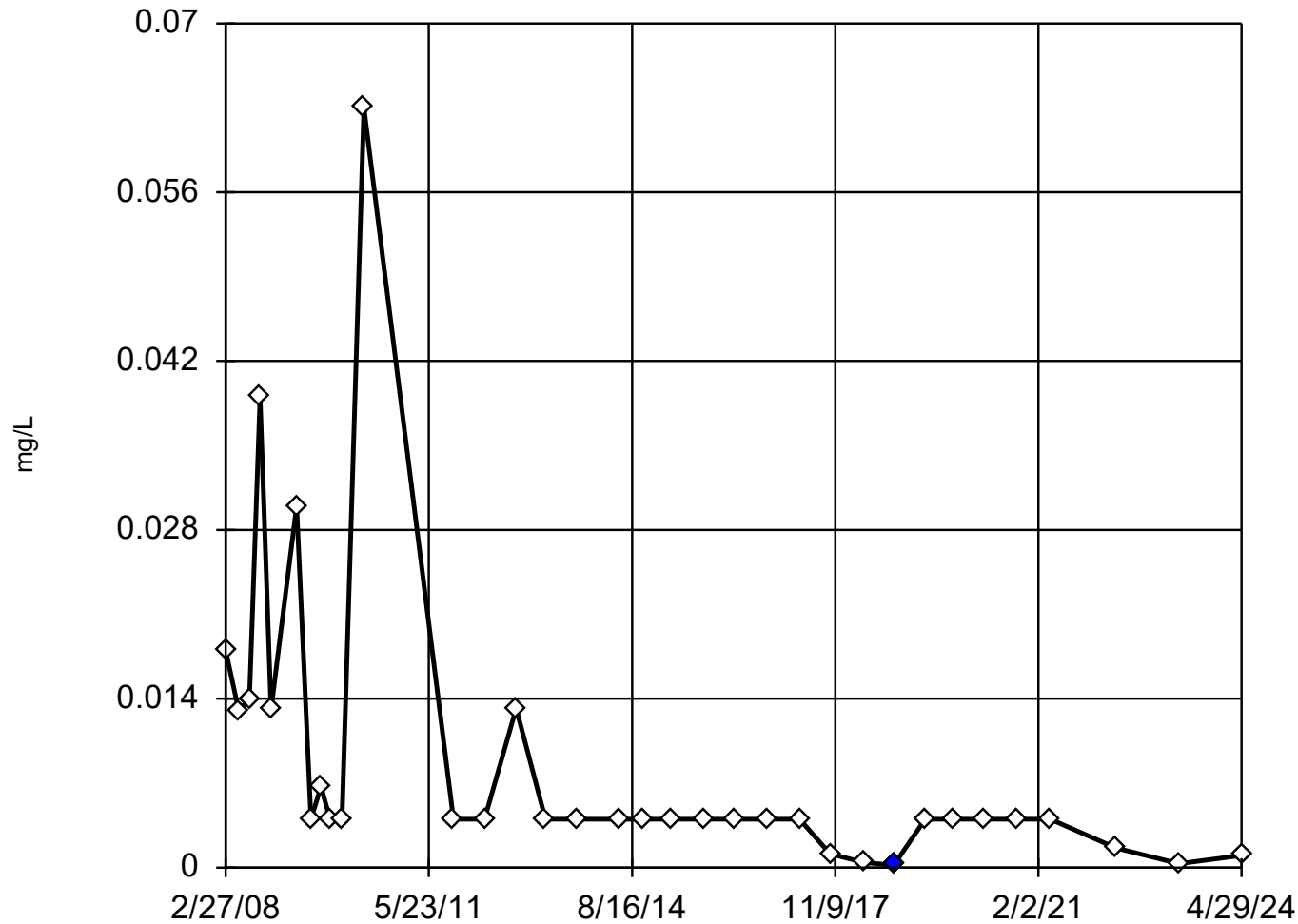
High cutoff = 0.001927, low cutoff = 0.00005788, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 1/21/2025 6:27 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

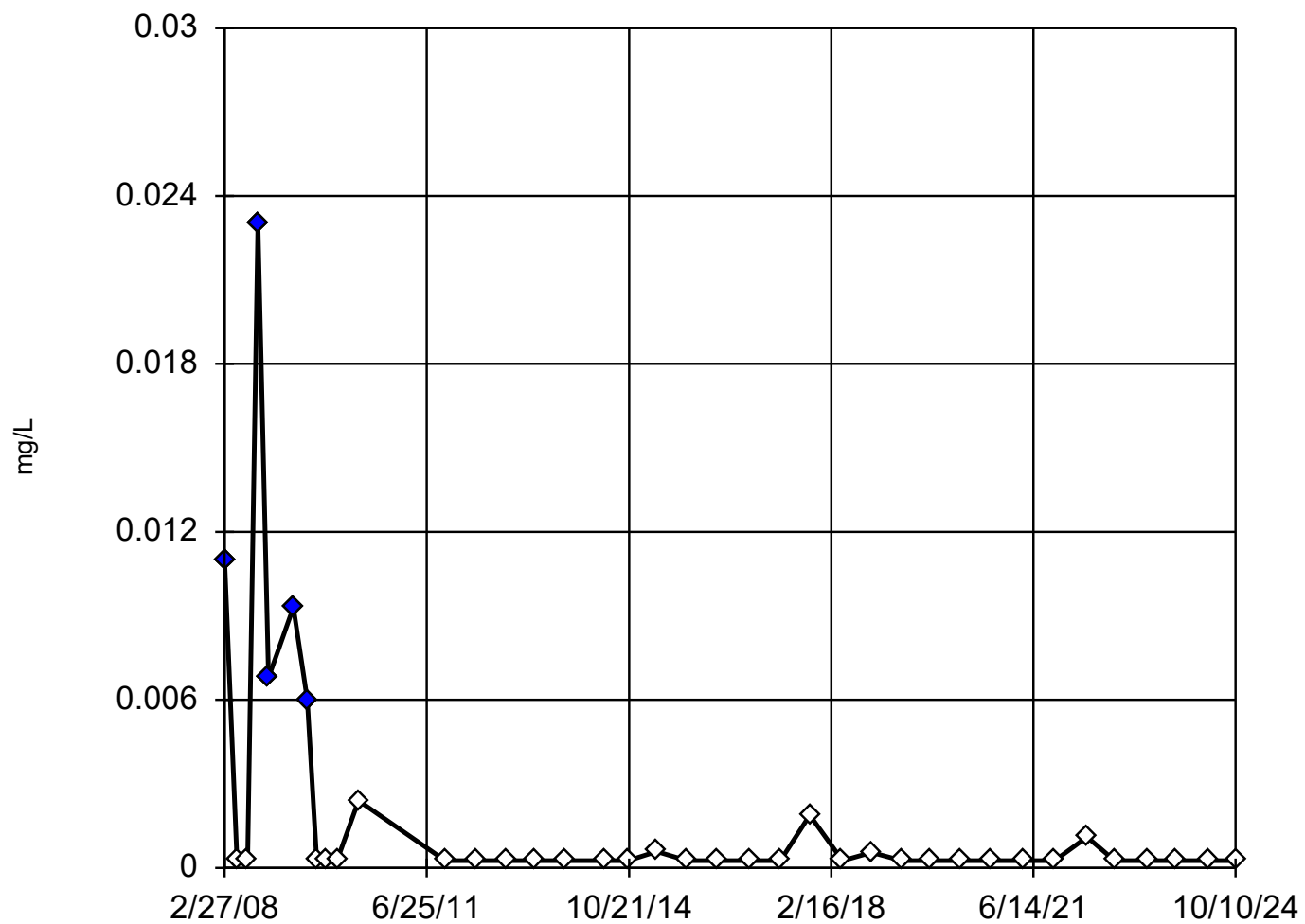
Tukey's Outlier Screening

MW-8B



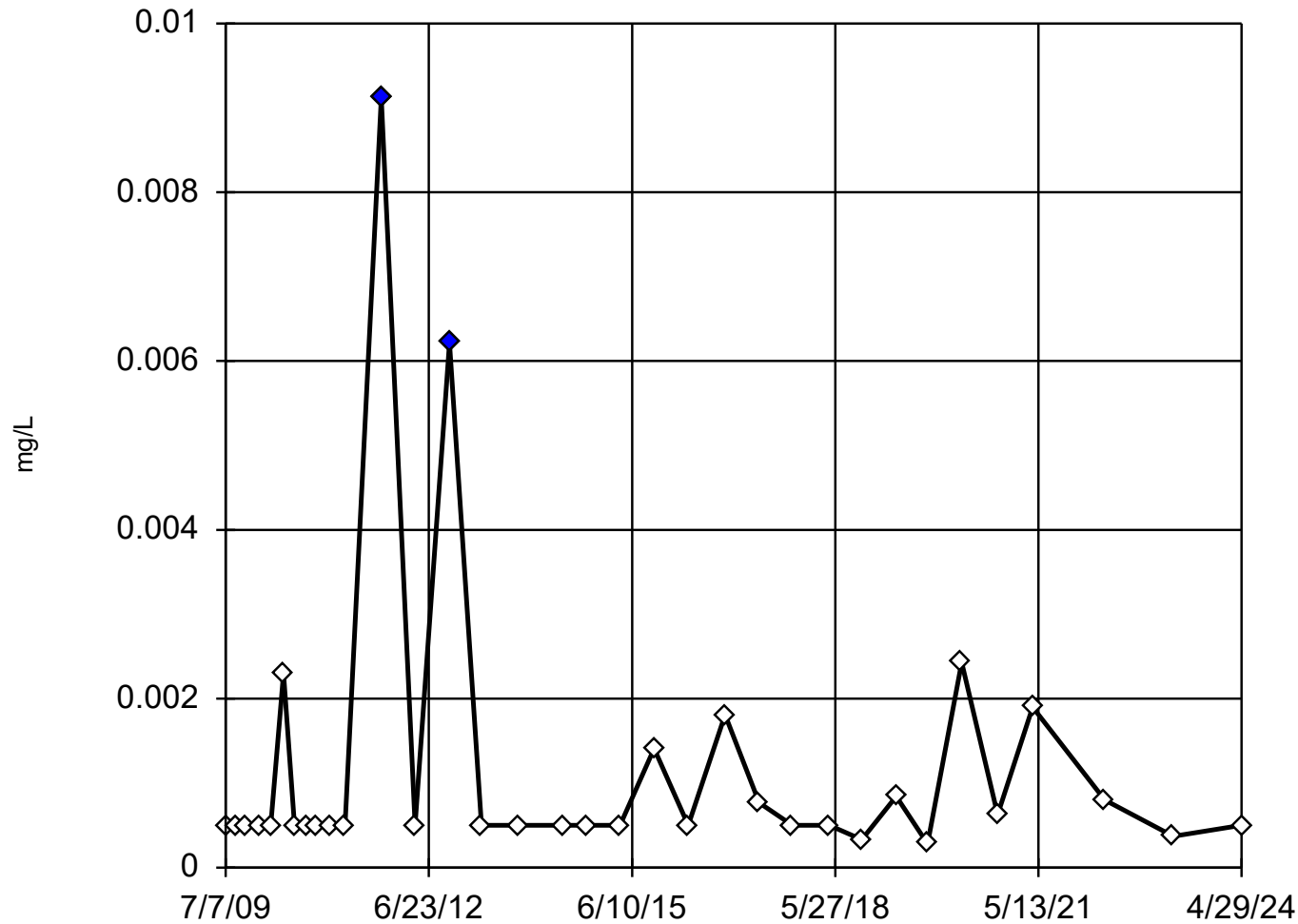
Tukey's Outlier Screening

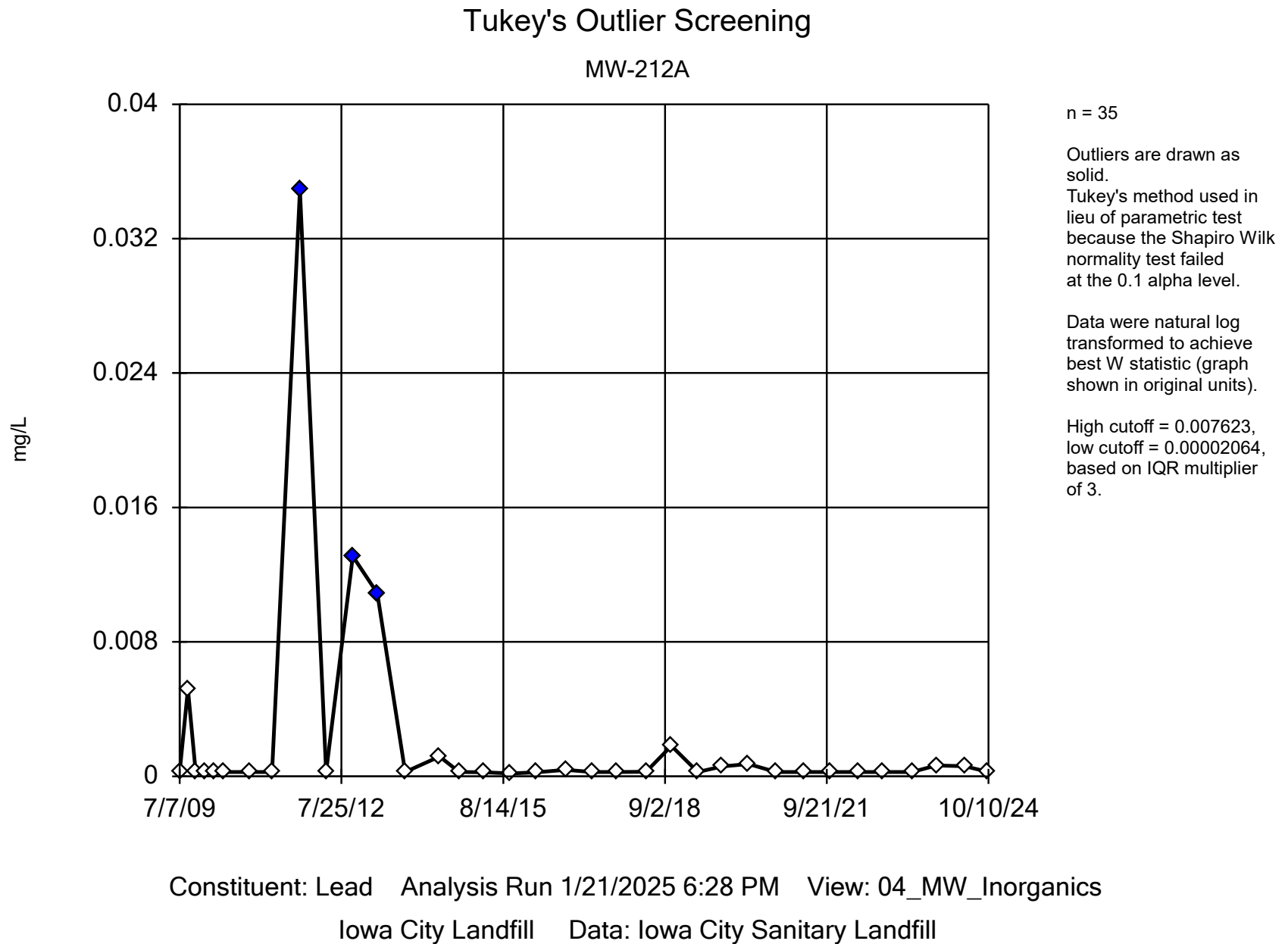
MW-11B



Tukey's Outlier Screening

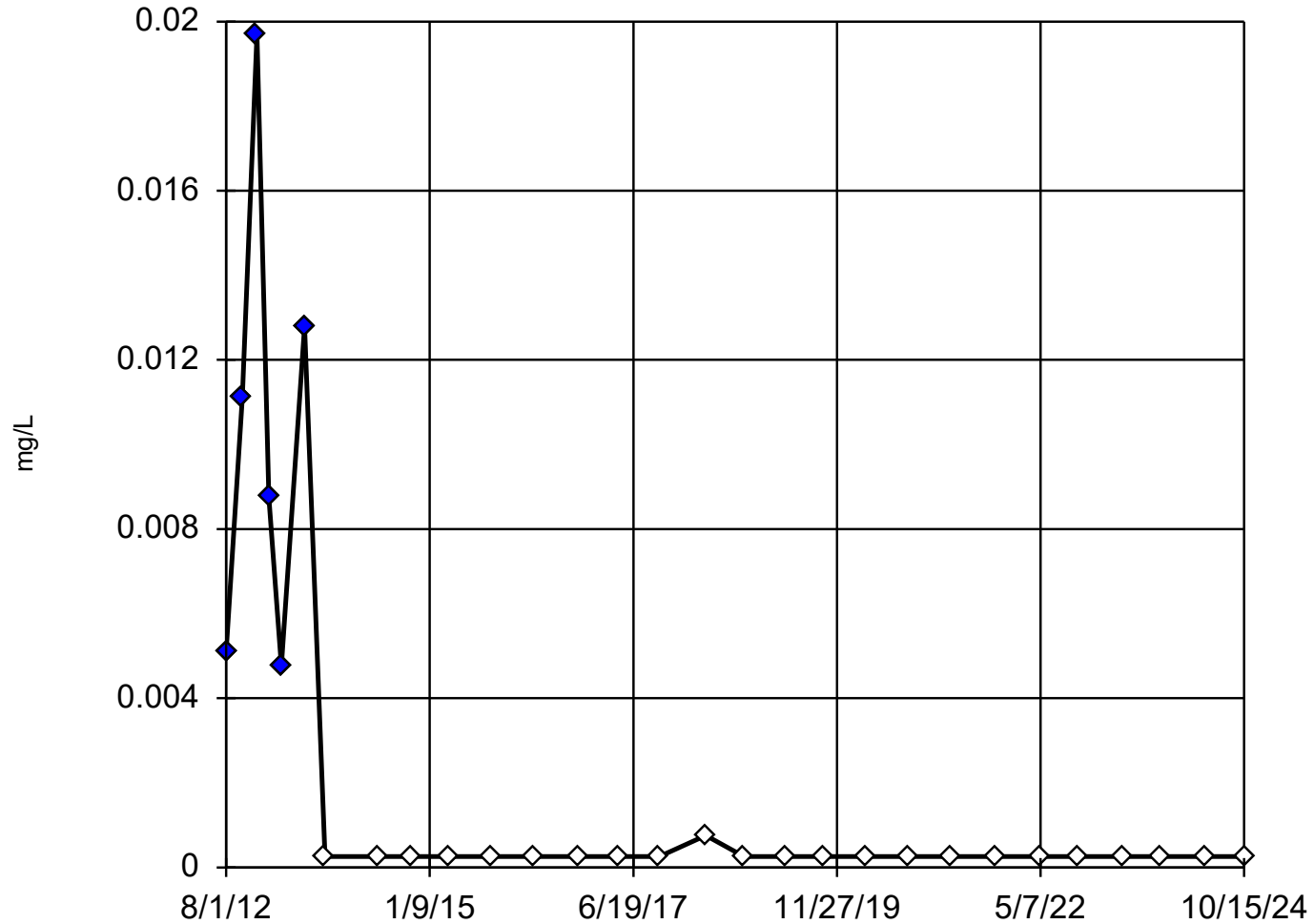
MW-210B





Tukey's Outlier Screening

MW-220A



n = 29

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

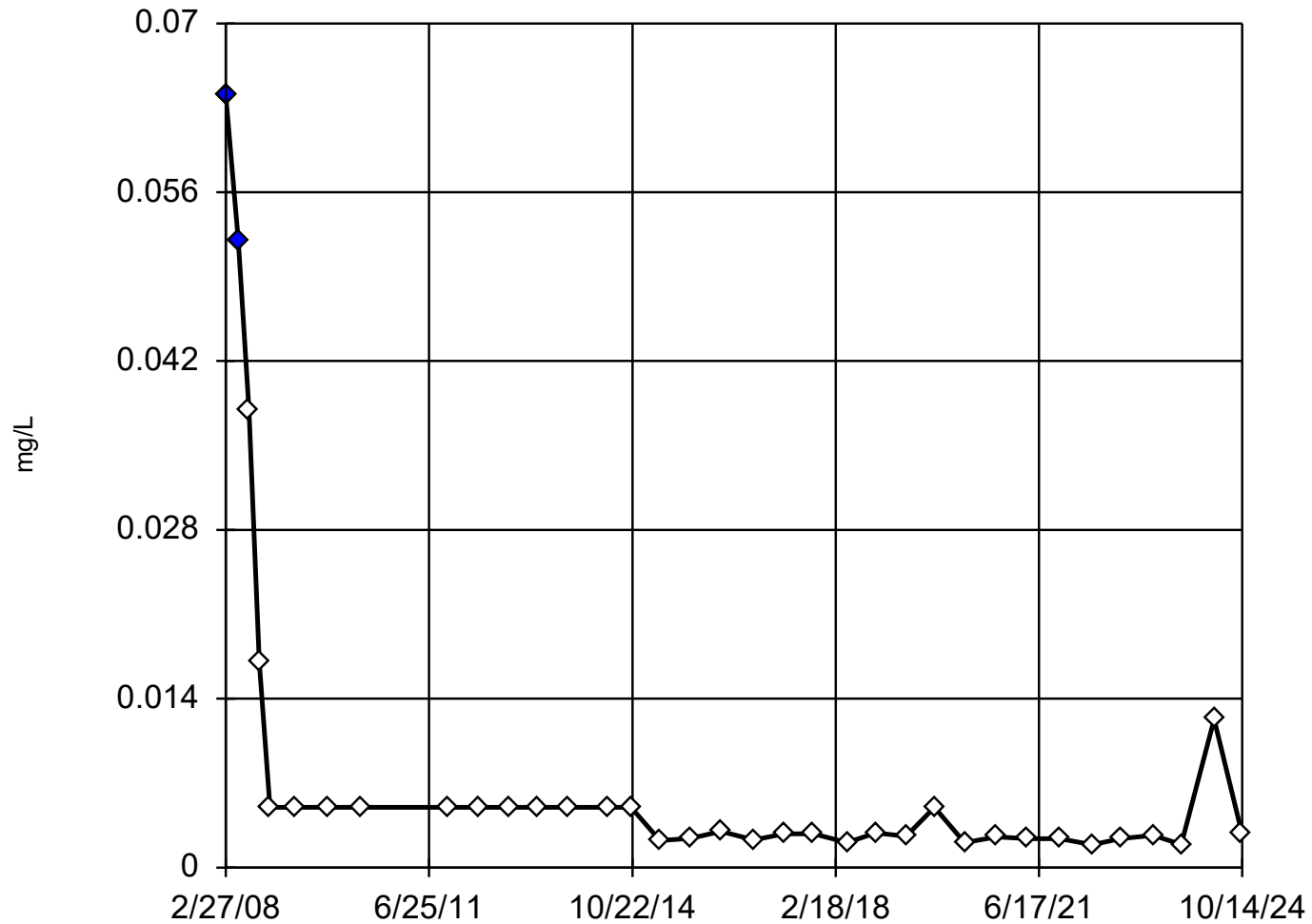
High cutoff = 0.002198,
low cutoff = 0.00005244,
based on IQR multiplier of 3.

Constituent: Lead Analysis Run 1/21/2025 6:28 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

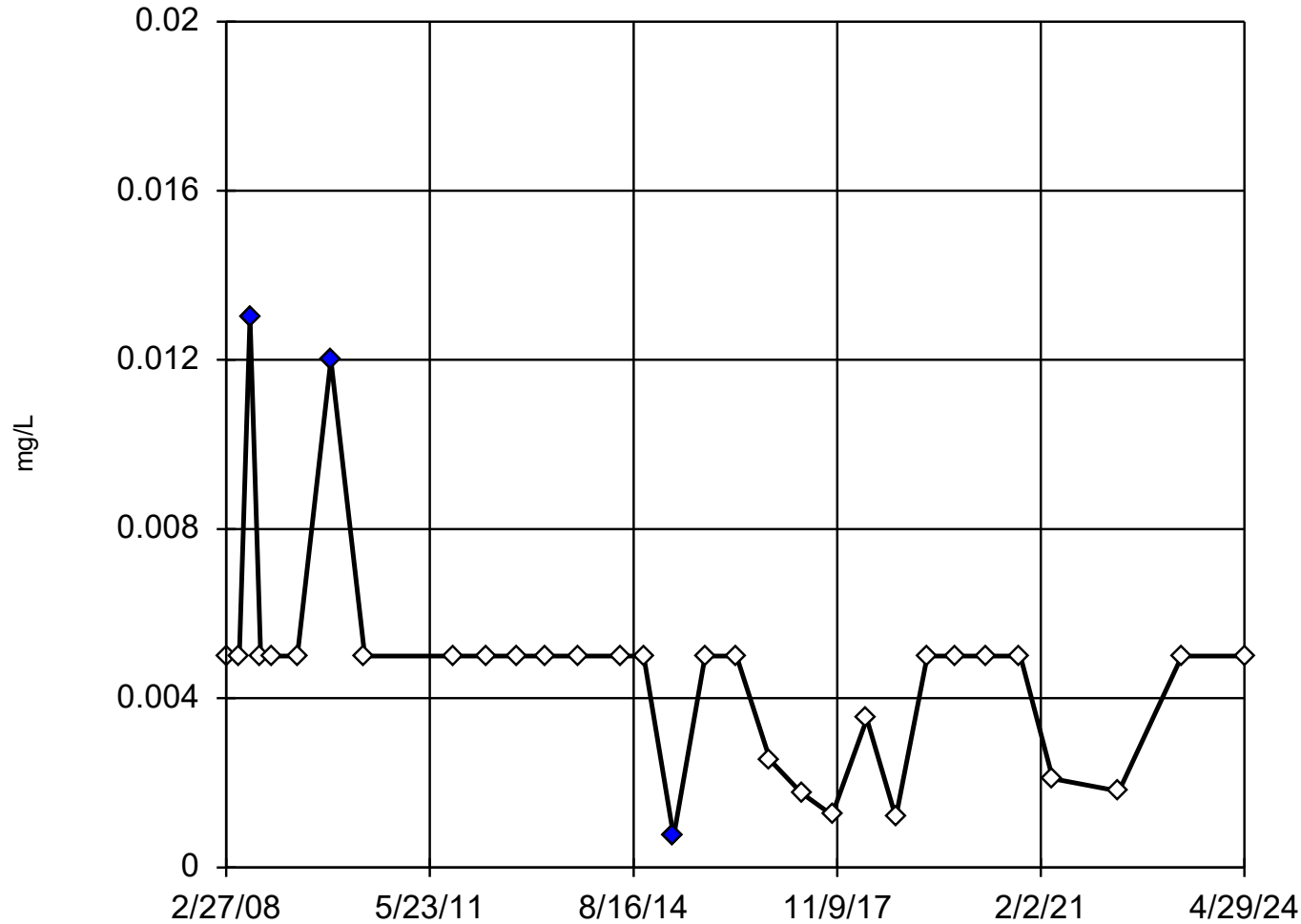
Tukey's Outlier Screening

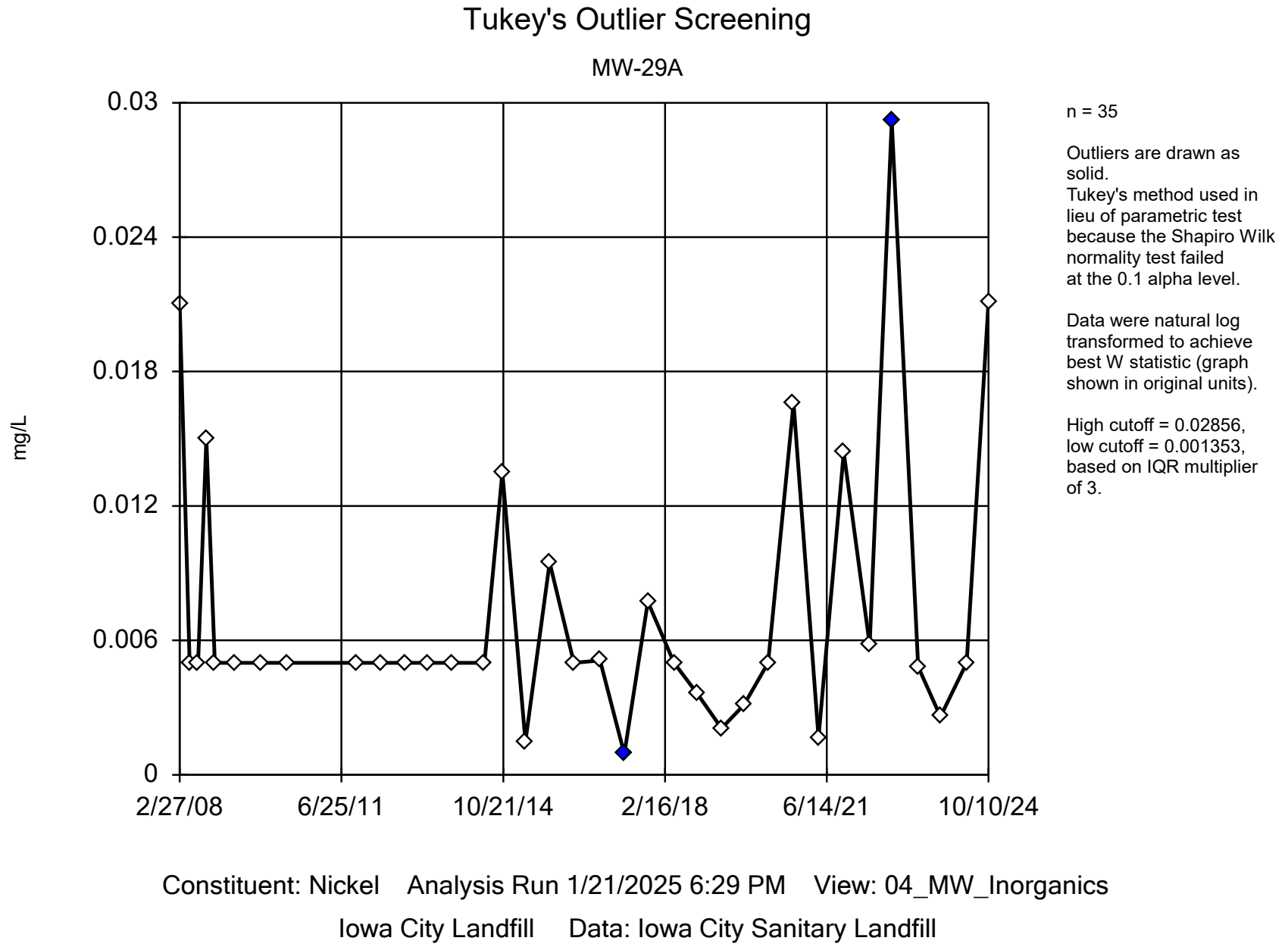
MW-1A



Tukey's Outlier Screening

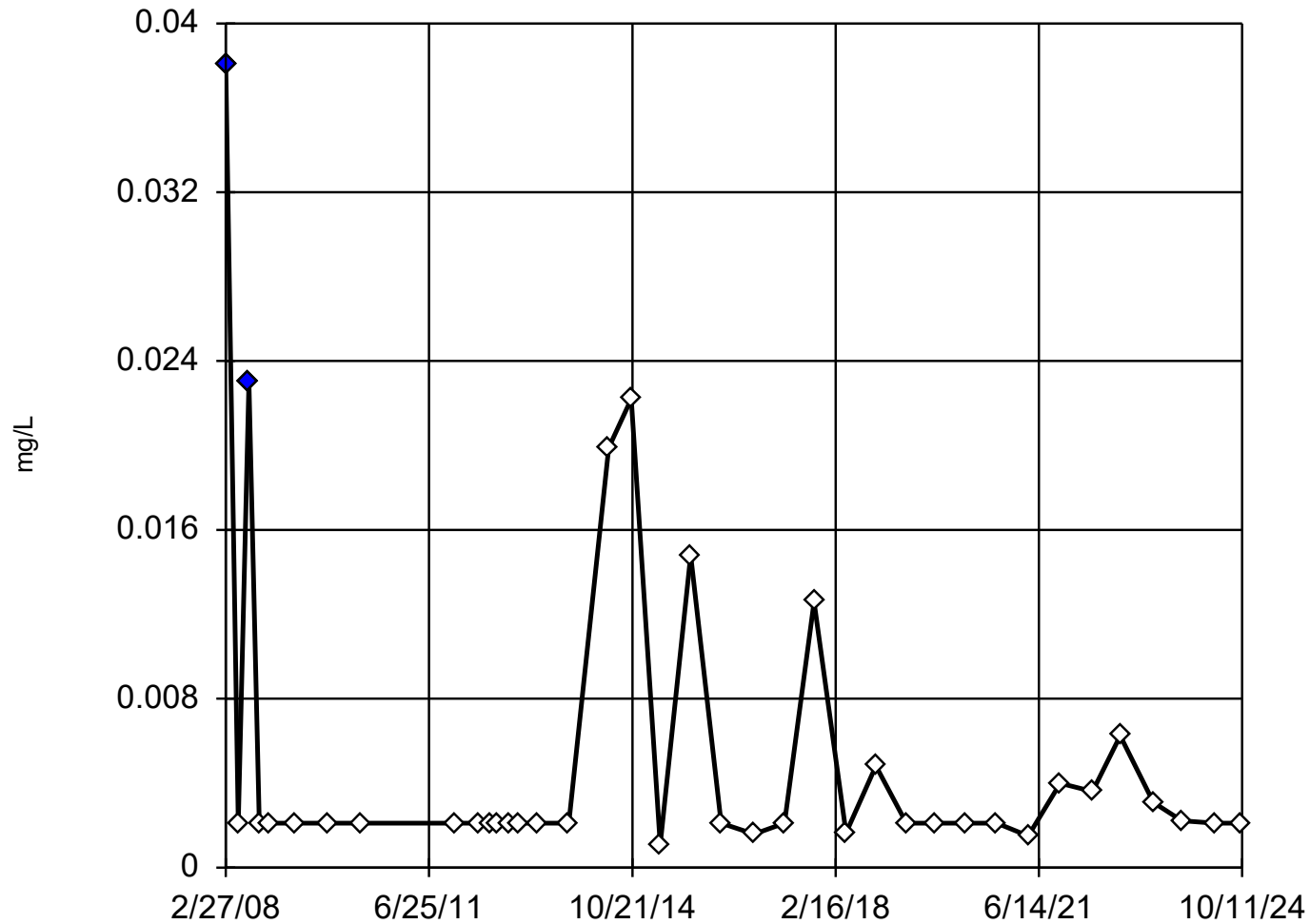
MW-23A





Tukey's Outlier Screening

MW-31B



n = 38

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

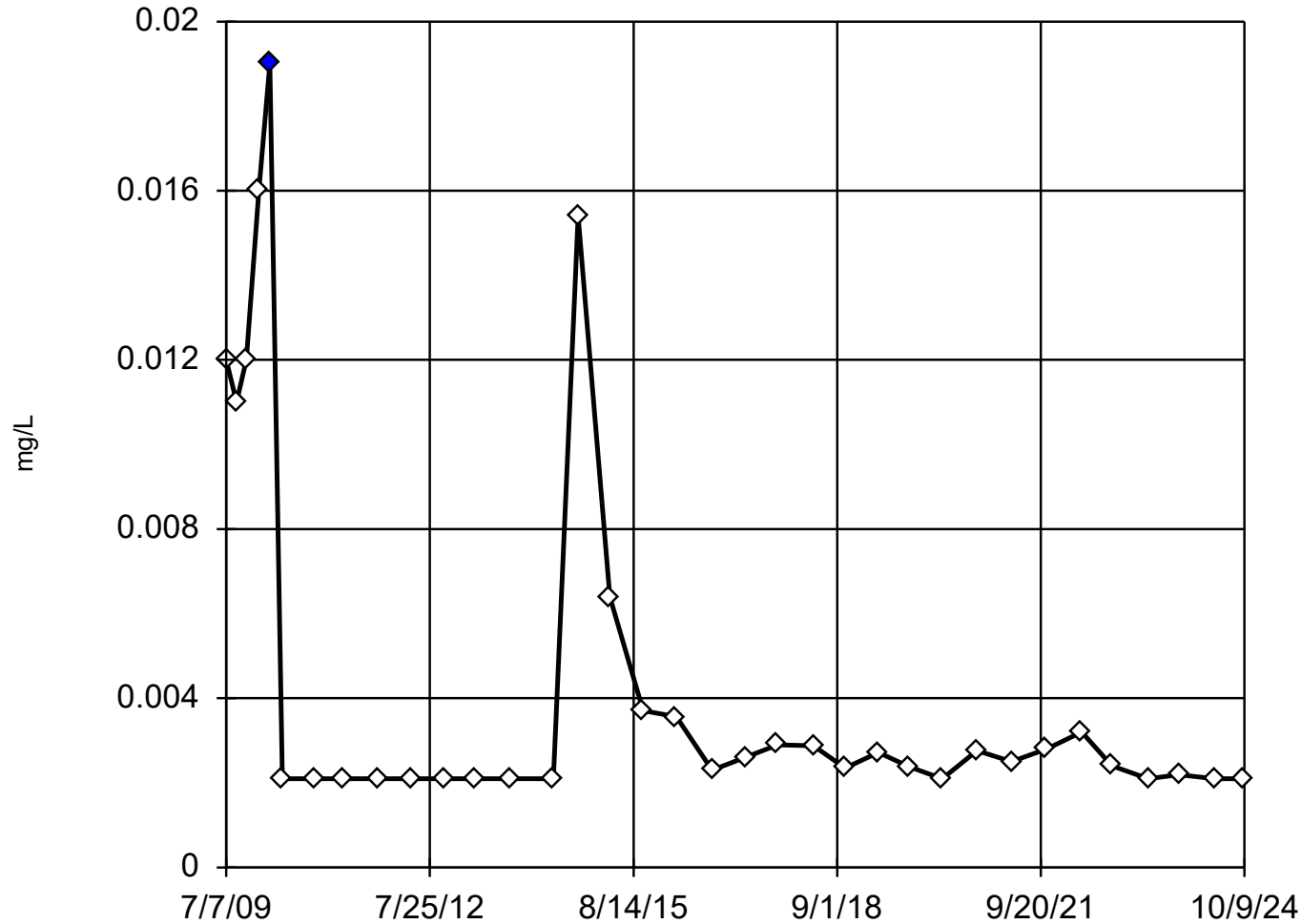
High cutoff = 0.02239,
low cutoff = 0.0003559,
based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 1/21/2025 6:29 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

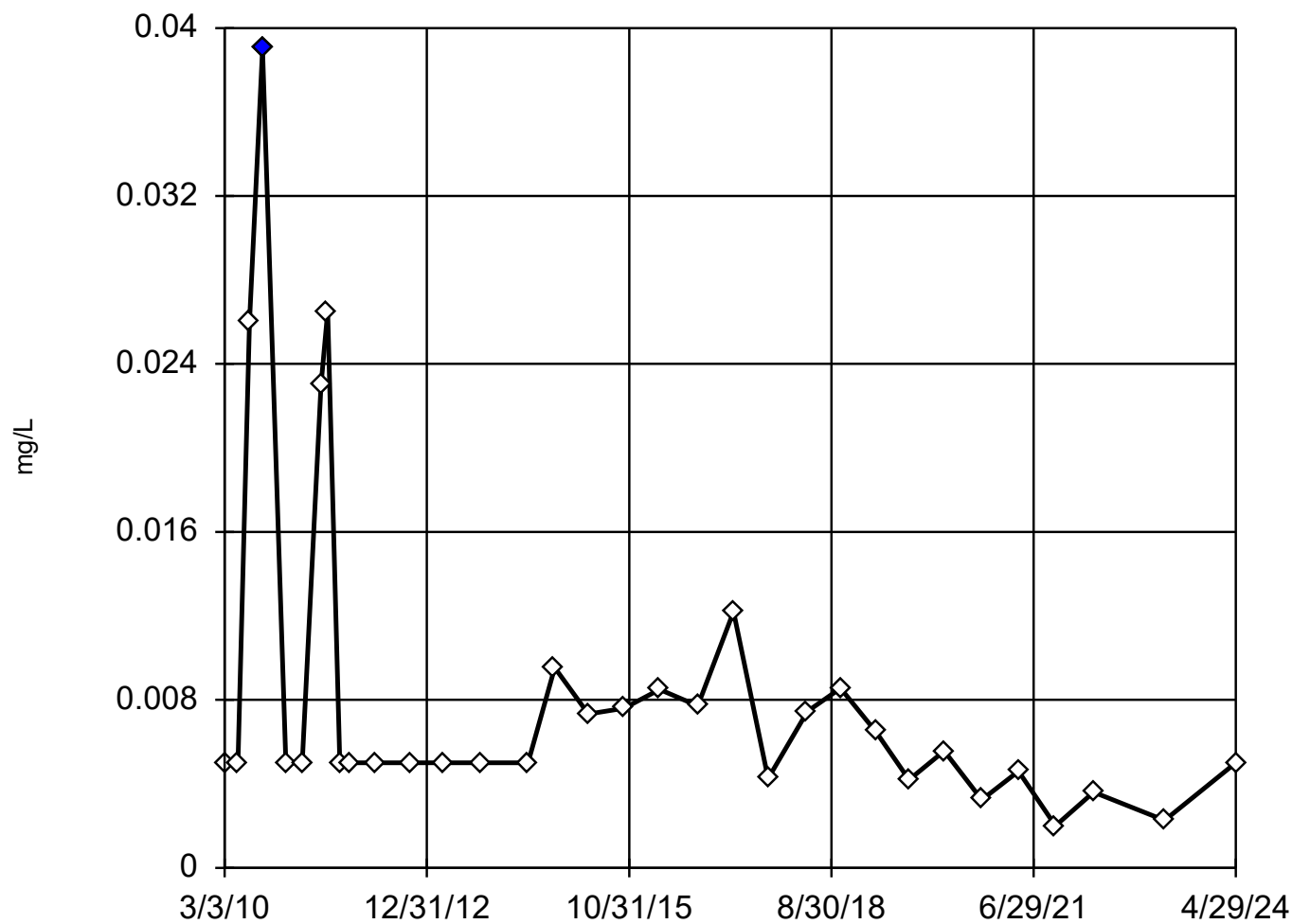
Tukey's Outlier Screening

MW-207A



Tukey's Outlier Screening

MW-213A



n = 33

Outlier is drawn as solid.
Tukey's method used in
lieu of parametric test
because the Shapiro Wilk
normality test failed
at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

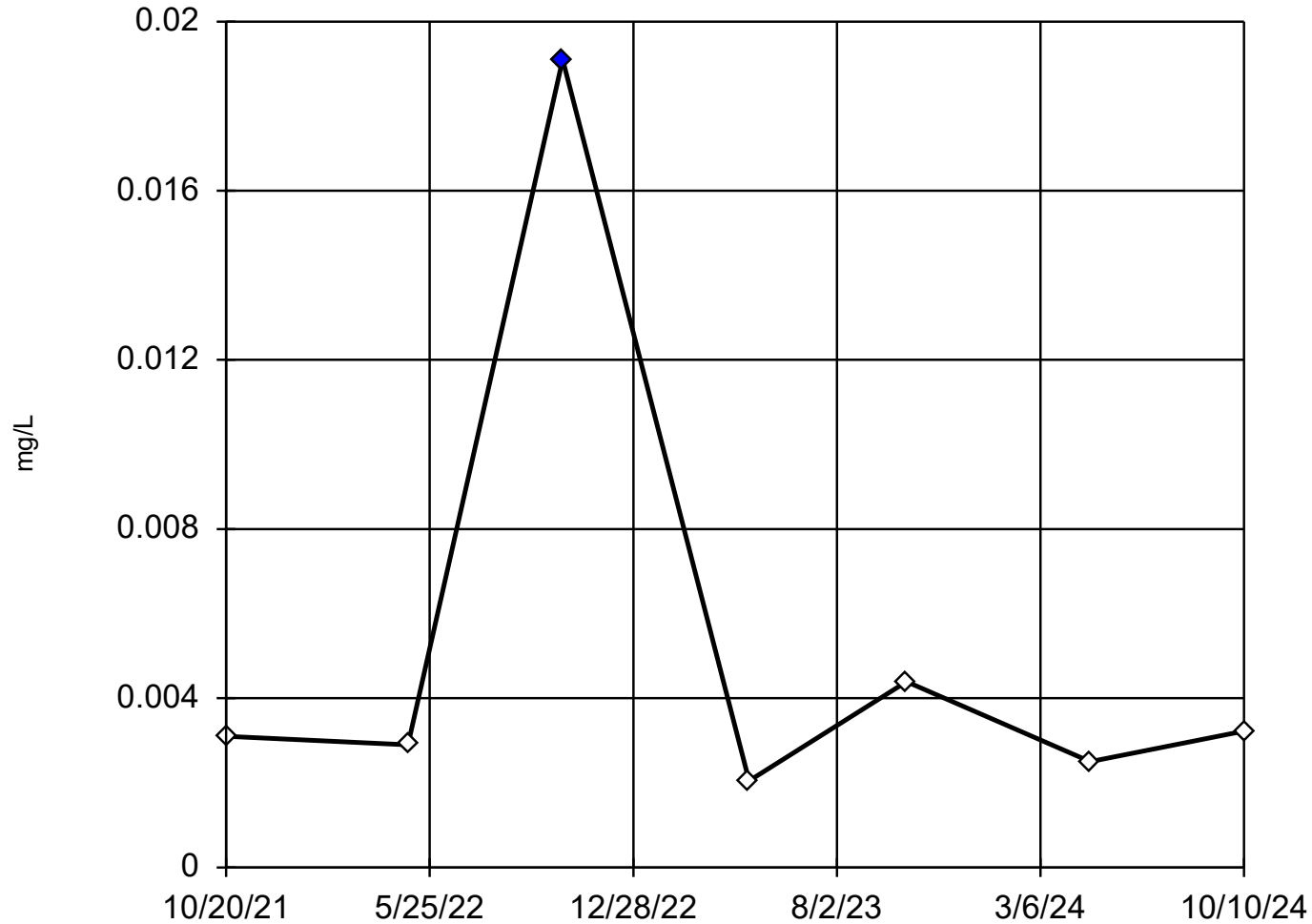
High cutoff = 0.03428,
low cutoff = 0.00118,
based on IQR multiplier
of 3.

Constituent: Nickel Analysis Run 1/21/2025 6:29 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Dixon's Outlier Test

MW-408



n = 7

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 0.005323.
Std. Dev. = 0.006118.
0.0191: c = 0.8628
tab1 = 0.507.
Alpha = 0.05.

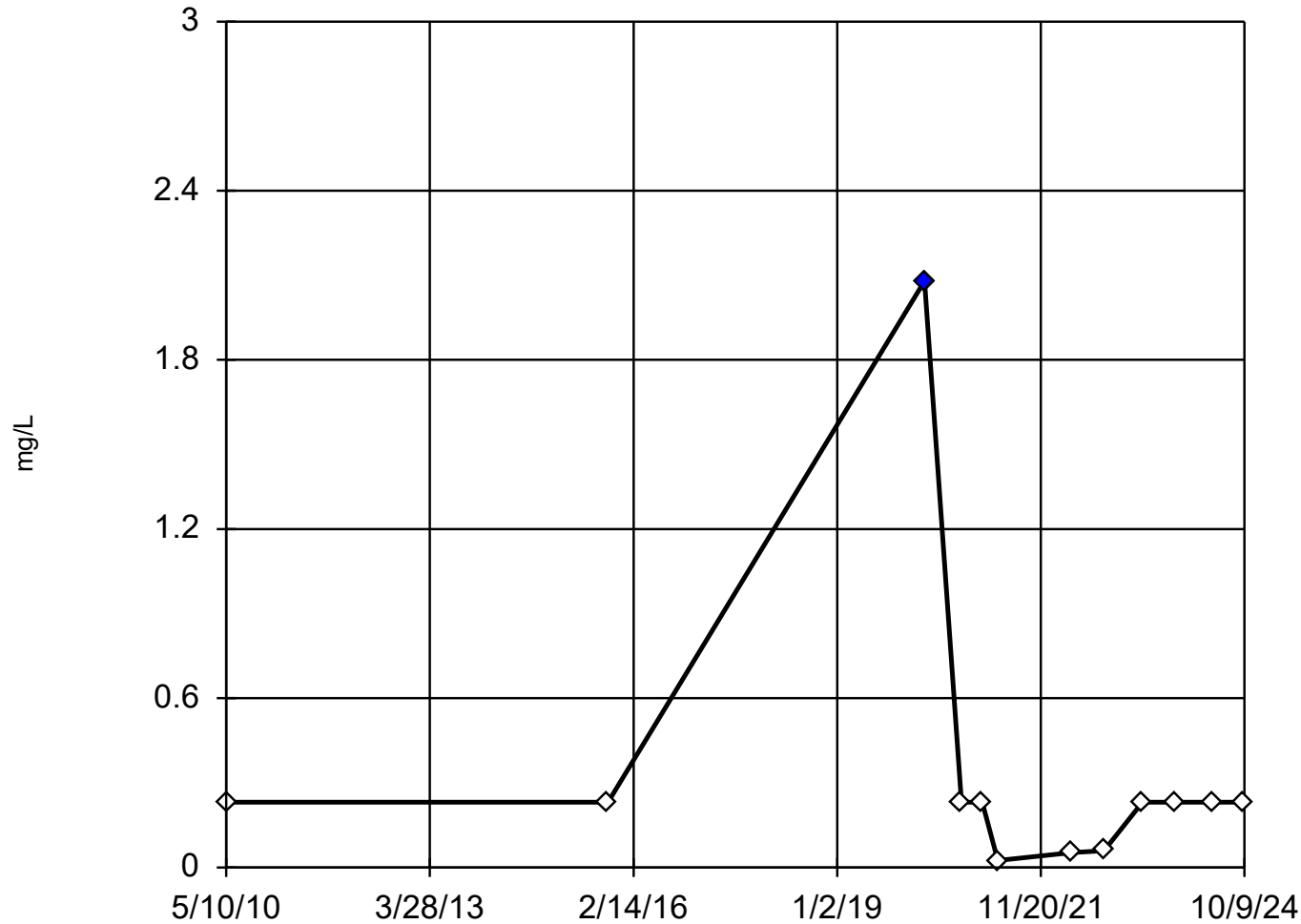
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9444
Critical = 0.826
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Nickel Analysis Run 1/21/2025 6:29 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-207A



n = 12

Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

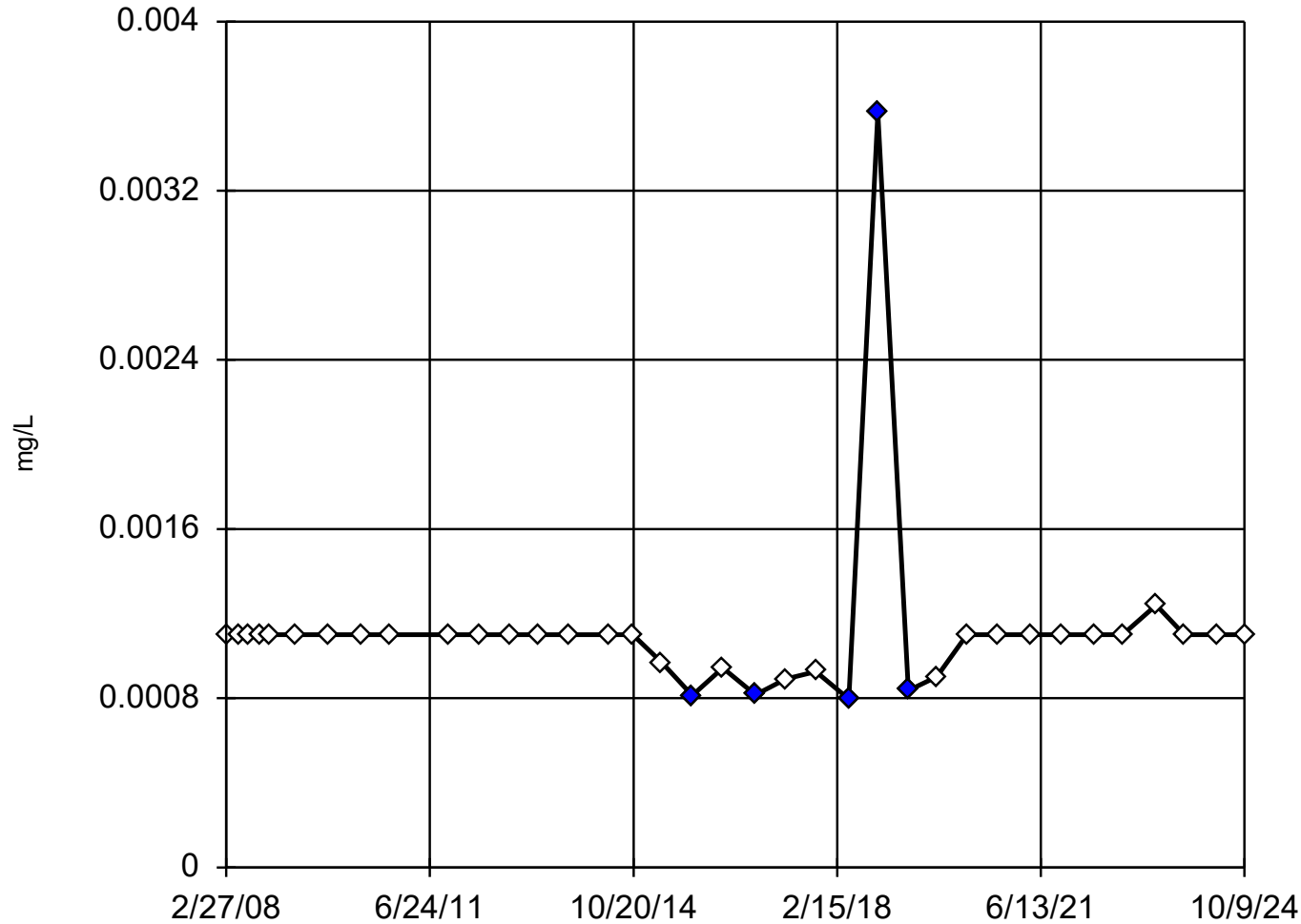
High cutoff = 1.79, low cutoff = 0.01507, based on IQR multiplier of 3.

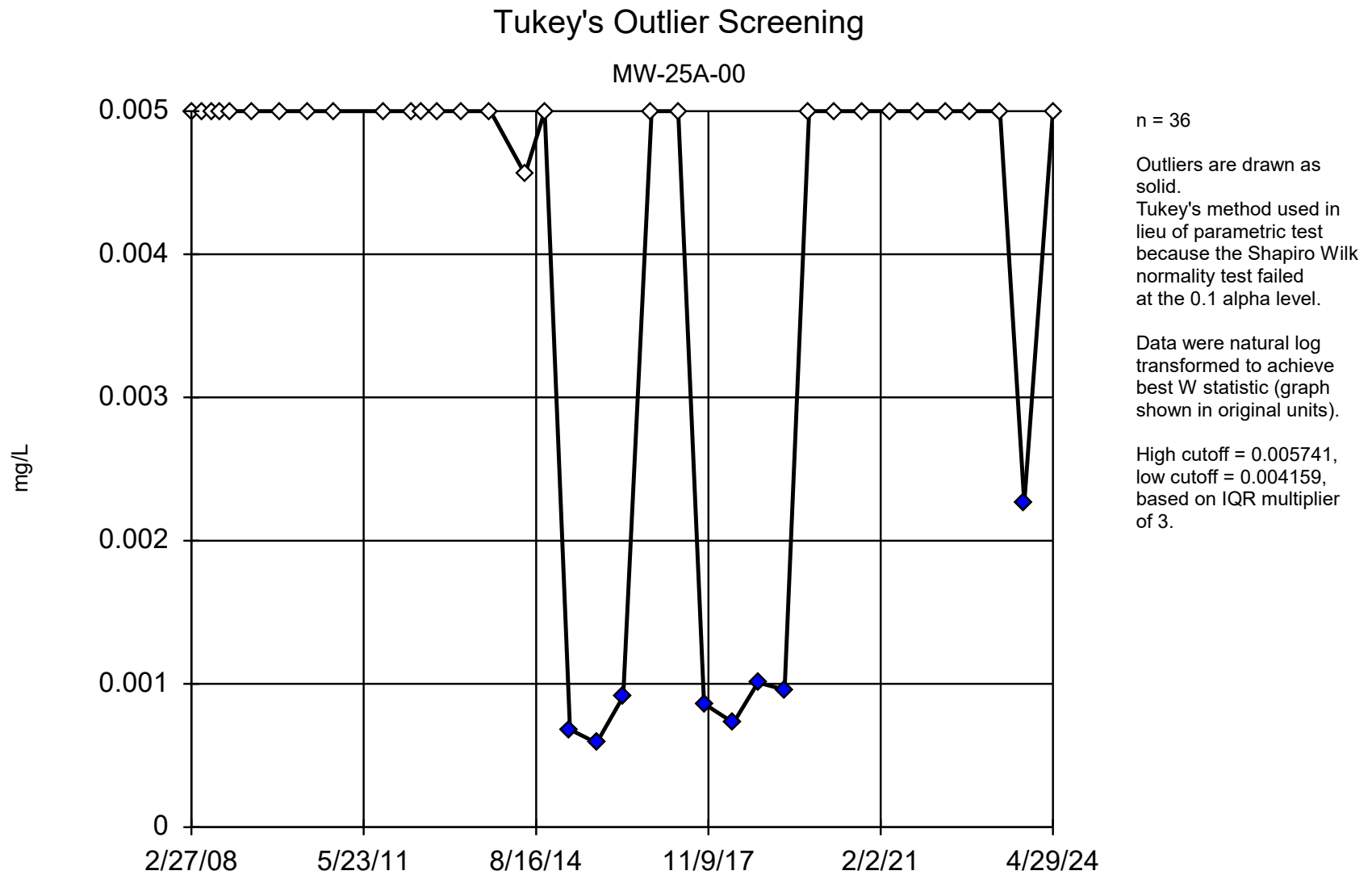
Constituent: Sulfide Analysis Run 1/21/2025 6:31 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

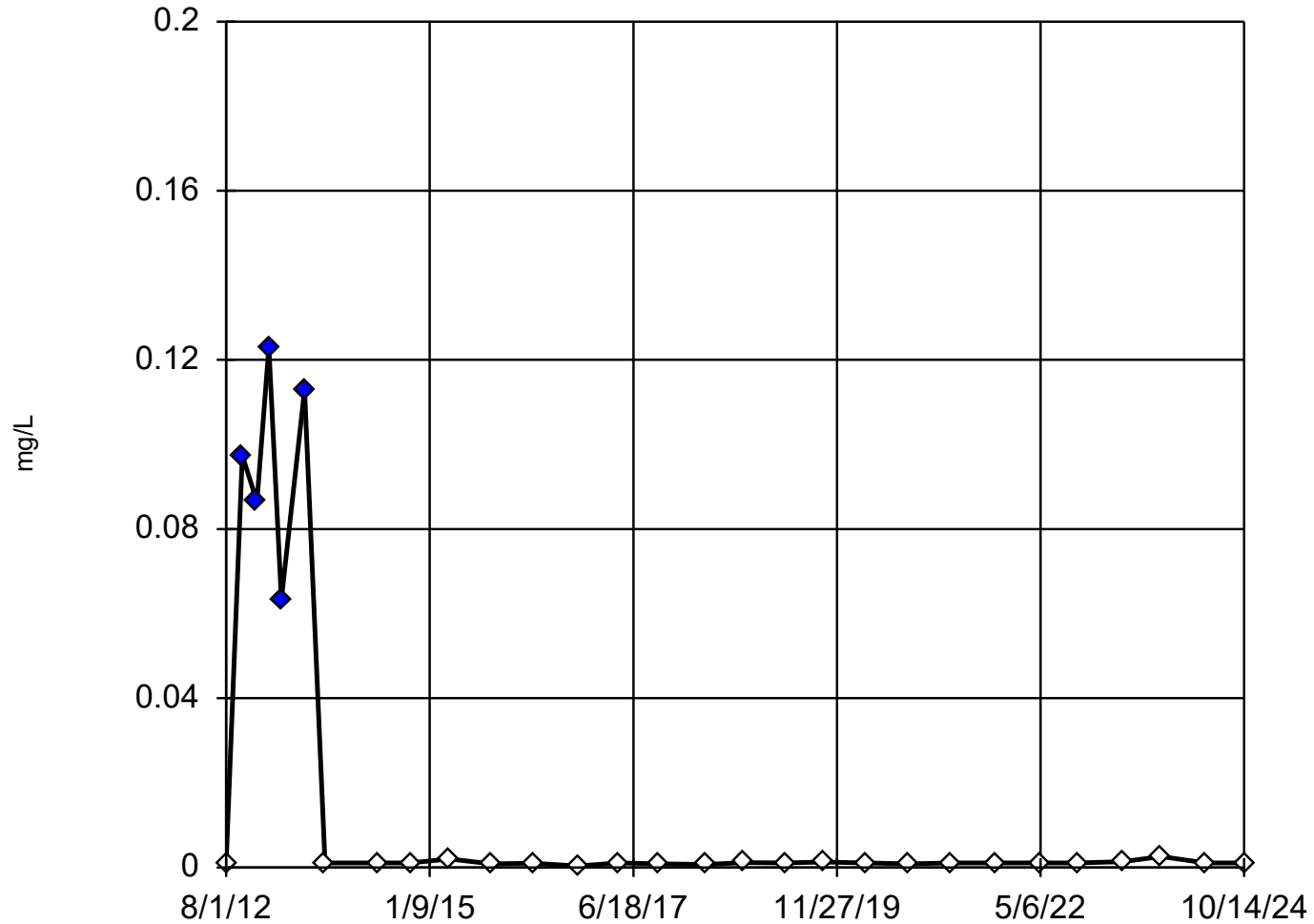
MW-6B





Tukey's Outlier Screening

MW-216A



n = 29

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

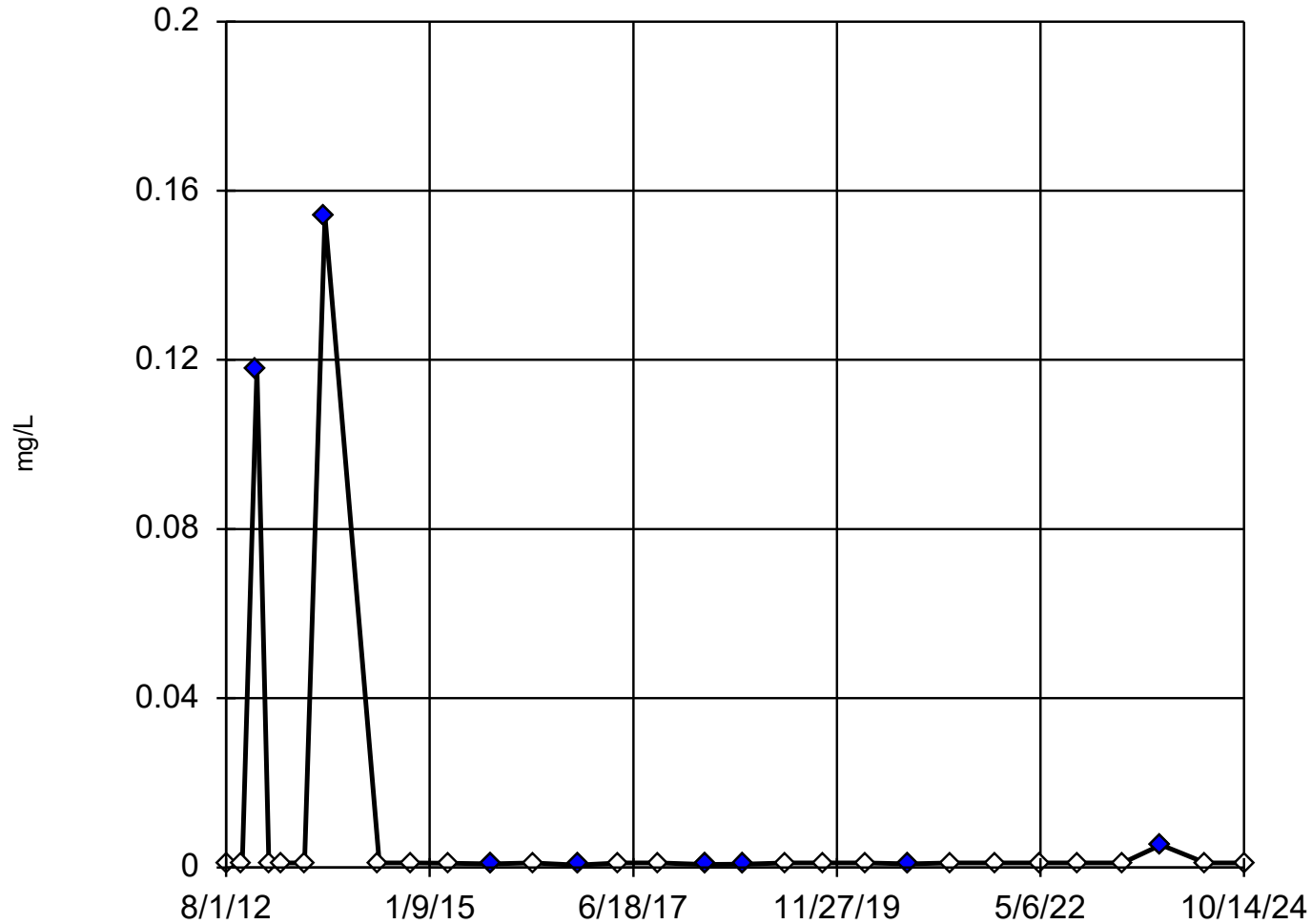
High cutoff = 0.00611,
low cutoff = 0.0002919,
based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 1/21/2025 6:34 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-217A



n = 29

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

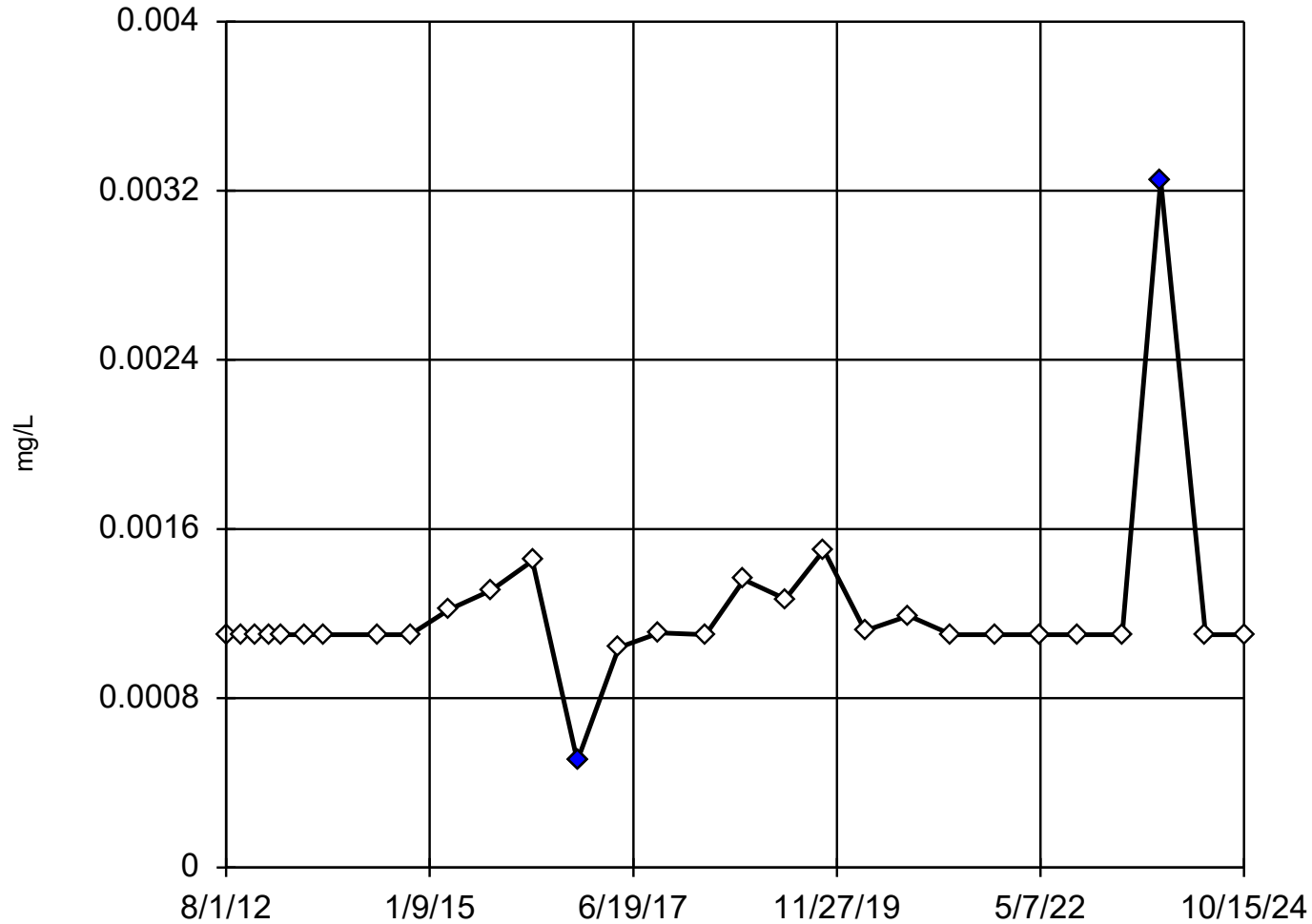
High cutoff = 0.001265,
low cutoff = 0.0009131,
based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 1/21/2025 6:34 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

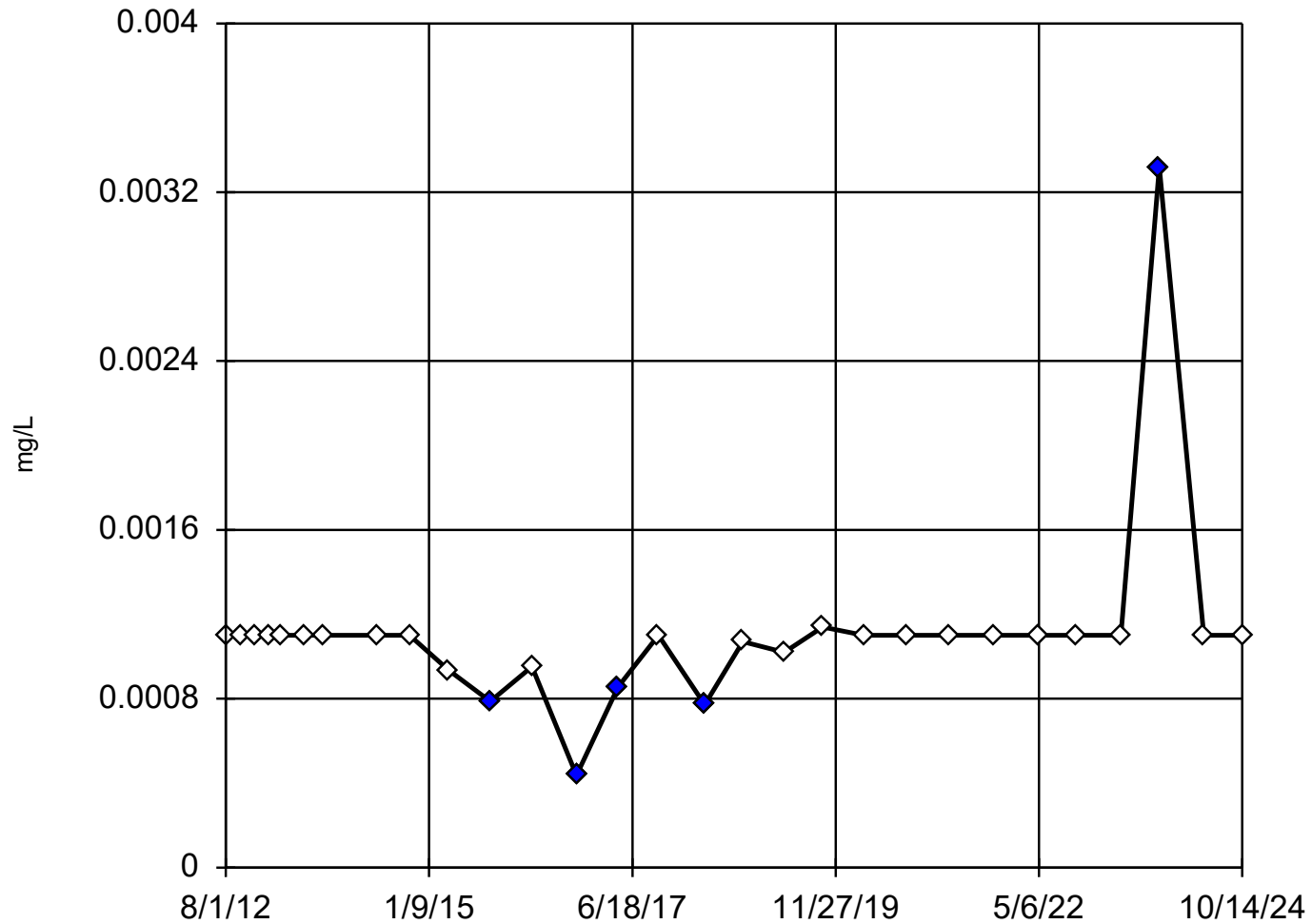
Tukey's Outlier Screening

MW-218A



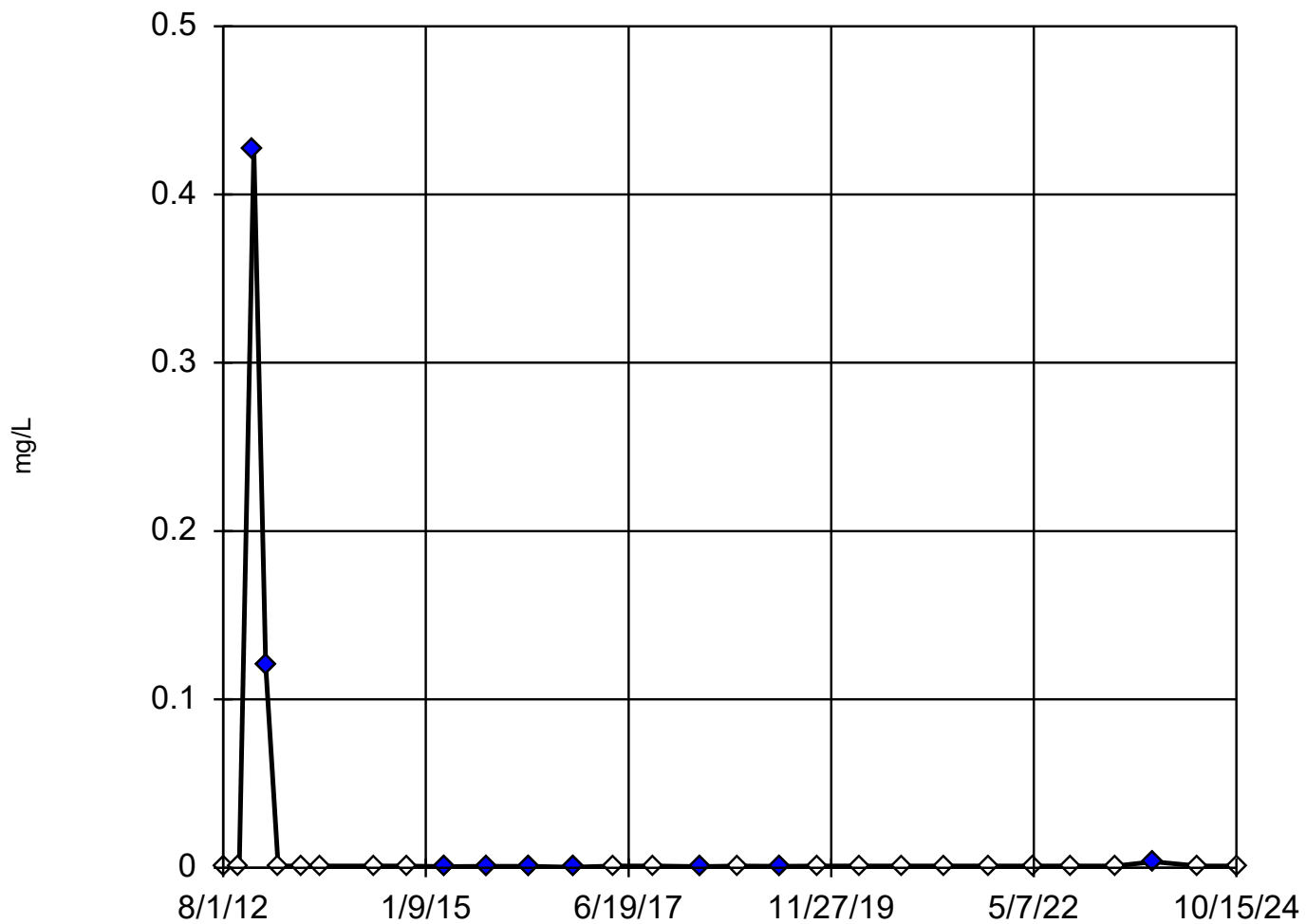
Tukey's Outlier Screening

MW-219A



Tukey's Outlier Screening

MW-220A



n = 29

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

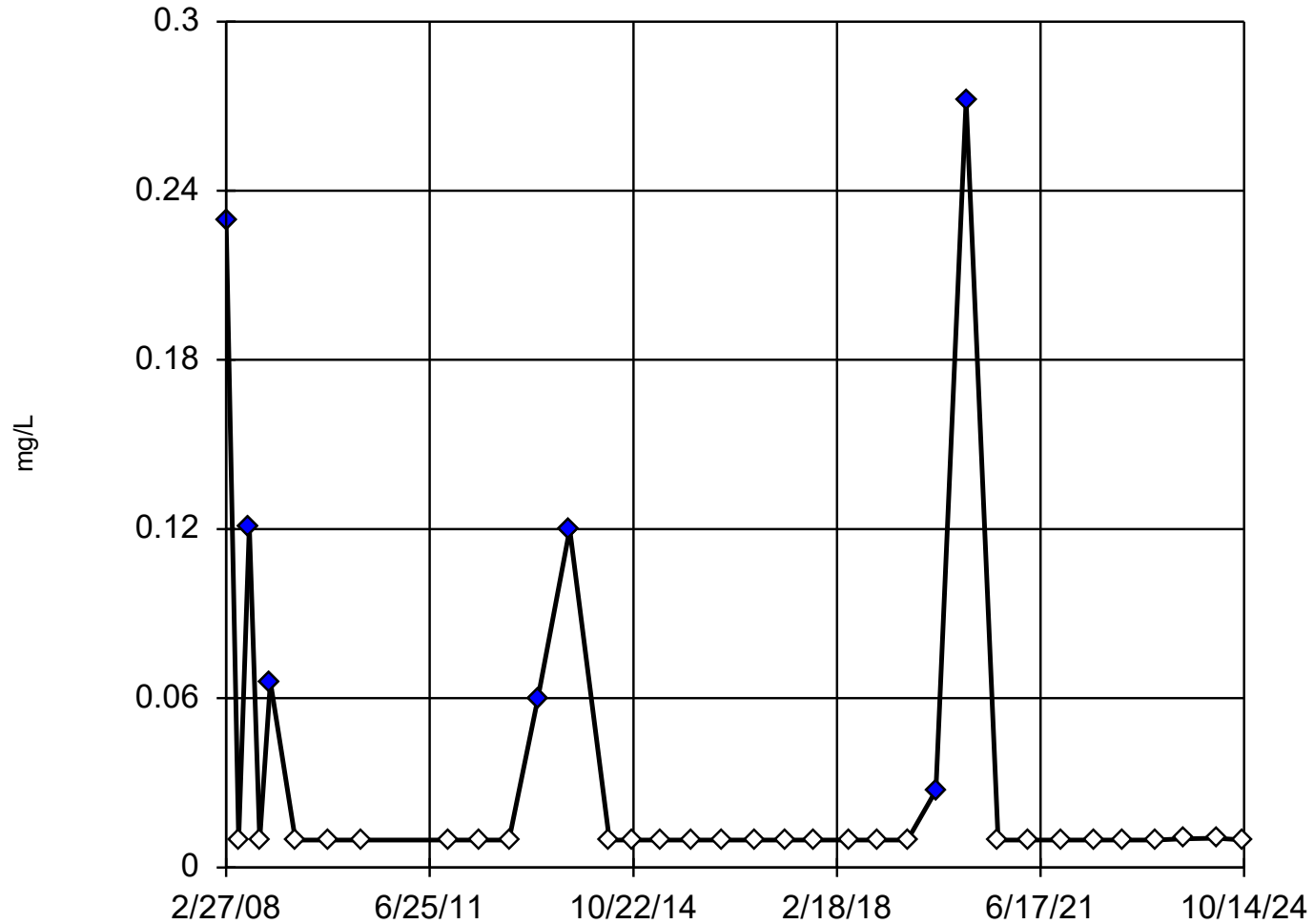
High cutoff = 0.001155,
low cutoff = 0.001031,
based on IQR multiplier
of 3.

Constituent: Vanadium Analysis Run 1/21/2025 6:34 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

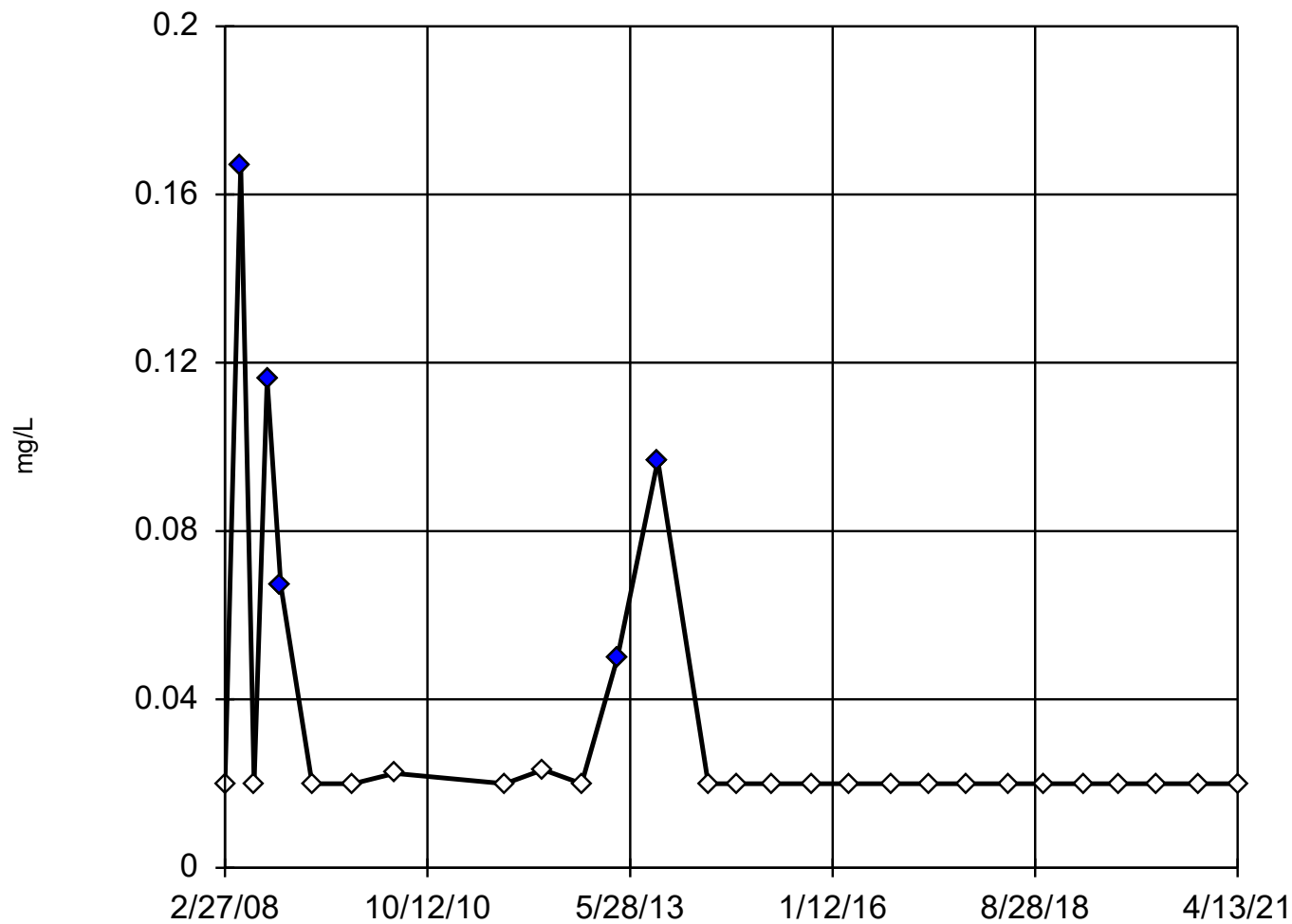
Tukey's Outlier Screening

MW-1A



Tukey's Outlier Screening

MW-7B1



n = 28

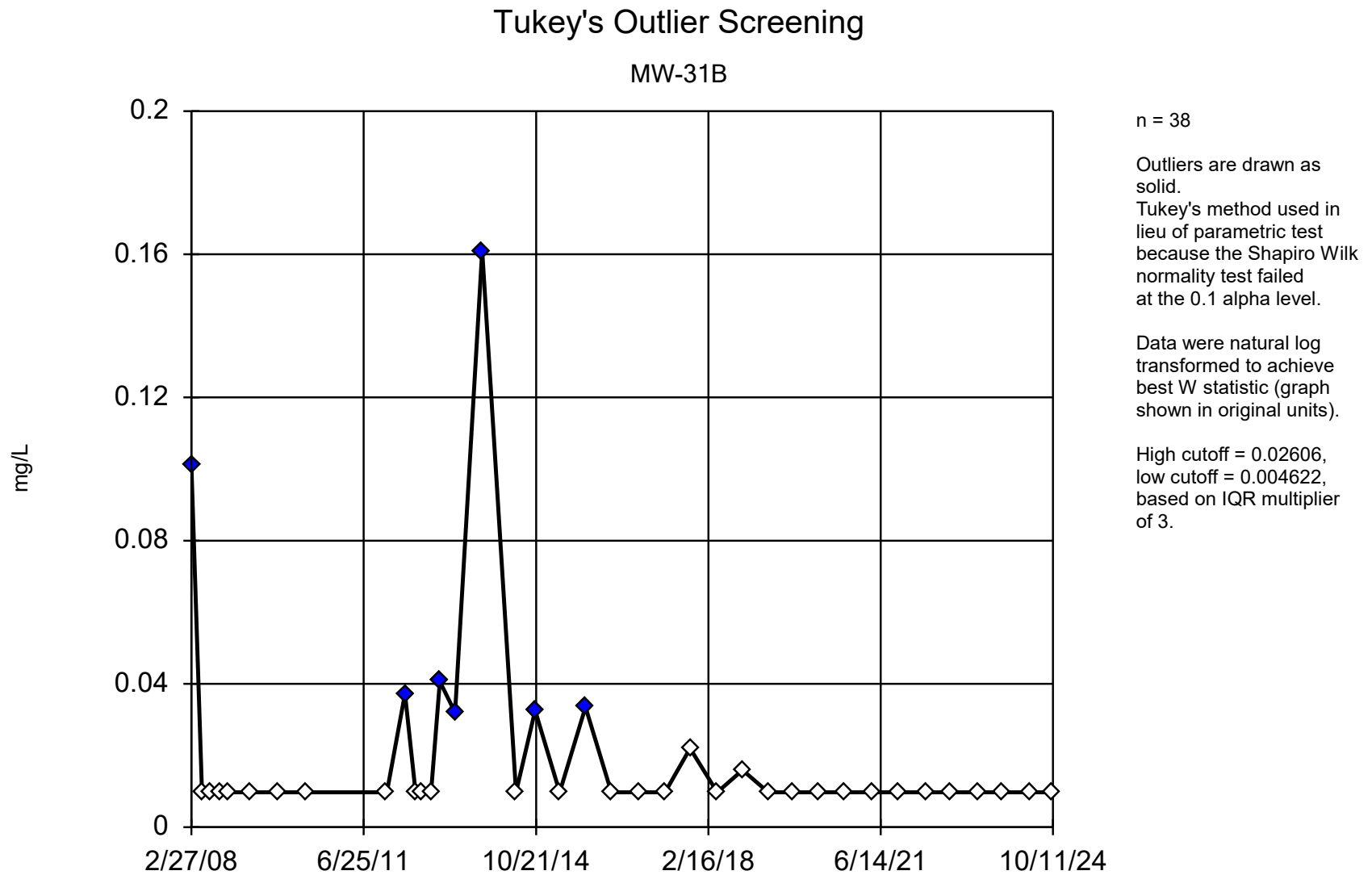
Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.02509,
low cutoff = 0.01687,
based on IQR multiplier
of 3.

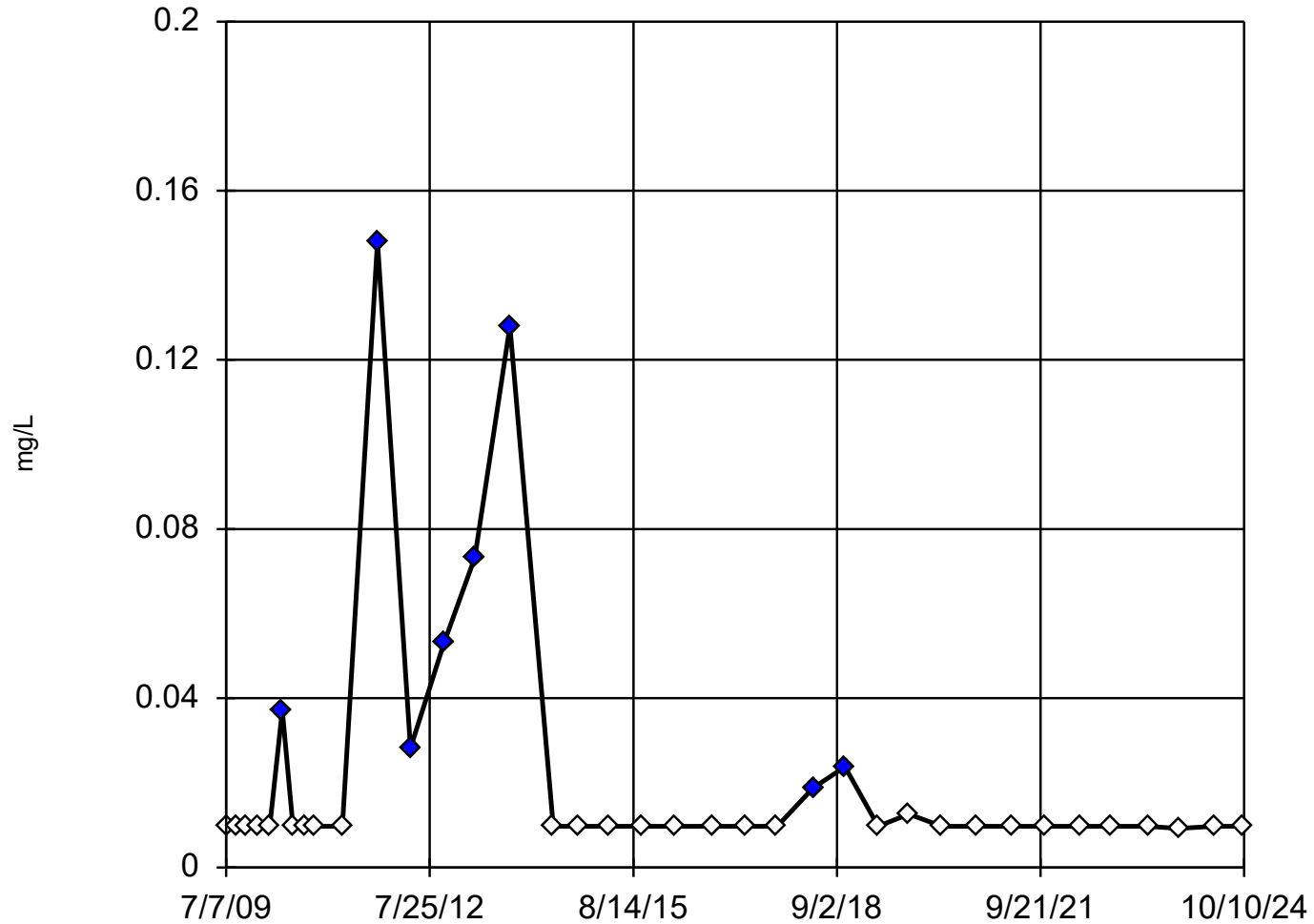
Constituent: Zinc Analysis Run 1/21/2025 6:34 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill



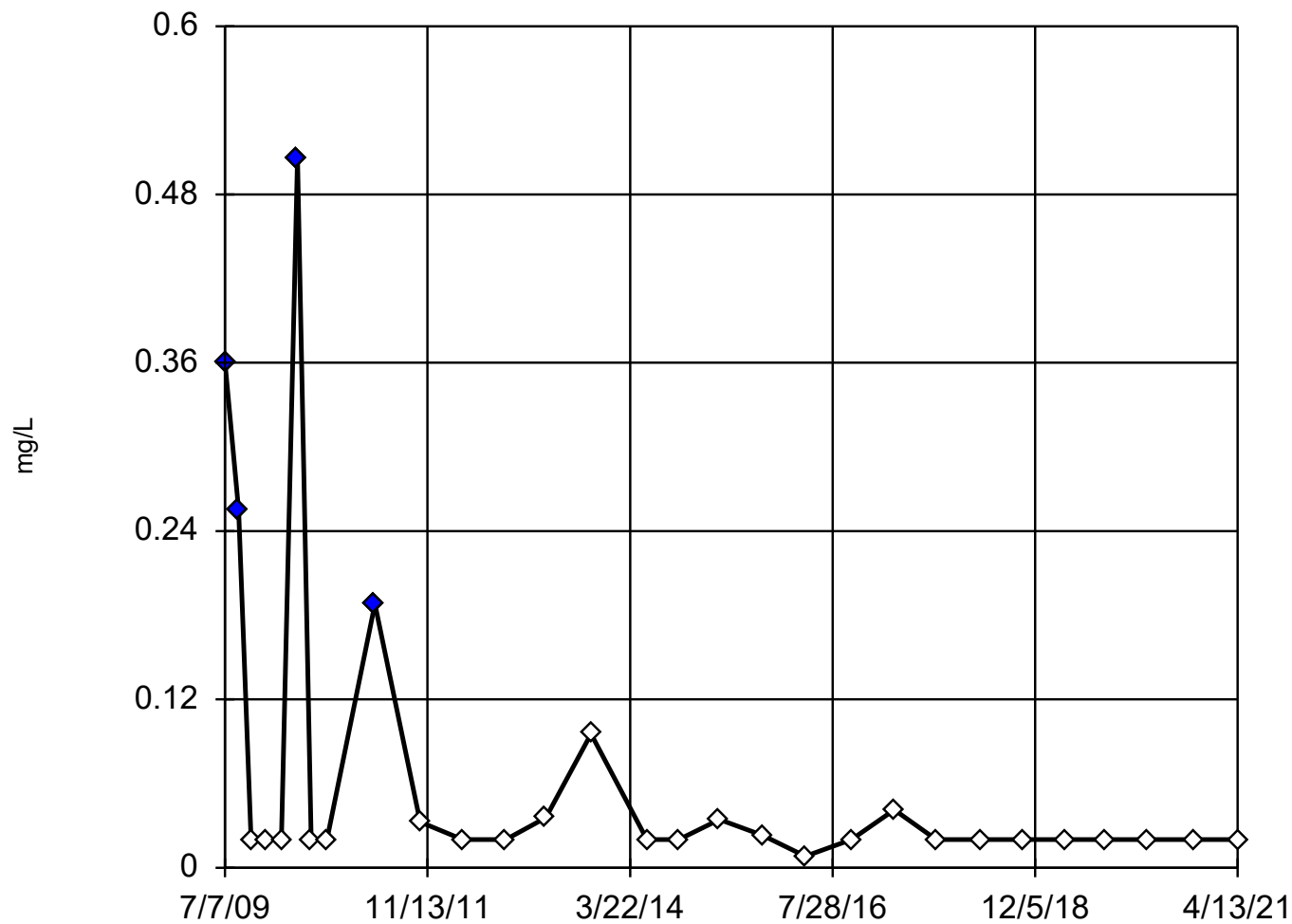
Tukey's Outlier Screening

MW-212A



Tukey's Outlier Screening

MW-214A



n = 29

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

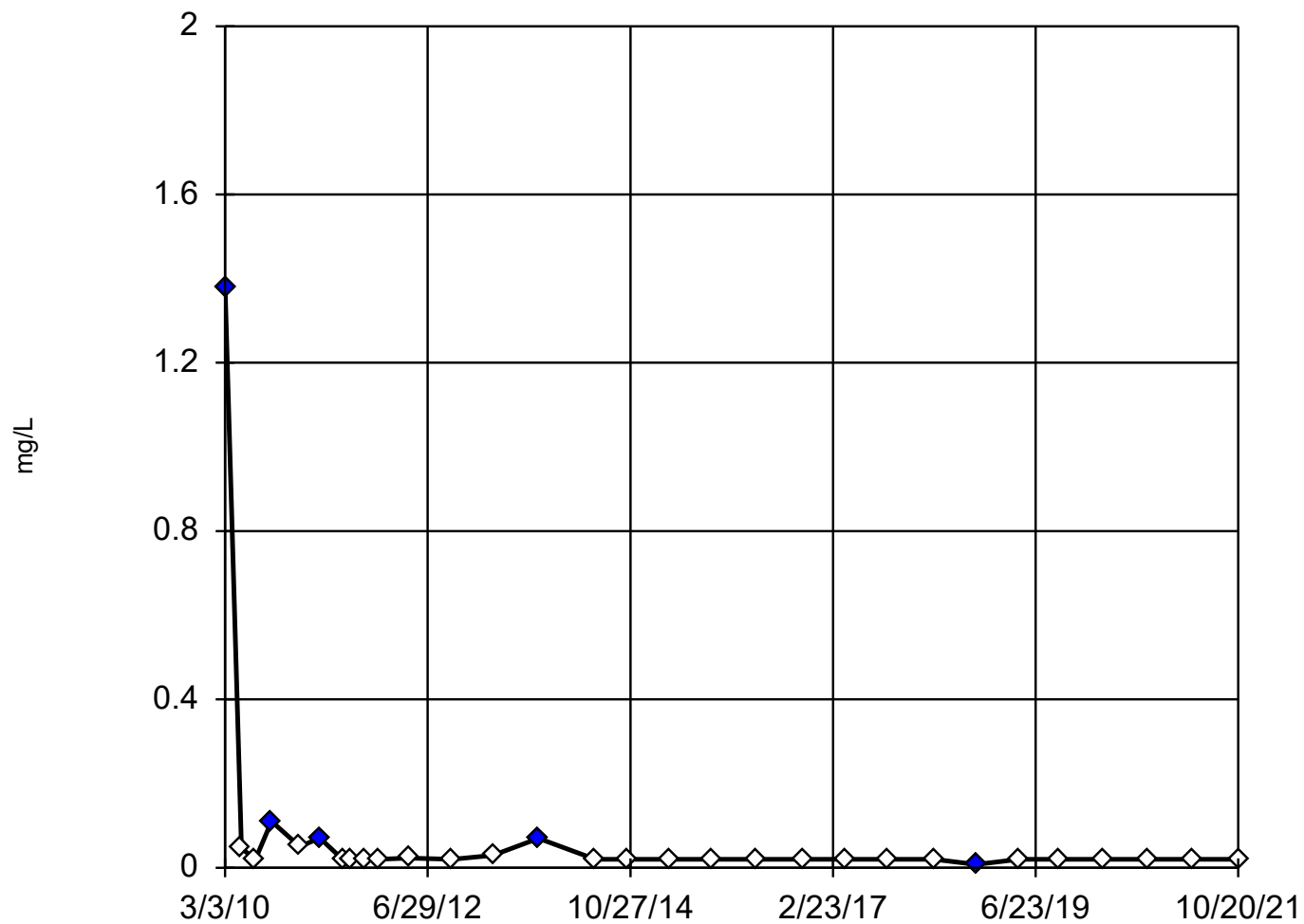
High cutoff = 0.1874,
low cutoff = 0.003734,
based on IQR multiplier
of 3.

Constituent: Zinc Analysis Run 1/21/2025 6:34 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-200A



n = 30

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

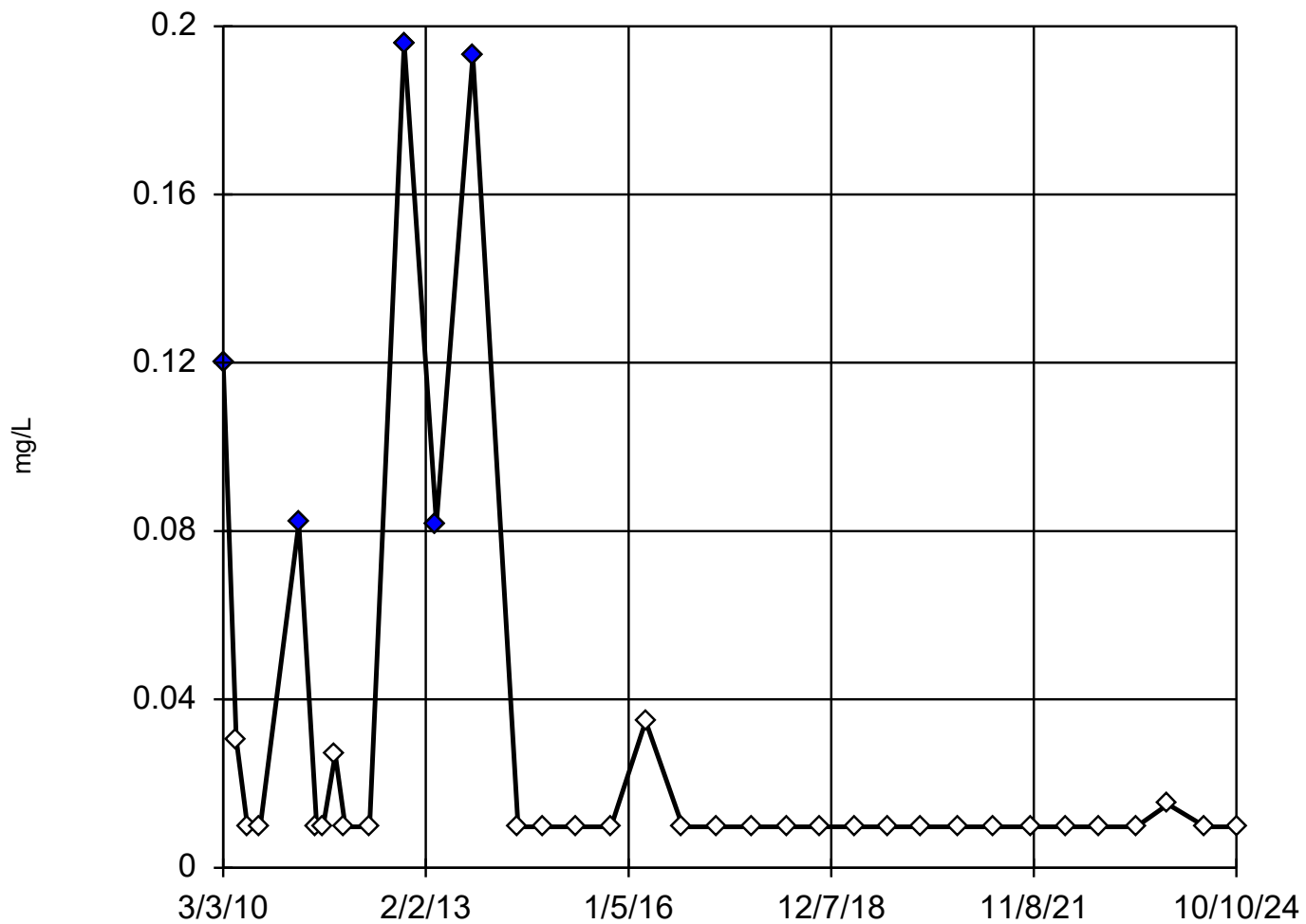
High cutoff = 0.05732,
low cutoff = 0.00908,
based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 1/21/2025 6:34 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-211B



n = 35

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

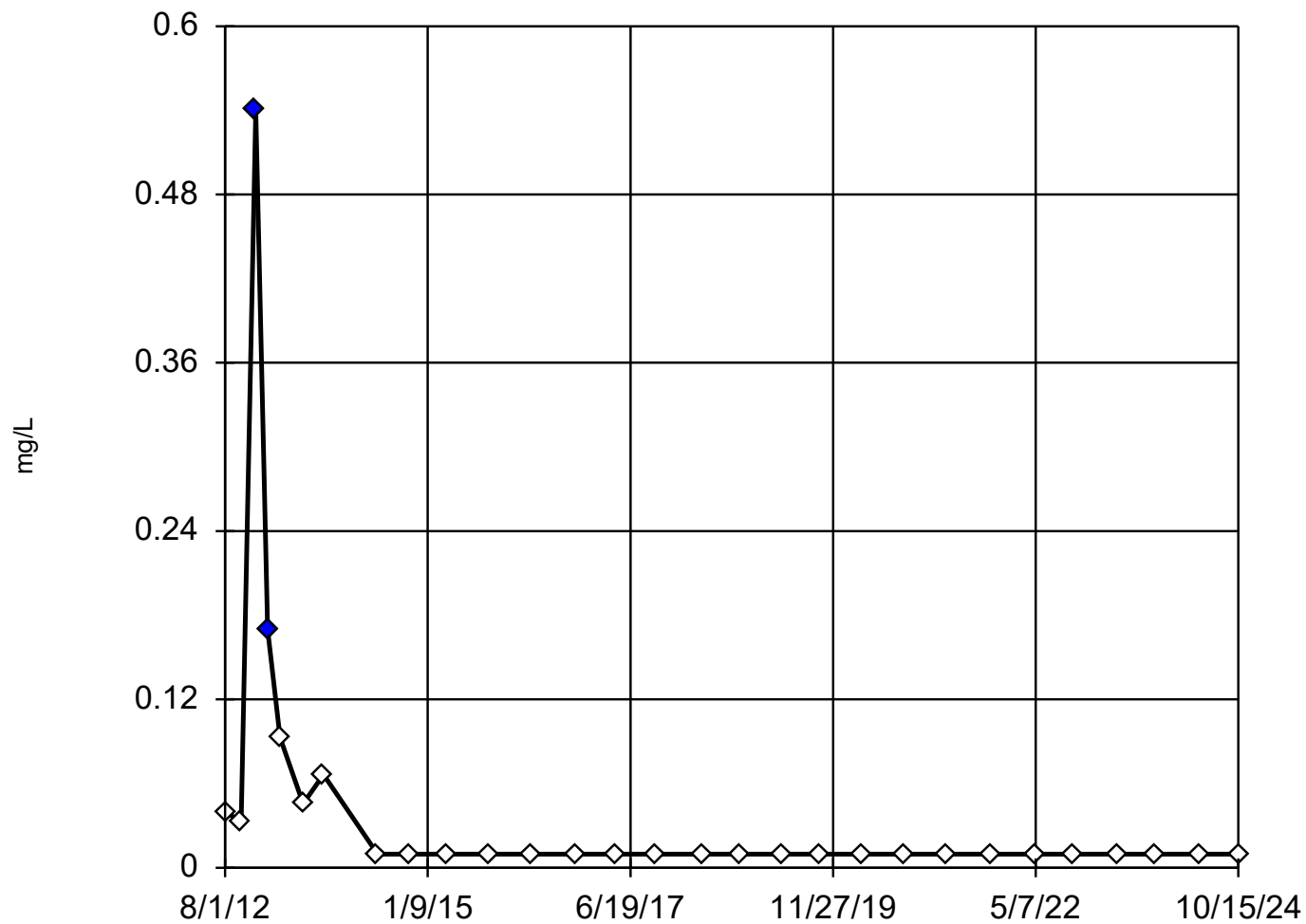
High cutoff = 0.05696,
low cutoff = 0.002571,
based on IQR multiplier
of 3.

Constituent: Zinc Analysis Run 1/21/2025 6:34 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-220A



n = 29

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1136,
low cutoff = 0.001532,
based on IQR multiplier
of 3.

Constituent: Zinc Analysis Run 1/21/2025 6:34 PM View: 04_MW_Inorganics

Iowa City Landfill Data: Iowa City Sanitary Landfill

Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 6:35 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	37	0.001004	0.00002466	unknown	ShapiroWilk
Antimony (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0009882	0.00006998	unknown	ShapiroWilk
Antimony (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	37	0.001	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	30	0.001823	0.0005387	unknown	ShapiroWilk
Antimony (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	37	0.0009845	0.00009453	unknown	ShapiroWilk
Antimony (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	30	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	30	0.001941	0.0003248	unknown	ShapiroWilk
Antimony (mg/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.001	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	37	0.0009791	0.0001271	unknown	ShapiroWilk
Antimony (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	30	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-15A	n/a	n/a	n/a	NP (nrm)	NaN	17	0.006	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0009773	0.0001363	unknown	ShapiroWilk
Antimony (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001942	0.0003144	unknown	ShapiroWilk
Antimony (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.001938	0.0003269	unknown	ShapiroWilk
Antimony (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	36	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	38	0.0009829	0.00008405	unknown	ShapiroWilk
Antimony (mg/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	25	0.001927	0.0003674	unknown	ShapiroWilk
Antimony (mg/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.001951	0.0002548	unknown	ShapiroWilk
Antimony (mg/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	0.001932	0.0003454	unknown	ShapiroWilk
Antimony (mg/L)	MW-209B	No	n/a	n/a	NP (nrm)	NaN	34	0.0008356	0.0002135	unknown	ShapiroWilk
Antimony (mg/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.001932	0.0003516	unknown	ShapiroWilk
Antimony (mg/L)	MW-212A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.001	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.001782	0.0005365	unknown	ShapiroWilk
Antimony (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0009655	0.0001474	unknown	ShapiroWilk
Antimony (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.000977	0.0001343	unknown	ShapiroWilk
Antimony (mg/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.001815	0.0005235	unknown	ShapiroWilk
Antimony (mg/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.002152	0.0008325	unknown	ShapiroWilk
Antimony (mg/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.0009756	0.0001379	unknown	ShapiroWilk
Antimony (mg/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.002369	0.002306	unknown	ShapiroWilk
Antimony (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	8	0.006	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.001	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.001	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.002	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	23	0.001855	0.0004834	unknown	ShapiroWilk
Antimony (mg/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0009959	0.00002191	unknown	ShapiroWilk
Antimony (mg/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001	0	unknown	ShapiroWilk
Antimony (mg/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	7	0.001953	0.0001247	unknown	ShapiroWilk
Antimony (mg/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.0009286	0.000189	unknown	ShapiroWilk
Antimony (mg/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.001	0	unknown	ShapiroWilk

Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 6:35 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	MW-34A (bg)	Yes	0.001,0.001,0.0011,0.0...	2/27/2008,7/13/2008,9/2/200...	NP (nrm)	NaN	40	0.001919	0.0008691	unknown	ShapiroWilk
Arsenic (mg/L)	MW-1A	No	n/a	n/a	EPA 1989	0.05	38	0.04654	0.03014	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0007044	0.0005447	unknown	ShapiroWilk
Arsenic (mg/L)	MW-2A-97	No	n/a	n/a	EPA 1989	0.05	38	0.01162	0.0084	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-5B	No	n/a	n/a	EPA 1989	0.05	34	0.00169	0.0007653	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-6B	Yes	0.0073	4/11/2012	Rosner's	0.01	38	0.04508	0.01246	normal	ShapiroWilk
Arsenic (mg/L)	MW-7B1	No	n/a	n/a	NP (nrm)	NaN	34	0.004819	0.002716	unknown	ShapiroWilk
Arsenic (mg/L)	MW-8B	Yes	0.14	10/11/2012	Rosner's	0.01	34	0.03009	0.02468	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.0005593	0.0001551	unknown	ShapiroWilk
Arsenic (mg/L)	MW-11B	No	n/a	n/a	EPA 1989	0.05	38	0.09161	0.04011	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-12B	No	n/a	n/a	NP (nrm)	NaN	34	0.006264	0.004106	unknown	ShapiroWilk
Arsenic (mg/L)	MW-14B	No	n/a	n/a	EPA 1989	0.05	34	0.003188	0.001737	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-15A	Yes	0.0634	4/23/2018	Rosner's	0.01	38	0.01699	0.009783	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0005653	0.0001627	unknown	ShapiroWilk
Arsenic (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	31	0.00192	0.0007124	unknown	ShapiroWilk
Arsenic (mg/L)	MW-18A-07	No	n/a	n/a	NP (nrm)	NaN	35	0.002877	0.00185	unknown	ShapiroWilk
Arsenic (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.002327	0.001385	unknown	ShapiroWilk
Arsenic (mg/L)	MW-24A	No	n/a	n/a	EPA 1989	0.05	37	0.005076	0.005167	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	0.002007	0.00111	unknown	ShapiroWilk
Arsenic (mg/L)	MW-29A	No	n/a	n/a	NP (nrm)	NaN	35	0.001733	0.0005507	unknown	ShapiroWilk
Arsenic (mg/L)	MW-31B	No	n/a	n/a	NP (nrm)	NaN	38	0.001446	0.00219	unknown	ShapiroWilk
Arsenic (mg/L)	MW-201A	No	n/a	n/a	NP (nrm)	NaN	36	0.005847	0.01061	unknown	ShapiroWilk
Arsenic (mg/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.002432	0.001969	unknown	ShapiroWilk
Arsenic (mg/L)	MW-203A	Yes	0.0011,0.0012,0.0089,0...	7/7/2009,9/2/2009,10/25/200...	NP (nrm)	NaN	34	0.002098	0.001453	unknown	ShapiroWilk
Arsenic (mg/L)	MW-204A	No	n/a	n/a	NP (nrm)	NaN	34	0.05354	0.03453	unknown	ShapiroWilk
Arsenic (mg/L)	MW-208B	No	n/a	n/a	NP (nrm)	NaN	33	0.005686	0.005461	unknown	ShapiroWilk
Arsenic (mg/L)	MW-209B	Yes	0.191	6/2/2014	Rosner's	0.01	38	0.063	0.03213	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-210B	Yes	0.0202,0.0149	4/13/2021,5/2/2022	Rosner's	0.01	34	0.003066	0.003823	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-212A	No	n/a	n/a	EPA 1989	0.05	37	0.0159	0.01774	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-215A	No	n/a	n/a	EPA 1989	0.05	31	0.002463	0.001367	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-206A	No	n/a	n/a	NP (nrm)	NaN	38	0.001317	0.001566	unknown	ShapiroWilk
Arsenic (mg/L)	MW-207A	No	n/a	n/a	EPA 1989	0.05	38	0.06419	0.008201	normal	ShapiroWilk
Arsenic (mg/L)	MW-214A	Yes	0.014	4/4/2011	NP (nrm)	NaN	32	0.002819	0.002479	unknown	ShapiroWilk
Arsenic (mg/L)	MW-200A	Yes	0.026,0.0052,0.0057,0....	3/3/2010,5/10/2010,7/8/2010...	NP (nrm)	NaN	36	0.002074	0.004699	unknown	ShapiroWilk
Arsenic (mg/L)	MW-205A	No	n/a	n/a	EPA 1989	0.05	33	0.03556	0.03563	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-211B	No	n/a	n/a	NP (nrm)	NaN	35	0.005093	0.006481	unknown	ShapiroWilk
Arsenic (mg/L)	MW-213A	No	n/a	n/a	NP (nrm)	NaN	33	0.004516	0.003611	unknown	ShapiroWilk
Arsenic (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0005659	0.0001348	unknown	ShapiroWilk
Arsenic (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.00053	0	unknown	ShapiroWilk
Arsenic (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.0005594	0.0001175	unknown	ShapiroWilk
Arsenic (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.002664	0.004185	unknown	ShapiroWilk
Arsenic (mg/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	23	0.002039	0.0006671	unknown	ShapiroWilk
Arsenic (mg/L)	MW-216A	No	n/a	n/a	NP (nrm)	NaN	29	0.002765	0.004222	unknown	ShapiroWilk
Arsenic (mg/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001033	0.001693	unknown	ShapiroWilk
Arsenic (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.000611	0.0002828	unknown	ShapiroWilk
Arsenic (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0005993	0.0003132	unknown	ShapiroWilk
Arsenic (mg/L)	MW-220A	Yes	0.00968	12/13/2012	NP (nrm)	NaN	29	0.001102	0.001736	unknown	ShapiroWilk
Arsenic (mg/L)	MW-18AR	No	n/a	n/a	NP (nrm)	NaN	13	0.0009765	0.0005742	unknown	ShapiroWilk
Arsenic (mg/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	13	0.0006277	0.0003522	unknown	ShapiroWilk
Arsenic (mg/L)	MW-410	No	n/a	n/a	NP (nrm)	NaN	7	0.0006776	0.0003243	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Arsenic (mg/L)	MW-409	No	n/a	n/a	EPA 1989	0.05	13	0.03282	0.005356	normal	ShapiroWilk
Arsenic (mg/L)	MW-11D	No	n/a	n/a	NP (nrm)	NaN	17	0.002497	0.001406	unknown	ShapiroWilk
Arsenic (mg/L)	MW-407	No	n/a	n/a	EPA 1989	0.05	17	0.002496	0.00181	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-7C	Yes	0.0045,0.00551	5/2/2022,4/16/2019	Dixon's	0.05	15	0.002648	0.001034	ln(x)	ShapiroWilk
Arsenic (mg/L)	MW-2C-97	n/a	n/a	n/a	NP (nrm)	NaN	7	0.003514	0.001287	unknown	ShapiroWilk
Barium (mg/L)	MW-34A (bg)	No	n/a	n/a	NP (nrm)	NaN	42	0.2063	0.0563	unknown	ShapiroWilk
Barium (mg/L)	MW-1A	Yes	1.05,0.126	2/27/2008,4/29/2024	NP (nrm)	NaN	39	0.4719	0.1504	unknown	ShapiroWilk
Barium (mg/L)	MW-1B	No	n/a	n/a	NP (nrm)	NaN	38	0.4633	0.1058	unknown	ShapiroWilk
Barium (mg/L)	MW-2A-97	Yes	0.687	4/16/2019	Rosner's	0.01	39	0.3504	0.07612	normal	ShapiroWilk
Barium (mg/L)	MW-5B	No	n/a	n/a	Rosner's	0.01	35	0.1786	0.04005	normal	ShapiroWilk
Barium (mg/L)	MW-6B	No	n/a	n/a	Rosner's	0.01	39	0.7533	0.1135	ln(x)	ShapiroWilk
Barium (mg/L)	MW-7B1	No	n/a	n/a	NP (nrm)	NaN	35	0.5404	0.09485	unknown	ShapiroWilk
Barium (mg/L)	MW-8B	Yes	3.83	10/11/2012	Rosner's	0.01	36	0.7203	0.5888	ln(x)	ShapiroWilk
Barium (mg/L)	MW-10B	No	n/a	n/a	EPA 1989	0.05	12	0.131	0.01909	normal	ShapiroWilk
Barium (mg/L)	MW-11B	No	n/a	n/a	EPA 1989	0.05	39	0.5063	0.09147	normal	ShapiroWilk
Barium (mg/L)	MW-12B	No	n/a	n/a	NP (nrm)	NaN	33	0.5921	0.2238	unknown	ShapiroWilk
Barium (mg/L)	MW-14B	No	n/a	n/a	EPA 1989	0.05	35	0.4379	0.06024	normal	ShapiroWilk
Barium (mg/L)	MW-15A	Yes	1.24,1.35,0.481	7/13/2008,2/27/2008,7/7/2009	Dixon's	0.05	19	0.8816	0.1865	normal	ShapiroWilk
Barium (mg/L)	MW-16A	No	n/a	n/a	EPA 1989	0.05	39	0.4972	0.0692	normal	ShapiroWilk
Barium (mg/L)	MW-17A-00	Yes	0.16	7/7/2009	Rosner's	0.01	35	0.4501	0.07363	normal	ShapiroWilk
Barium (mg/L)	MW-18A-07	No	n/a	n/a	EPA 1989	0.05	32	1.045	0.1324	normal	ShapiroWilk
Barium (mg/L)	MW-23A	Yes	0.625,0.467	5/10/2010,9/2/2009	Rosner's	0.01	35	0.3288	0.06369	normal	ShapiroWilk
Barium (mg/L)	MW-24A	No	n/a	n/a	NP (nrm)	NaN	37	0.3635	0.07996	unknown	ShapiroWilk
Barium (mg/L)	MW-25A-00	No	n/a	n/a	NP (nrm)	NaN	39	0.1392	0.05426	unknown	ShapiroWilk
Barium (mg/L)	MW-29A	Yes	0.284,0.253	10/10/2024,10/14/2022	Rosner's	0.01	39	0.138	0.04067	ln(x)	ShapiroWilk
Barium (mg/L)	MW-31B	No	n/a	n/a	NP (nrm)	NaN	41	0.3534	0.1245	unknown	ShapiroWilk
Barium (mg/L)	MW-201A	No	n/a	n/a	EPA 1989	0.05	36	0.447	0.2488	ln(x)	ShapiroWilk
Barium (mg/L)	MW-202A	No	n/a	n/a	EPA 1989	0.05	34	0.3601	0.06104	normal	ShapiroWilk
Barium (mg/L)	MW-203A	No	n/a	n/a	EPA 1989	0.05	34	0.3108	0.04349	normal	ShapiroWilk
Barium (mg/L)	MW-204A	No	n/a	n/a	Rosner's	0.01	34	0.1692	0.02504	normal	ShapiroWilk
Barium (mg/L)	MW-208B	Yes	0.0557,0.071,0.121	4/29/2024,5/1/2023,5/2/2022	Rosner's	0.01	33	0.6476	0.2265	normal	ShapiroWilk
Barium (mg/L)	MW-209B	No	n/a	n/a	NP (nrm)	NaN	38	0.9524	0.4324	unknown	ShapiroWilk
Barium (mg/L)	MW-210B	Yes	0.1165,0.665	4/29/2024,4/13/2021	Rosner's	0.01	34	0.2928	0.08912	ln(x)	ShapiroWilk
Barium (mg/L)	MW-212A	No	n/a	n/a	NP (nrm)	NaN	37	0.6115	0.4281	unknown	ShapiroWilk
Barium (mg/L)	MW-215A	No	n/a	n/a	NP (nrm)	NaN	31	0.1941	0.1062	unknown	ShapiroWilk
Barium (mg/L)	MW-206A	No	n/a	n/a	EPA 1989	0.05	38	0.3021	0.09356	normal	ShapiroWilk
Barium (mg/L)	MW-207A	No	n/a	n/a	EPA 1989	0.05	38	0.4544	0.05966	ln(x)	ShapiroWilk
Barium (mg/L)	MW-214A	Yes	0.0572,0.514	10/17/2016,4/17/2017	NP (nrm)	NaN	32	0.2847	0.07573	unknown	ShapiroWilk
Barium (mg/L)	MW-200A	No	n/a	n/a	EPA 1989	0.05	36	0.7431	0.2295	ln(x)	ShapiroWilk
Barium (mg/L)	MW-205A	No	n/a	n/a	EPA 1989	0.05	33	0.4303	0.1752	ln(x)	ShapiroWilk
Barium (mg/L)	MW-211B	No	n/a	n/a	EPA 1989	0.05	35	0.543	0.2039	normal	ShapiroWilk
Barium (mg/L)	MW-213A	No	n/a	n/a	NP (nrm)	NaN	33	0.2642	0.1665	unknown	ShapiroWilk
Barium (mg/L)	MW-306A	No	n/a	n/a	EPA 1989	0.05	12	0.1062	0.03324	ln(x)	ShapiroWilk
Barium (mg/L)	MW-310A	No	n/a	n/a	EPA 1989	0.05	17	0.09586	0.04176	ln(x)	ShapiroWilk
Barium (mg/L)	MW-312A	No	n/a	n/a	NP (nrm)	NaN	14	0.1869	0.03043	unknown	ShapiroWilk
Barium (mg/L)	MW-38A (bg)	Yes	0.806	10/7/2013	Rosner's	0.01	24	0.2955	0.1218	normal	ShapiroWilk
Barium (mg/L)	MW-39B (bg)	Yes	0.31	8/1/2012	Rosner's	0.01	23	0.1738	0.03865	ln(x)	ShapiroWilk
Barium (mg/L)	MW-216A	Yes	1.42	7/10/2013	NP (nrm)	NaN	29	0.3759	0.2987	unknown	ShapiroWilk
Barium (mg/L)	MW-217A	Yes	1.82,0.616,0.274,0.268	10/7/2013,12/13/2012,2/4/20...	Rosner's	0.01	29	0.179	0.3333	normal	ShapiroWilk
Barium (mg/L)	MW-218A	No	n/a	n/a	EPA 1989	0.05	29	0.2405	0.02954	normal	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Barium (mg/L)	MW-219A	No	n/a	n/a	NP (nrm)	NaN	29	0.5079	0.1292	unknown	ShapiroWilk
Barium (mg/L)	MW-220A	Yes	1.85,1.35,0.559,0.471	12/13/2012,2/4/2013,3/30/20...	Rosner's	0.01	29	0.3971	0.346	normal	ShapiroWilk
Barium (mg/L)	MW-18AR	No	n/a	n/a	EPA 1989	0.05	13	0.6938	0.1513	normal	ShapiroWilk
Barium (mg/L)	MW-408	No	n/a	n/a	EPA 1989	0.05	7	0.1754	0.01234	normal	ShapiroWilk
Barium (mg/L)	MW-410	No	n/a	n/a	EPA 1989	0.05	7	0.1003	0.007634	normal	ShapiroWilk
Beryllium (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	42	0.001002	0.0000108	unknown	ShapiroWilk
Beryllium (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.00044	0.0004401	unknown	ShapiroWilk
Beryllium (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0003234	0.00003888	unknown	ShapiroWilk
Beryllium (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0003221	0.00004767	unknown	ShapiroWilk
Beryllium (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.003864	0.0007302	unknown	ShapiroWilk
Beryllium (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	36	0.00033	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	0.003813	0.0007003	unknown	ShapiroWilk
Beryllium (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.003481	0.001164	unknown	ShapiroWilk
Beryllium (mg/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.00033	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0003289	0.00006291	unknown	ShapiroWilk
Beryllium (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.004	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.004	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-15A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.001136	0.0003599	unknown	ShapiroWilk
Beryllium (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.00033	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	29	0.004	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	29	0.003872	0.0006893	unknown	ShapiroWilk
Beryllium (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.003938	0.0003343	unknown	ShapiroWilk
Beryllium (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003723	0.001018	unknown	ShapiroWilk
Beryllium (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0009761	0.0001435	unknown	ShapiroWilk
Beryllium (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.004	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	38	0.0004191	0.0003186	unknown	ShapiroWilk
Beryllium (mg/L)	MW-201A	No	n/a	n/a	NP (nrm)	NaN	29	0.003304	0.001175	unknown	ShapiroWilk
Beryllium (mg/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.004	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.004	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.004	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	0.004	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-209B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0003515	0.0001252	unknown	ShapiroWilk
Beryllium (mg/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.00386	0.0007275	unknown	ShapiroWilk
Beryllium (mg/L)	MW-212A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0003262	0.00002229	unknown	ShapiroWilk
Beryllium (mg/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.004	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0003232	0.00003944	unknown	ShapiroWilk
Beryllium (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.00033	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.003442	0.001296	unknown	ShapiroWilk
Beryllium (mg/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.004096	0.001846	unknown	ShapiroWilk
Beryllium (mg/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.003714	0.001031	unknown	ShapiroWilk
Beryllium (mg/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.0004163	0.0003831	unknown	ShapiroWilk
Beryllium (mg/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.003792	0.00075	unknown	ShapiroWilk
Beryllium (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	8	0.001	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.00033	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.0003207	0.00003474	unknown	ShapiroWilk
Beryllium (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.0009873	0.0002349	unknown	ShapiroWilk
Beryllium (mg/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	23	0.0009843	0.00007527	unknown	ShapiroWilk
Beryllium (mg/L)	MW-216A	Yes	0.00758,0.00999,0.000041	10/11/2012,2/4/2013,10/5/2015	NP (nrm)	NaN	29	0.001347	0.00237	unknown	ShapiroWilk
Beryllium (mg/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0005177	0.0008655	unknown	ShapiroWilk
Beryllium (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.00033	0	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Beryllium (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0003231	0.00003695	unknown	ShapiroWilk
Beryllium (mg/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0007148	0.001112	unknown	ShapiroWilk
Beryllium (mg/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	7	0.004	0	unknown	ShapiroWilk
Beryllium (mg/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.0002971	0.00008693	unknown	ShapiroWilk
Beryllium (mg/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.00033	0	unknown	ShapiroWilk
Cadmium (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0002	0	unknown	ShapiroWilk
Cadmium (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0001203	0.000099	unknown	ShapiroWilk
Cadmium (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.00009988	6.9e-7	unknown	ShapiroWilk
Cadmium (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0001874	0.00003471	unknown	ShapiroWilk
Cadmium (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0007206	0.0002335	unknown	ShapiroWilk
Cadmium (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.00009849	0.000008959	unknown	ShapiroWilk
Cadmium (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0008	0	unknown	ShapiroWilk
Cadmium (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0007755	0.0001427	unknown	ShapiroWilk
Cadmium (mg/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.0002	0.00005144	unknown	ShapiroWilk
Cadmium (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0001011	0.0000127	unknown	ShapiroWilk
Cadmium (mg/L)	MW-12B	No	n/a	n/a	NP (nrm)	NaN	27	0.0005709	0.0003308	unknown	ShapiroWilk
Cadmium (mg/L)	MW-14B	No	n/a	n/a	NP (nrm)	NaN	28	0.0005649	0.0003481	unknown	ShapiroWilk
Cadmium (mg/L)	MW-15A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.0006583	0.0005827	unknown	ShapiroWilk
Cadmium (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0001786	0.0002161	unknown	ShapiroWilk
Cadmium (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0008	0	unknown	ShapiroWilk
Cadmium (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0007805	0.0001034	unknown	ShapiroWilk
Cadmium (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0007881	0.0001602	unknown	ShapiroWilk
Cadmium (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0007543	0.0001449	unknown	ShapiroWilk
Cadmium (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0002	0	unknown	ShapiroWilk
Cadmium (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0007205	0.0002338	unknown	ShapiroWilk
Cadmium (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	38	0.0001366	0.00009394	unknown	ShapiroWilk
Cadmium (mg/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.0008	0	unknown	ShapiroWilk
Cadmium (mg/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0008	0	unknown	ShapiroWilk
Cadmium (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0007728	0.0001438	unknown	ShapiroWilk
Cadmium (mg/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0006951	0.0002617	unknown	ShapiroWilk
Cadmium (mg/L)	MW-208B	No	n/a	n/a	NP (nrm)	NaN	30	0.0006256	0.0002753	unknown	ShapiroWilk
Cadmium (mg/L)	MW-209B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.00009923	0.000004564	unknown	ShapiroWilk
Cadmium (mg/L)	MW-210B	No	n/a	n/a	NP (nrm)	NaN	31	0.0007407	0.000327	unknown	ShapiroWilk
Cadmium (mg/L)	MW-212A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.000254	0.0006555	unknown	ShapiroWilk
Cadmium (mg/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.0006609	0.0002908	unknown	ShapiroWilk
Cadmium (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0001029	0.0000169	unknown	ShapiroWilk
Cadmium (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0001343	0.0002028	unknown	ShapiroWilk
Cadmium (mg/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.0008069	0.0003436	unknown	ShapiroWilk
Cadmium (mg/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0008	0	unknown	ShapiroWilk
Cadmium (mg/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0007807	0.0001042	unknown	ShapiroWilk
Cadmium (mg/L)	MW-211B	No	n/a	n/a	NP (nrm)	NaN	34	0.0003522	0.0007859	unknown	ShapiroWilk
Cadmium (mg/L)	MW-213A	No	n/a	n/a	NP (nrm)	NaN	29	0.0006	0.0003158	unknown	ShapiroWilk
Cadmium (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	9	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.0001	0	unknown	ShapiroWilk
Cadmium (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.0001071	0.00002673	unknown	ShapiroWilk
Cadmium (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.0002637	0.0003123	unknown	ShapiroWilk
Cadmium (mg/L)	MW-39B (bg)	No	n/a	n/a	NP (nrm)	NaN	23	0.0002012	0.0001156	unknown	ShapiroWilk
Cadmium (mg/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.000251	0.0003903	unknown	ShapiroWilk
Cadmium (mg/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.000159	0.0003175	unknown	ShapiroWilk
Cadmium (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0001001	3.7e-7	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Cadmium (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0001186	0.0000999	unknown	ShapiroWilk
Cadmium (mg/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0003165	0.0006128	unknown	ShapiroWilk
Cadmium (mg/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	7	0.000692	0.0002857	unknown	ShapiroWilk
Cadmium (mg/L)	MW-408	No	n/a	n/a	EPA 1989	0.05	7	0.0002847	0.0002427	ln(x)	ShapiroWilk
Cadmium (mg/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.0001	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	32	0.004857	0.0007444	unknown	ShapiroWilk
Chromium (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001176	0.0001411	unknown	ShapiroWilk
Chromium (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.001188	0.0000686	unknown	ShapiroWilk
Chromium (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0012	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.004435	0.001421	unknown	ShapiroWilk
Chromium (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001246	0.0004315	unknown	ShapiroWilk
Chromium (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	28	0.008	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.007641	0.001438	unknown	ShapiroWilk
Chromium (mg/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.0012	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001378	0.00113	unknown	ShapiroWilk
Chromium (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.007839	0.0008391	unknown	ShapiroWilk
Chromium (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.007833	0.0008844	unknown	ShapiroWilk
Chromium (mg/L)	MW-15A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.02	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0012	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-17A-00	No	n/a	n/a	NP (nrm)	NaN	28	0.003744	0.001609	unknown	ShapiroWilk
Chromium (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	28	0.007767	0.001232	unknown	ShapiroWilk
Chromium (mg/L)	MW-23A	No	n/a	n/a	NP (nrm)	NaN	28	0.003664	0.001595	unknown	ShapiroWilk
Chromium (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.008	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-25A-00	No	n/a	n/a	NP (nrm)	NaN	35	0.003579	0.001888	unknown	ShapiroWilk
Chromium (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.008	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	38	0.001622	0.001539	unknown	ShapiroWilk
Chromium (mg/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.03058	0.0853	unknown	ShapiroWilk
Chromium (mg/L)	MW-202A	No	n/a	n/a	NP (nrm)	NaN	28	0.0115	0.009307	unknown	ShapiroWilk
Chromium (mg/L)	MW-203A	No	n/a	n/a	NP (nrm)	NaN	28	0.01206	0.008717	unknown	ShapiroWilk
Chromium (mg/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.007502	0.001831	unknown	ShapiroWilk
Chromium (mg/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.008279	0.002546	unknown	ShapiroWilk
Chromium (mg/L)	MW-209B	Yes	0.00519	10/16/2018	NP (nrm)	NaN	35	0.001524	0.0006961	unknown	ShapiroWilk
Chromium (mg/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.008	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-212A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001187	0.0001515	unknown	ShapiroWilk
Chromium (mg/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.004381	0.001453	unknown	ShapiroWilk
Chromium (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001304	0.0006686	unknown	ShapiroWilk
Chromium (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001232	0.0001893	unknown	ShapiroWilk
Chromium (mg/L)	MW-214A	No	n/a	n/a	NP (nrm)	NaN	27	0.01225	0.008296	unknown	ShapiroWilk
Chromium (mg/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.03788	0.1658	unknown	ShapiroWilk
Chromium (mg/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.007035	0.002463	unknown	ShapiroWilk
Chromium (mg/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.003121	0.01129	unknown	ShapiroWilk
Chromium (mg/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.008	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	9	0.02	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.0012	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.004762	0.001231	unknown	ShapiroWilk
Chromium (mg/L)	MW-38A (bg)	No	n/a	n/a	NP (nrm)	NaN	24	0.01058	0.01288	unknown	ShapiroWilk
Chromium (mg/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	23	0.00547	0.002622	unknown	ShapiroWilk
Chromium (mg/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002393	0.006599	unknown	ShapiroWilk
Chromium (mg/L)	MW-217A	Yes	0.0661,0.0224,0.0028	12/13/2012,10/7/2013,10/14/...	NP (nrm)	NaN	29	0.004306	0.01252	unknown	ShapiroWilk
Chromium (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001173	0.0001255	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Chromium (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0012	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.009507	0.04471	unknown	ShapiroWilk
Chromium (mg/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	7	0.008	0	unknown	ShapiroWilk
Chromium (mg/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.001286	0.0002268	unknown	ShapiroWilk
Chromium (mg/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.0012	0	unknown	ShapiroWilk
Cobalt (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	42	0.0008384	0.001264	unknown	ShapiroWilk
Cobalt (mg/L)	MW-1A	Yes	0.0411,0.0211,0.02	2/27/2008,4/29/2024,7/13/2008	Rosner's	0.01	36	0.006849	0.007043	normal	ShapiroWilk
Cobalt (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0003452	0.0007538	unknown	ShapiroWilk
Cobalt (mg/L)	MW-2A-97	Yes	0.01	9/2/2009	Rosner's	0.01	40	0.02242	0.00388	normal	ShapiroWilk
Cobalt (mg/L)	MW-5B	No	n/a	n/a	NP (nrm)	NaN	32	0.001315	0.001544	unknown	ShapiroWilk
Cobalt (mg/L)	MW-6B	No	n/a	n/a	NP (nrm)	NaN	39	0.04704	0.02085	unknown	ShapiroWilk
Cobalt (mg/L)	MW-7B1	Yes	0.0025,0.00298,0.0034,...	5/10/2010,11/1/2010,4/4/201...	NP (nrm)	NaN	33	0.0009592	0.001329	unknown	ShapiroWilk
Cobalt (mg/L)	MW-8B	No	n/a	n/a	NP (nrm)	NaN	33	0.003177	0.003568	unknown	ShapiroWilk
Cobalt (mg/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.0002999	0.0004111	unknown	ShapiroWilk
Cobalt (mg/L)	MW-11B	No	n/a	n/a	NP (nrm)	NaN	36	0.004529	0.003663	unknown	ShapiroWilk
Cobalt (mg/L)	MW-12B	No	n/a	n/a	NP (nrm)	NaN	30	0.008447	0.00741	unknown	ShapiroWilk
Cobalt (mg/L)	MW-14B	Yes	0.00185,0.00118	4/16/2019,4/29/2024	NP (nrm)	NaN	32	0.009167	0.006066	unknown	ShapiroWilk
Cobalt (mg/L)	MW-15A	No	n/a	n/a	NP (nrm)	NaN	16	0.01538	0.005195	unknown	ShapiroWilk
Cobalt (mg/L)	MW-16A	No	n/a	n/a	NP (nrm)	NaN	36	0.002127	0.001552	unknown	ShapiroWilk
Cobalt (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	32	0.0005588	0.0003323	unknown	ShapiroWilk
Cobalt (mg/L)	MW-18A-07	No	n/a	n/a	NP (nrm)	NaN	36	0.003354	0.002099	unknown	ShapiroWilk
Cobalt (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.0008131	0.001416	unknown	ShapiroWilk
Cobalt (mg/L)	MW-24A	No	n/a	n/a	NP (nrm)	NaN	34	0.01139	0.004937	unknown	ShapiroWilk
Cobalt (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0006963	0.000762	unknown	ShapiroWilk
Cobalt (mg/L)	MW-29A	No	n/a	n/a	NP (nrm)	NaN	36	0.001203	0.001599	unknown	ShapiroWilk
Cobalt (mg/L)	MW-31B	No	n/a	n/a	NP (nrm)	NaN	38	0.003979	0.003315	unknown	ShapiroWilk
Cobalt (mg/L)	MW-201A	No	n/a	n/a	NP (nrm)	NaN	36	0.001072	0.001811	unknown	ShapiroWilk
Cobalt (mg/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.000461	0.0001228	unknown	ShapiroWilk
Cobalt (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.0008509	0.001881	unknown	ShapiroWilk
Cobalt (mg/L)	MW-204A	No	n/a	n/a	NP (nrm)	NaN	34	0.002065	0.001719	unknown	ShapiroWilk
Cobalt (mg/L)	MW-208B	No	n/a	n/a	NP (nrm)	NaN	33	0.01506	0.006645	unknown	ShapiroWilk
Cobalt (mg/L)	MW-209B	Yes	0.00482	3/30/2013	NP (nrm)	NaN	38	0.002257	0.0006078	unknown	ShapiroWilk
Cobalt (mg/L)	MW-210B	No	n/a	n/a	NP (nrm)	NaN	34	0.006022	0.001136	unknown	ShapiroWilk
Cobalt (mg/L)	MW-212A	No	n/a	n/a	NP (nrm)	NaN	37	0.02204	0.03323	unknown	ShapiroWilk
Cobalt (mg/L)	MW-215A	No	n/a	n/a	NP (nrm)	NaN	31	0.001568	0.0008591	unknown	ShapiroWilk
Cobalt (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	38	0.000437	0.001163	unknown	ShapiroWilk
Cobalt (mg/L)	MW-207A	No	n/a	n/a	NP (nrm)	NaN	38	0.001648	0.0007839	unknown	ShapiroWilk
Cobalt (mg/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.0009535	0.001132	unknown	ShapiroWilk
Cobalt (mg/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.003784	0.01523	unknown	ShapiroWilk
Cobalt (mg/L)	MW-205A	No	n/a	n/a	NP (nrm)	NaN	33	0.00113	0.001177	unknown	ShapiroWilk
Cobalt (mg/L)	MW-211B	No	n/a	n/a	EPA 1989	0.05	35	0.03479	0.02594	ln(x)	ShapiroWilk
Cobalt (mg/L)	MW-213A	No	n/a	n/a	EPA 1989	0.05	33	0.01202	0.008243	normal	ShapiroWilk
Cobalt (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	12	0.002415	0.0003938	unknown	ShapiroWilk
Cobalt (mg/L)	MW-310A	Yes	0.00415,0.00173,0.0000...	12/5/2011,10/11/2012,4/6/20...	NP (nrm)	NaN	30	0.0005429	0.00132	unknown	ShapiroWilk
Cobalt (mg/L)	MW-312A	No	n/a	n/a	NP (nrm)	NaN	14	0.0008249	0.0007358	unknown	ShapiroWilk
Cobalt (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.000954	0.001886	unknown	ShapiroWilk
Cobalt (mg/L)	MW-39B (bg)	No	n/a	n/a	EPA 1989	0.05	23	0.002029	0.002313	ln(x)	ShapiroWilk
Cobalt (mg/L)	MW-216A	No	n/a	n/a	NP (nrm)	NaN	29	0.006839	0.01352	unknown	ShapiroWilk
Cobalt (mg/L)	MW-217A	Yes	0.00524,0.0405,0.015,0...	8/1/2012,12/13/2012,2/4/201...	NP (nrm)	NaN	29	0.006987	0.02567	unknown	ShapiroWilk
Cobalt (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0006411	0.001356	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Cobalt (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0007554	0.001535	unknown	ShapiroWilk
Cobalt (mg/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.005504	0.01839	unknown	ShapiroWilk
Cobalt (mg/L)	MW-18AR	No	n/a	n/a	NP (nrm)	NaN	13	0.001201	0.0007947	unknown	ShapiroWilk
Cobalt (mg/L)	MW-408	Yes	0.0189	10/14/2022	Dixon's	0.05	7	0.003087	0.006979	ln(x)	ShapiroWilk
Cobalt (mg/L)	MW-410	No	n/a	n/a	EPA 1989	0.05	11	0.0009134	0.000746	ln(x)	ShapiroWilk
Cobalt (mg/L)	MW-409	No	n/a	n/a	EPA 1989	0.05	13	0.008332	0.001353	normal	ShapiroWilk
Cobalt (mg/L)	MW-7C	No	n/a	n/a	NP (nrm)	NaN	8	0.0002264	0.0001473	unknown	ShapiroWilk
Cobalt (mg/L)	MW-2C-97	No	n/a	n/a	EPA 1989	0.05	15	0.005949	0.0008257	normal	ShapiroWilk
Copper (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	36	0.005611	0.004201	unknown	ShapiroWilk
Copper (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.007862	0.02014	unknown	ShapiroWilk
Copper (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.00254	0.004502	unknown	ShapiroWilk
Copper (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	35	0.004981	0.01332	unknown	ShapiroWilk
Copper (mg/L)	MW-5B	Yes	0.032	2/27/2008	NP (nrm)	NaN	31	0.005148	0.005128	unknown	ShapiroWilk
Copper (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.003907	0.008979	unknown	ShapiroWilk
Copper (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	34	0.01147	0.01813	unknown	ShapiroWilk
Copper (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.008903	0.01224	unknown	ShapiroWilk
Copper (mg/L)	MW-10B	Yes	0.029,0.037	2/27/2008,5/12/2008	NP (nrm)	NaN	12	0.007101	0.01223	unknown	ShapiroWilk
Copper (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.002491	0.004091	unknown	ShapiroWilk
Copper (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.005897	0.005325	unknown	ShapiroWilk
Copper (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	31	0.004548	0.001259	unknown	ShapiroWilk
Copper (mg/L)	MW-15A	No	n/a	n/a	NP (nrm)	NaN	15	0.02955	0.01923	unknown	ShapiroWilk
Copper (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.002629	0.004284	unknown	ShapiroWilk
Copper (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	31	0.006478	0.00562	unknown	ShapiroWilk
Copper (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	28	0.006849	0.01135	unknown	ShapiroWilk
Copper (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.008252	0.01516	unknown	ShapiroWilk
Copper (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.004217	0.007854	unknown	ShapiroWilk
Copper (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	0.004919	0.00048	unknown	ShapiroWilk
Copper (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.002785	0.005458	unknown	ShapiroWilk
Copper (mg/L)	MW-31B	No	n/a	n/a	NP (nrm)	NaN	38	0.01334	0.02805	unknown	ShapiroWilk
Copper (mg/L)	MW-201A	Yes	0.05,0.2,0.07,0.056	10/25/2009,1/2/2010,3/3/201...	NP (nrm)	NaN	33	0.01493	0.03757	unknown	ShapiroWilk
Copper (mg/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.005764	0.004702	unknown	ShapiroWilk
Copper (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.005832	0.005466	unknown	ShapiroWilk
Copper (mg/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.005112	0.001461	unknown	ShapiroWilk
Copper (mg/L)	MW-208B	Yes	0.00488,0.00145,0.0012...	10/15/2014,4/6/2015,4/4/201...	NP (nrm)	NaN	30	0.003574	0.000951	unknown	ShapiroWilk
Copper (mg/L)	MW-209B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.002543	0.004437	unknown	ShapiroWilk
Copper (mg/L)	MW-210B	Yes	0.0101	4/13/2021	NP (nrm)	NaN	31	0.004616	0.001508	unknown	ShapiroWilk
Copper (mg/L)	MW-212A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.01022	0.02451	unknown	ShapiroWilk
Copper (mg/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.004316	0.001313	unknown	ShapiroWilk
Copper (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.002106	0.001998	unknown	ShapiroWilk
Copper (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.00254	0.004435	unknown	ShapiroWilk
Copper (mg/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.004907	0.002293	unknown	ShapiroWilk
Copper (mg/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.02031	0.1047	unknown	ShapiroWilk
Copper (mg/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.004516	0.00416	unknown	ShapiroWilk
Copper (mg/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.006241	0.01621	unknown	ShapiroWilk
Copper (mg/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.005121	0.003813	unknown	ShapiroWilk
Copper (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	9	0.02	0	unknown	ShapiroWilk
Copper (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.001737	0.0002029	unknown	ShapiroWilk
Copper (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.001793	0.0004531	unknown	ShapiroWilk
Copper (mg/L)	MW-38A (bg)	Yes	0.000972,0.0012	10/5/2015,4/13/2021	NP (nrm)	NaN	24	0.004129	0.001564	unknown	ShapiroWilk
Copper (mg/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	23	0.004766	0.002153	unknown	ShapiroWilk

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Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Copper (mg/L)	MW-216A	Yes	0.0466,0.0501,0.0201,0...	12/13/2012,7/10/2013,10/7/2...	NP (nrm)	NaN	29	0.005638	0.01232	unknown	ShapiroWilk
Copper (mg/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.007954	0.02449	unknown	ShapiroWilk
Copper (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001763	0.0004069	unknown	ShapiroWilk
Copper (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002519	0.003624	unknown	ShapiroWilk
Copper (mg/L)	MW-220A	Yes	0.431,0.326	12/13/2012,2/4/2013	NP (nrm)	NaN	29	0.03416	0.09793	unknown	ShapiroWilk
Copper (mg/L)	MW-18AR	Yes	0.00303,0.0015,0.0048	10/1/2019,10/20/2021,10/14/...	NP (nrm)	NaN	13	0.00211	0.0008833	unknown	ShapiroWilk
Copper (mg/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.002356	0.0009496	unknown	ShapiroWilk
Copper (mg/L)	MW-410	No	n/a	n/a	NP (nrm)	NaN	7	0.001823	0.0002714	unknown	ShapiroWilk
Cyanide (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	7	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Cyanide (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.02029	0.03849	unknown	ShapiroWilk
Cyanide (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.01	0	unknown	ShapiroWilk
Lead (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	40	0.0006497	0.0007705	unknown	ShapiroWilk
Lead (mg/L)	MW-1A	Yes	0.07,0.039,0.03,0.013,...	2/27/2008,5/12/2008,7/13/20...	NP (nrm)	NaN	35	0.004957	0.01407	unknown	ShapiroWilk
Lead (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0004405	0.000772	unknown	ShapiroWilk
Lead (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001153	0.003637	unknown	ShapiroWilk
Lead (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	31	0.001078	0.001895	unknown	ShapiroWilk
Lead (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0007641	0.001608	unknown	ShapiroWilk
Lead (mg/L)	MW-7B1	No	n/a	n/a	NP (nrm)	NaN	34	0.005898	0.009379	unknown	ShapiroWilk
Lead (mg/L)	MW-8B	Yes	0.000209	10/16/2018	NP (nrm)	NaN	34	0.00855	0.01267	unknown	ShapiroWilk
Lead (mg/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.00026	0	unknown	ShapiroWilk
Lead (mg/L)	MW-11B	Yes	0.011,0.023,0.00679,0....	2/27/2008,9/14/2008,11/17/2...	NP (nrm)	NaN	38	0.001839	0.004359	unknown	ShapiroWilk
Lead (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0005293	0.0001578	unknown	ShapiroWilk
Lead (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	31	0.0005	0	unknown	ShapiroWilk
Lead (mg/L)	MW-15A	No	n/a	n/a	NP (nrm)	NaN	18	0.009558	0.008973	unknown	ShapiroWilk
Lead (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0002524	0.00003183	unknown	ShapiroWilk
Lead (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	31	0.0008226	0.001255	unknown	ShapiroWilk
Lead (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003513	0.001221	unknown	ShapiroWilk
Lead (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.002018	0.006804	unknown	ShapiroWilk
Lead (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0006918	0.001567	unknown	ShapiroWilk
Lead (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0006571	0.0009297	unknown	ShapiroWilk
Lead (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0003954	0.0008012	unknown	ShapiroWilk
Lead (mg/L)	MW-31B	No	n/a	n/a	NP (nrm)	NaN	38	0.003463	0.003345	unknown	ShapiroWilk
Lead (mg/L)	MW-201A	No	n/a	n/a	NP (nrm)	NaN	36	0.0131	0.03223	unknown	ShapiroWilk
Lead (mg/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.0008551	0.001889	unknown	ShapiroWilk

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Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Lead (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.001218	0.00235	unknown	ShapiroWilk
Lead (mg/L)	MW-204A	No	n/a	n/a	NP (nrm)	NaN	31	0.002724	0.001752	unknown	ShapiroWilk
Lead (mg/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	33	0.0006705	0.0008718	unknown	ShapiroWilk
Lead (mg/L)	MW-209B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0007082	0.00249	unknown	ShapiroWilk
Lead (mg/L)	MW-210B	Yes	0.00912,0.00622	10/13/2011,10/11/2012	NP (nrm)	NaN	34	0.001153	0.001778	unknown	ShapiroWilk
Lead (mg/L)	MW-212A	Yes	0.0349,0.0131,0.0109	10/13/2011,10/11/2012,3/30/...	NP (nrm)	NaN	35	0.002176	0.006366	unknown	ShapiroWilk
Lead (mg/L)	MW-215A	No	n/a	n/a	NP (nrm)	NaN	29	0.0007843	0.0005492	unknown	ShapiroWilk
Lead (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	38	0.0008295	0.002148	unknown	ShapiroWilk
Lead (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0004754	0.001274	unknown	ShapiroWilk
Lead (mg/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.004569	0.002943	unknown	ShapiroWilk
Lead (mg/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.01014	0.05163	unknown	ShapiroWilk
Lead (mg/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.001474	0.003215	unknown	ShapiroWilk
Lead (mg/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.00202	0.007124	unknown	ShapiroWilk
Lead (mg/L)	MW-213A	No	n/a	n/a	NP (nrm)	NaN	33	0.002554	0.003872	unknown	ShapiroWilk
Lead (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	9	0.004	0	unknown	ShapiroWilk
Lead (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.00026	0	unknown	ShapiroWilk
Lead (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.00026	0	unknown	ShapiroWilk
Lead (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.0009174	0.001397	unknown	ShapiroWilk
Lead (mg/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	23	0.001438	0.002968	unknown	ShapiroWilk
Lead (mg/L)	MW-216A	No	n/a	n/a	NP (nrm)	NaN	29	0.003276	0.005844	unknown	ShapiroWilk
Lead (mg/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002325	0.008236	unknown	ShapiroWilk
Lead (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0004885	0.001266	unknown	ShapiroWilk
Lead (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0009721	0.002321	unknown	ShapiroWilk
Lead (mg/L)	MW-220A	Yes	0.0051,0.0111,0.0197,0...	8/1/2012,10/11/2012,12/13/2...	NP (nrm)	NaN	29	0.002368	0.00478	unknown	ShapiroWilk
Lead (mg/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.0002577	0.00003516	unknown	ShapiroWilk
Lead (mg/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.0003371	0.0002041	unknown	ShapiroWilk
Lead (mg/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.00026	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-11B	No	n/a	n/a	NP (nrm)	NaN	4	0.0001772	0.0000455	unknown	ShapiroWilk
Mercury (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0005	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0002	0	unknown	ShapiroWilk
Nickel (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	39	0.00461	0.001682	unknown	ShapiroWilk
Nickel (mg/L)	MW-1A	Yes	0.064,0.052	2/27/2008,5/12/2008	NP (nrm)	NaN	35	0.008211	0.01407	unknown	ShapiroWilk
Nickel (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.002309	0.001425	unknown	ShapiroWilk
Nickel (mg/L)	MW-2A-97	No	n/a	n/a	NP (nrm)	NaN	38	0.02362	0.01615	unknown	ShapiroWilk
Nickel (mg/L)	MW-5B	No	n/a	n/a	NP (nrm)	NaN	31	0.004333	0.001448	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Nickel (mg/L)	MW-6B	No	n/a	n/a	NP (nrm)	NaN	38	0.02913	0.0151	unknown	ShapiroWilk
Nickel (mg/L)	MW-7B1	No	n/a	n/a	NP (nrm)	NaN	34	0.01058	0.01261	unknown	ShapiroWilk
Nickel (mg/L)	MW-8B	No	n/a	n/a	NP (nrm)	NaN	34	0.01053	0.01148	unknown	ShapiroWilk
Nickel (mg/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.006467	0.01528	unknown	ShapiroWilk
Nickel (mg/L)	MW-11B	No	n/a	n/a	NP (nrm)	NaN	38	0.02278	0.0158	unknown	ShapiroWilk
Nickel (mg/L)	MW-12B	No	n/a	n/a	NP (nrm)	NaN	32	0.01988	0.01663	unknown	ShapiroWilk
Nickel (mg/L)	MW-14B	No	n/a	n/a	NP (nrm)	NaN	34	0.02454	0.02004	unknown	ShapiroWilk
Nickel (mg/L)	MW-15A	No	n/a	n/a	NP (nrm)	NaN	18	0.04318	0.01164	unknown	ShapiroWilk
Nickel (mg/L)	MW-16A	No	n/a	n/a	NP (nrm)	NaN	38	0.02492	0.02218	unknown	ShapiroWilk
Nickel (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	34	0.006138	0.006608	unknown	ShapiroWilk
Nickel (mg/L)	MW-18A-07	No	n/a	n/a	NP (nrm)	NaN	31	0.02857	0.02268	unknown	ShapiroWilk
Nickel (mg/L)	MW-23A	Yes	0.013,0.012,0.0007245	7/13/2008,10/25/2009,4/6/2015	NP (nrm)	NaN	31	0.004673	0.002544	unknown	ShapiroWilk
Nickel (mg/L)	MW-24A	No	n/a	n/a	NP (nrm)	NaN	37	0.01037	0.008121	unknown	ShapiroWilk
Nickel (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	0.004486	0.002539	unknown	ShapiroWilk
Nickel (mg/L)	MW-29A	Yes	0.00093,0.0292	4/17/2017,10/14/2022	NP (nrm)	NaN	35	0.007406	0.006374	unknown	ShapiroWilk
Nickel (mg/L)	MW-31B	Yes	0.038,0.023	2/27/2008,7/13/2008	NP (nrm)	NaN	38	0.005434	0.007934	unknown	ShapiroWilk
Nickel (mg/L)	MW-201A	No	n/a	n/a	NP (nrm)	NaN	33	0.01499	0.03664	unknown	ShapiroWilk
Nickel (mg/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.005404	0.003262	unknown	ShapiroWilk
Nickel (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.006219	0.004999	unknown	ShapiroWilk
Nickel (mg/L)	MW-204A	No	n/a	n/a	NP (nrm)	NaN	31	0.0113	0.008713	unknown	ShapiroWilk
Nickel (mg/L)	MW-208B	No	n/a	n/a	NP (nrm)	NaN	30	0.01652	0.009841	unknown	ShapiroWilk
Nickel (mg/L)	MW-209B	No	n/a	n/a	NP (nrm)	NaN	38	0.08024	0.03895	unknown	ShapiroWilk
Nickel (mg/L)	MW-210B	No	n/a	n/a	NP (nrm)	NaN	31	0.0248	0.0142	unknown	ShapiroWilk
Nickel (mg/L)	MW-212A	No	n/a	n/a	NP (nrm)	NaN	35	0.02329	0.03987	unknown	ShapiroWilk
Nickel (mg/L)	MW-215A	No	n/a	n/a	NP (nrm)	NaN	29	0.00432	0.002127	unknown	ShapiroWilk
Nickel (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.002558	0.002417	unknown	ShapiroWilk
Nickel (mg/L)	MW-207A	Yes	0.019	3/3/2010	NP (nrm)	NaN	35	0.004581	0.004675	unknown	ShapiroWilk
Nickel (mg/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.004722	0.001539	unknown	ShapiroWilk
Nickel (mg/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.02149	0.1028	unknown	ShapiroWilk
Nickel (mg/L)	MW-205A	No	n/a	n/a	NP (nrm)	NaN	33	0.02079	0.03031	unknown	ShapiroWilk
Nickel (mg/L)	MW-211B	No	n/a	n/a	NP (nrm)	NaN	35	0.05019	0.0237	unknown	ShapiroWilk
Nickel (mg/L)	MW-213A	Yes	0.039	9/13/2010	NP (nrm)	NaN	33	0.008472	0.008166	unknown	ShapiroWilk
Nickel (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	13	0.005165	0.000809	unknown	ShapiroWilk
Nickel (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.002087	0.00015	unknown	ShapiroWilk
Nickel (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.004798	0.001301	unknown	ShapiroWilk
Nickel (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.01184	0.0253	unknown	ShapiroWilk
Nickel (mg/L)	MW-39B (bg)	No	n/a	n/a	NP (nrm)	NaN	23	0.0171	0.02037	unknown	ShapiroWilk
Nickel (mg/L)	MW-216A	No	n/a	n/a	NP (nrm)	NaN	29	0.01823	0.02108	unknown	ShapiroWilk
Nickel (mg/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.006726	0.01829	unknown	ShapiroWilk
Nickel (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002049	0.0002733	unknown	ShapiroWilk
Nickel (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002028	0.0002843	unknown	ShapiroWilk
Nickel (mg/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.00908	0.03768	unknown	ShapiroWilk
Nickel (mg/L)	MW-18AR	No	n/a	n/a	EPA 1989	0.05	13	0.004192	0.001621	normal	ShapiroWilk
Nickel (mg/L)	MW-408	Yes	0.0191	10/14/2022	Dixon's	0.05	7	0.005323	0.006118	normal	ShapiroWilk
Nickel (mg/L)	MW-410	No	n/a	n/a	EPA 1989	0.05	7	0.00384	0.0009385	normal	ShapiroWilk
Selenium (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	36	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001523	0.0006623	unknown	ShapiroWilk
Selenium (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.001521	0.0007031	unknown	ShapiroWilk
Selenium (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001472	0.0004581	unknown	ShapiroWilk
Selenium (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.00378	0.0008099	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Selenium (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001475	0.0004962	unknown	ShapiroWilk
Selenium (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003968	0.0001701	unknown	ShapiroWilk
Selenium (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003946	0.0002835	unknown	ShapiroWilk
Selenium (mg/L)	MW-10B	No	n/a	n/a	NP (nrm)	NaN	12	0.004123	0.001004	unknown	ShapiroWilk
Selenium (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001541	0.0007622	unknown	ShapiroWilk
Selenium (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.003891	0.0005677	unknown	ShapiroWilk
Selenium (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003957	0.0002268	unknown	ShapiroWilk
Selenium (mg/L)	MW-15A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.005053	0.0002066	unknown	ShapiroWilk
Selenium (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001475	0.0004045	unknown	ShapiroWilk
Selenium (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003886	0.000603	unknown	ShapiroWilk
Selenium (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003815	0.000681	unknown	ShapiroWilk
Selenium (mg/L)	MW-23A	No	n/a	n/a	NP (nrm)	NaN	28	0.00331	0.001113	unknown	ShapiroWilk
Selenium (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003863	0.0005444	unknown	ShapiroWilk
Selenium (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	0.004929	0.0004192	unknown	ShapiroWilk
Selenium (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003914	0.0004573	unknown	ShapiroWilk
Selenium (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	38	0.001474	0.0004542	unknown	ShapiroWilk
Selenium (mg/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.003813	0.0006617	unknown	ShapiroWilk
Selenium (mg/L)	MW-202A	No	n/a	n/a	NP (nrm)	NaN	28	0.003186	0.001216	unknown	ShapiroWilk
Selenium (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003804	0.0007323	unknown	ShapiroWilk
Selenium (mg/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.003956	0.0006865	unknown	ShapiroWilk
Selenium (mg/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	30	0.004	0	unknown	ShapiroWilk
Selenium (mg/L)	MW-209B	n/a	n/a	n/a	NP (nrm)	NaN	38	0.001667	0.001581	unknown	ShapiroWilk
Selenium (mg/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	31	0.003916	0.000608	unknown	ShapiroWilk
Selenium (mg/L)	MW-212A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001508	0.0005743	unknown	ShapiroWilk
Selenium (mg/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.003694	0.0008645	unknown	ShapiroWilk
Selenium (mg/L)	MW-206A	No	n/a	n/a	NP (nrm)	NaN	38	0.004212	0.001426	unknown	ShapiroWilk
Selenium (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001399	0.000149	unknown	ShapiroWilk
Selenium (mg/L)	MW-214A	No	n/a	n/a	NP (nrm)	NaN	27	0.003798	0.00196	unknown	ShapiroWilk
Selenium (mg/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.004	0	unknown	ShapiroWilk
Selenium (mg/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.003804	0.0007395	unknown	ShapiroWilk
Selenium (mg/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001449	0.0001864	unknown	ShapiroWilk
Selenium (mg/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.003776	0.000837	unknown	ShapiroWilk
Selenium (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	9	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.001625	0.000755	unknown	ShapiroWilk
Selenium (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.001801	0.001502	unknown	ShapiroWilk
Selenium (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.004698	0.001028	unknown	ShapiroWilk
Selenium (mg/L)	MW-39B (bg)	No	n/a	n/a	NP (nrm)	NaN	23	0.004395	0.001173	unknown	ShapiroWilk
Selenium (mg/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.004199	0.0016	unknown	ShapiroWilk
Selenium (mg/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0014	0	unknown	ShapiroWilk
Selenium (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001388	0.00006685	unknown	ShapiroWilk
Selenium (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001374	0.0001413	unknown	ShapiroWilk
Selenium (mg/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001383	0.00009248	unknown	ShapiroWilk
Selenium (mg/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	7	0.004	0	unknown	ShapiroWilk
Selenium (mg/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.0065	0.01349	unknown	ShapiroWilk
Selenium (mg/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.0014	0	unknown	ShapiroWilk
Silver (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0009752	0.0001467	unknown	ShapiroWilk
Silver (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0005177	0.0001048	unknown	ShapiroWilk
Silver (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.004	0	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Silver (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	38	0.001201	0.003136	unknown	ShapiroWilk
Silver (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	28	0.004	0	unknown	ShapiroWilk
Silver (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.004821	0.005143	unknown	ShapiroWilk
Silver (mg/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.004	0	unknown	ShapiroWilk
Silver (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.004	0	unknown	ShapiroWilk
Silver (mg/L)	MW-15A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.02	0	unknown	ShapiroWilk
Silver (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0004904	0.00005696	unknown	ShapiroWilk
Silver (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003864	0.0007221	unknown	ShapiroWilk
Silver (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003728	0.001001	unknown	ShapiroWilk
Silver (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003876	0.0006551	unknown	ShapiroWilk
Silver (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003859	0.000747	unknown	ShapiroWilk
Silver (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0009753	0.0001464	unknown	ShapiroWilk
Silver (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003861	0.0007331	unknown	ShapiroWilk
Silver (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	38	0.0004888	0.00006894	unknown	ShapiroWilk
Silver (mg/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.003699	0.001062	unknown	ShapiroWilk
Silver (mg/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003964	0.0001909	unknown	ShapiroWilk
Silver (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003862	0.0007293	unknown	ShapiroWilk
Silver (mg/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003865	0.0007136	unknown	ShapiroWilk
Silver (mg/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.004374	0.002825	unknown	ShapiroWilk
Silver (mg/L)	MW-209B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001199	0.003113	unknown	ShapiroWilk
Silver (mg/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.003864	0.0007208	unknown	ShapiroWilk
Silver (mg/L)	MW-212A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0004891	0.0000644	unknown	ShapiroWilk
Silver (mg/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.003853	0.0007519	unknown	ShapiroWilk
Silver (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.003857	0.0007432	unknown	ShapiroWilk
Silver (mg/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.004	0	unknown	ShapiroWilk
Silver (mg/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.003732	0.001001	unknown	ShapiroWilk
Silver (mg/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0004919	0.00008062	unknown	ShapiroWilk
Silver (mg/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.004	0	unknown	ShapiroWilk
Silver (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	9	0.02	0	unknown	ShapiroWilk
Silver (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.0009642	0.0001753	unknown	ShapiroWilk
Silver (mg/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	23	0.001	0	unknown	ShapiroWilk
Silver (mg/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0004872	0.00008074	unknown	ShapiroWilk
Silver (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0004873	0.00006852	unknown	ShapiroWilk
Silver (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0004869	0.00007038	unknown	ShapiroWilk
Silver (mg/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	7	0.004	0	unknown	ShapiroWilk
Silver (mg/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.0005	0	unknown	ShapiroWilk
Silver (mg/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.0005	0	unknown	ShapiroWilk
Sulfide (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	12	1	0	unknown	ShapiroWilk
Sulfide (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	1	0	unknown	ShapiroWilk
Sulfide (mg/L)	MW-5B	No	n/a	n/a	NP (nrm)	NaN	4	0.9308	0.1385	unknown	ShapiroWilk
Sulfide (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	10	0.9449	2.258	unknown	ShapiroWilk
Sulfide (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	1	0	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Sulfide (mg/L)	MW-8B	No	n/a	n/a	NP (nrm)	NaN	20	1.782	3.629	unknown	ShapiroWilk
Sulfide (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	4	1	0	unknown	ShapiroWilk
Sulfide (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.1	0	unknown	ShapiroWilk
Sulfide (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	1	0	unknown	ShapiroWilk
Sulfide (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	10	0.2229	0.02561	unknown	ShapiroWilk
Sulfide (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	10	1	0	unknown	ShapiroWilk
Sulfide (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	1	0	unknown	ShapiroWilk
Sulfide (mg/L)	MW-209B	No	n/a	n/a	NP (nrm)	NaN	22	2.716	3.198	unknown	ShapiroWilk
Sulfide (mg/L)	MW-207A	Yes	2.08	3/30/2020	NP (nrm)	NaN	12	0.3388	0.5546	unknown	ShapiroWilk
Sulfide (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.1	0	unknown	ShapiroWilk
Sulfide (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	8	0.1	0	unknown	ShapiroWilk
Sulfide (mg/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	4	1	0	unknown	ShapiroWilk
Sulfide (mg/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	23	1.213	0.7641	unknown	ShapiroWilk
Sulfide (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.9522	0.1906	unknown	ShapiroWilk
Sulfide (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	14	1.893	3.341	unknown	ShapiroWilk
Sulfide (mg/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	11	0.5285	0.9626	unknown	ShapiroWilk
Sulfide (mg/L)	MW-407	n/a	n/a	n/a	NP (nrm)	NaN	10	0.4217	0.677	unknown	ShapiroWilk
Thallium (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0009319	0.002172	unknown	ShapiroWilk
Thallium (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0005846	0.0001408	unknown	ShapiroWilk
Thallium (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0005407	0.0001643	unknown	ShapiroWilk
Thallium (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001939	0.0003298	unknown	ShapiroWilk
Thallium (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0006742	0.0006376	unknown	ShapiroWilk
Thallium (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	30	0.001953	0.0002574	unknown	ShapiroWilk
Thallium (mg/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.00057	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0009618	0.0001733	unknown	ShapiroWilk
Thallium (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.001859	0.0005169	unknown	ShapiroWilk
Thallium (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001865	0.0005038	unknown	ShapiroWilk
Thallium (mg/L)	MW-15A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.002	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0009932	0.00004083	unknown	ShapiroWilk
Thallium (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001932	0.0003649	unknown	ShapiroWilk
Thallium (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.001956	0.0002358	unknown	ShapiroWilk
Thallium (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.001868	0.0004848	unknown	ShapiroWilk
Thallium (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	36	0.0009926	0.0000445	unknown	ShapiroWilk
Thallium (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.002	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	38	0.0005617	0.0003828	unknown	ShapiroWilk
Thallium (mg/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	25	0.001922	0.0003924	unknown	ShapiroWilk
Thallium (mg/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.002	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.002	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.002	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	0.001797	0.000582	unknown	ShapiroWilk
Thallium (mg/L)	MW-209B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0005553	0.00008558	unknown	ShapiroWilk
Thallium (mg/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.001927	0.0003799	unknown	ShapiroWilk
Thallium (mg/L)	MW-212A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0009176	0.0002558	unknown	ShapiroWilk
Thallium (mg/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.001924	0.0003865	unknown	ShapiroWilk
Thallium (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.0005694	0.00006393	unknown	ShapiroWilk
Thallium (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.00057	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.002002	0.0005594	unknown	ShapiroWilk

Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 6:35 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Thallium (mg/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.001906	0.0003582	unknown	ShapiroWilk
Thallium (mg/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.002	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.0005042	0.000177	unknown	ShapiroWilk
Thallium (mg/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.001927	0.0003776	unknown	ShapiroWilk
Thallium (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	8	0.002	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.00057	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.0009234	0.000205	unknown	ShapiroWilk
Thallium (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.0009667	0.0001633	unknown	ShapiroWilk
Thallium (mg/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	23	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.00057	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.0005687	0.000007149	unknown	ShapiroWilk
Thallium (mg/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.00057	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.00057	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.00057	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	7	0.002	0	unknown	ShapiroWilk
Thallium (mg/L)	MW-408	No	n/a	n/a	NP (nrm)	NaN	7	0.0008669	0.0002402	unknown	ShapiroWilk
Thallium (mg/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.0006457	0.0002003	unknown	ShapiroWilk
Tin (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	8	0.1	0	unknown	ShapiroWilk
Tin (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	23	0.05503	0.1197	unknown	ShapiroWilk
Tin (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	5	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-15A	n/a	n/a	n/a	NP (nrm)	NaN	11	0.1047	0.01085	unknown	ShapiroWilk
Tin (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	14	0.01692	0.03404	unknown	ShapiroWilk
Tin (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.005	0	unknown	ShapiroWilk
Tin (mg/L)	MW-39B (bg)	No	n/a	n/a	NP (nrm)	NaN	4	0.03775	0.0655	unknown	ShapiroWilk
Vanadium (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	0.004826	0.0007966	unknown	ShapiroWilk
Vanadium (mg/L)	MW-1A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.004814	0.02232	unknown	ShapiroWilk
Vanadium (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.0011	0	unknown	ShapiroWilk
Vanadium (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	36	0.001105	0.00003167	unknown	ShapiroWilk
Vanadium (mg/L)	MW-5B	No	n/a	n/a	NP (nrm)	NaN	29	0.01391	0.008579	unknown	ShapiroWilk
Vanadium (mg/L)	MW-6B	Yes	0.000813,0.000816,0.00...	10/5/2015,10/17/2016,4/25/2...	NP (nrm)	NaN	36	0.001117	0.0004339	unknown	ShapiroWilk
Vanadium (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	0.01691	0.006908	unknown	ShapiroWilk
Vanadium (mg/L)	MW-8B	No	n/a	n/a	NP (nrm)	NaN	33	0.01486	0.01213	unknown	ShapiroWilk
Vanadium (mg/L)	MW-10B	No	n/a	n/a	NP (nrm)	NaN	12	0.004141	0.001559	unknown	ShapiroWilk
Vanadium (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	36	0.001222	0.000707	unknown	ShapiroWilk

Outlier Analysis

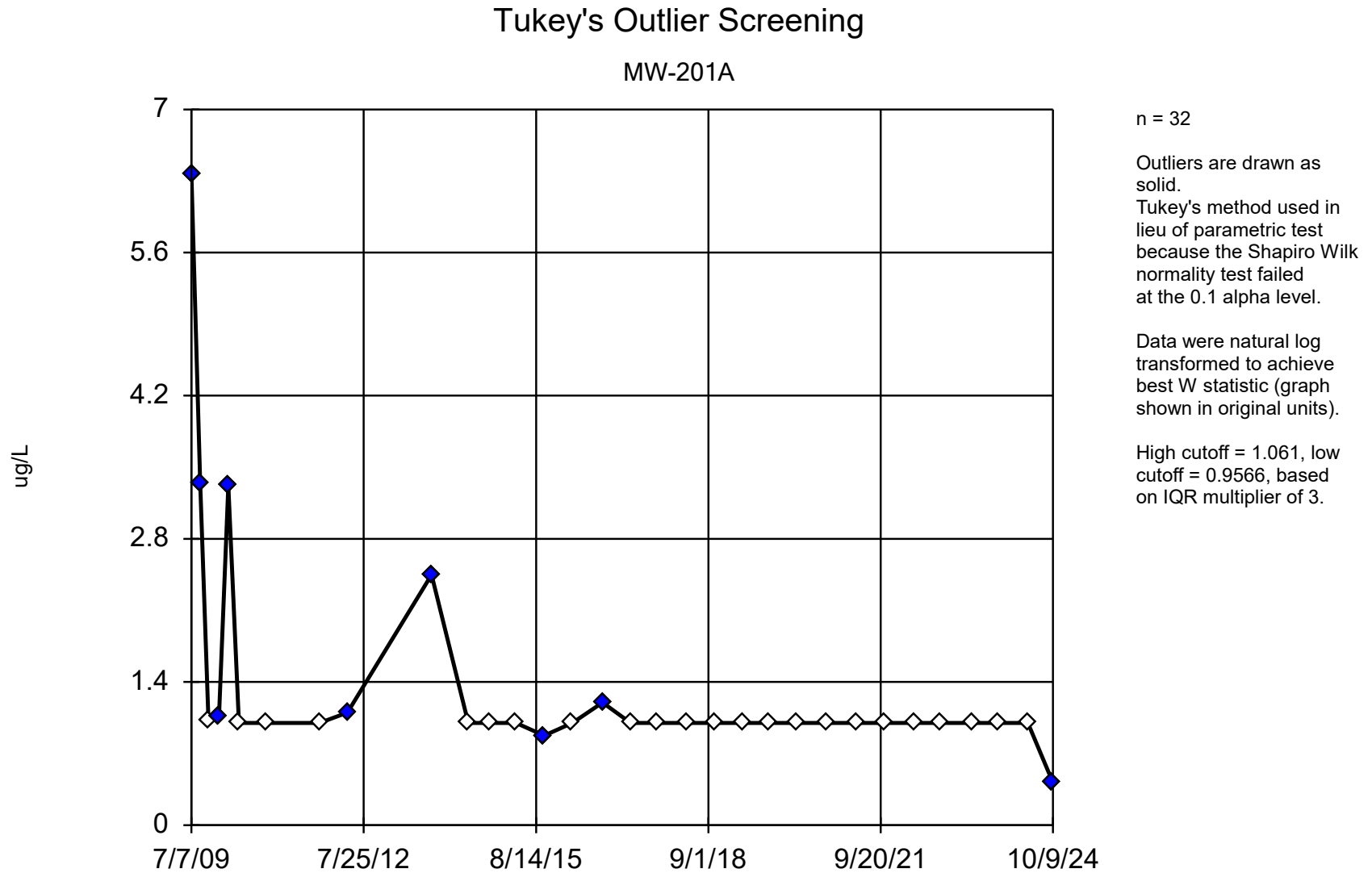
Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 6:36 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Vanadium (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.01941	0.003111	unknown	ShapiroWilk
Vanadium (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.01885	0.004309	unknown	ShapiroWilk
Vanadium (mg/L)	MW-15A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.05057	0.002275	unknown	ShapiroWilk
Vanadium (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.001038	0.0001635	unknown	ShapiroWilk
Vanadium (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	29	0.01608	0.007827	unknown	ShapiroWilk
Vanadium (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	29	0.01872	0.004792	unknown	ShapiroWilk
Vanadium (mg/L)	MW-23A	No	n/a	n/a	NP (nrm)	NaN	29	0.01544	0.008228	unknown	ShapiroWilk
Vanadium (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.01667	0.00728	unknown	ShapiroWilk
Vanadium (mg/L)	MW-25A-00	Yes	0.000681,0.000587,0.00...	4/6/2015,10/5/2015,4/4/2016...	NP (nrm)	NaN	36	0.004099	0.001698	unknown	ShapiroWilk
Vanadium (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.01805	0.005845	unknown	ShapiroWilk
Vanadium (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	38	0.003558	0.01036	unknown	ShapiroWilk
Vanadium (mg/L)	MW-201A	No	n/a	n/a	NP (nrm)	NaN	25	0.01335	0.009057	unknown	ShapiroWilk
Vanadium (mg/L)	MW-202A	No	n/a	n/a	NP (nrm)	NaN	27	0.01442	0.008776	unknown	ShapiroWilk
Vanadium (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.01855	0.005212	unknown	ShapiroWilk
Vanadium (mg/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.01857	0.005143	unknown	ShapiroWilk
Vanadium (mg/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	0.01861	0.004933	unknown	ShapiroWilk
Vanadium (mg/L)	MW-209B	No	n/a	n/a	NP (nrm)	NaN	34	0.01164	0.008136	unknown	ShapiroWilk
Vanadium (mg/L)	MW-210B	No	n/a	n/a	NP (nrm)	NaN	27	0.01187	0.009286	unknown	ShapiroWilk
Vanadium (mg/L)	MW-212A	No	n/a	n/a	NP (nrm)	NaN	34	0.01255	0.01126	unknown	ShapiroWilk
Vanadium (mg/L)	MW-215A	No	n/a	n/a	NP (nrm)	NaN	26	0.01317	0.008876	unknown	ShapiroWilk
Vanadium (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.001175	0.0004356	unknown	ShapiroWilk
Vanadium (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	34	0.001106	0.0004745	unknown	ShapiroWilk
Vanadium (mg/L)	MW-214A	No	n/a	n/a	NP (nrm)	NaN	26	0.01489	0.007938	unknown	ShapiroWilk
Vanadium (mg/L)	MW-200A	No	n/a	n/a	NP (nrm)	NaN	27	0.01596	0.02415	unknown	ShapiroWilk
Vanadium (mg/L)	MW-205A	No	n/a	n/a	NP (nrm)	NaN	27	0.01453	0.008628	unknown	ShapiroWilk
Vanadium (mg/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.005076	0.02261	unknown	ShapiroWilk
Vanadium (mg/L)	MW-213A	No	n/a	n/a	NP (nrm)	NaN	27	0.01471	0.008347	unknown	ShapiroWilk
Vanadium (mg/L)	MW-306A	n/a	n/a	n/a	NP (nrm)	NaN	8	0.05	0	unknown	ShapiroWilk
Vanadium (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.0011	0	unknown	ShapiroWilk
Vanadium (mg/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.0011	0	unknown	ShapiroWilk
Vanadium (mg/L)	MW-38A (bg)	No	n/a	n/a	NP (nrm)	NaN	24	0.009368	0.009229	unknown	ShapiroWilk
Vanadium (mg/L)	MW-39B (bg)	No	n/a	n/a	NP (nrm)	NaN	23	0.009339	0.009896	unknown	ShapiroWilk
Vanadium (mg/L)	MW-216A	Yes	0.0974,0.0865,0.123,0....	10/11/2012,12/13/2012,2/4/2...	NP (nrm)	NaN	29	0.0176	0.03776	unknown	ShapiroWilk
Vanadium (mg/L)	MW-217A	Yes	0.118,0.154,0.000869,0...	12/13/2012,10/7/2013,10/5/2...	NP (nrm)	NaN	29	0.01048	0.03511	unknown	ShapiroWilk
Vanadium (mg/L)	MW-218A	Yes	0.000504,0.00325	10/17/2016,10/16/2023	NP (nrm)	NaN	29	0.001208	0.0004264	unknown	ShapiroWilk
Vanadium (mg/L)	MW-219A	Yes	0.000788,0.000437,0.00...	10/5/2015,10/17/2016,4/17/2...	NP (nrm)	NaN	29	0.00111	0.0004507	unknown	ShapiroWilk
Vanadium (mg/L)	MW-220A	Yes	0.427,0.12,0.000728,0....	12/13/2012,2/4/2013,4/6/201...	NP (nrm)	NaN	29	0.01989	0.08135	unknown	ShapiroWilk
Vanadium (mg/L)	MW-18AR	No	n/a	n/a	NP (nrm)	NaN	7	0.01466	0.009126	unknown	ShapiroWilk
Vanadium (mg/L)	MW-408	No	n/a	n/a	NP (nrm)	NaN	7	0.01027	0.00827	unknown	ShapiroWilk
Vanadium (mg/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.00135	0.0006614	unknown	ShapiroWilk
Zinc (mg/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	40	0.02238	0.009813	unknown	ShapiroWilk
Zinc (mg/L)	MW-1A	Yes	0.229,0.121,0.0659,0.0...	2/27/2008,7/13/2008,11/17/2...	NP (nrm)	NaN	35	0.03336	0.06131	unknown	ShapiroWilk
Zinc (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	34	0.01417	0.02054	unknown	ShapiroWilk
Zinc (mg/L)	MW-2A-97	n/a	n/a	n/a	NP (nrm)	NaN	35	0.01509	0.01976	unknown	ShapiroWilk
Zinc (mg/L)	MW-5B	No	n/a	n/a	NP (nrm)	NaN	28	0.04104	0.03887	unknown	ShapiroWilk
Zinc (mg/L)	MW-6B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.01762	0.0303	unknown	ShapiroWilk
Zinc (mg/L)	MW-7B1	Yes	0.167,0.116,0.0671,0.0...	5/12/2008,9/14/2008,11/17/2...	NP (nrm)	NaN	28	0.03437	0.03552	unknown	ShapiroWilk
Zinc (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	31	0.03937	0.05076	unknown	ShapiroWilk
Zinc (mg/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.009459	0.0008343	unknown	ShapiroWilk
Zinc (mg/L)	MW-11B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.01839	0.02651	unknown	ShapiroWilk

Outlier Analysis

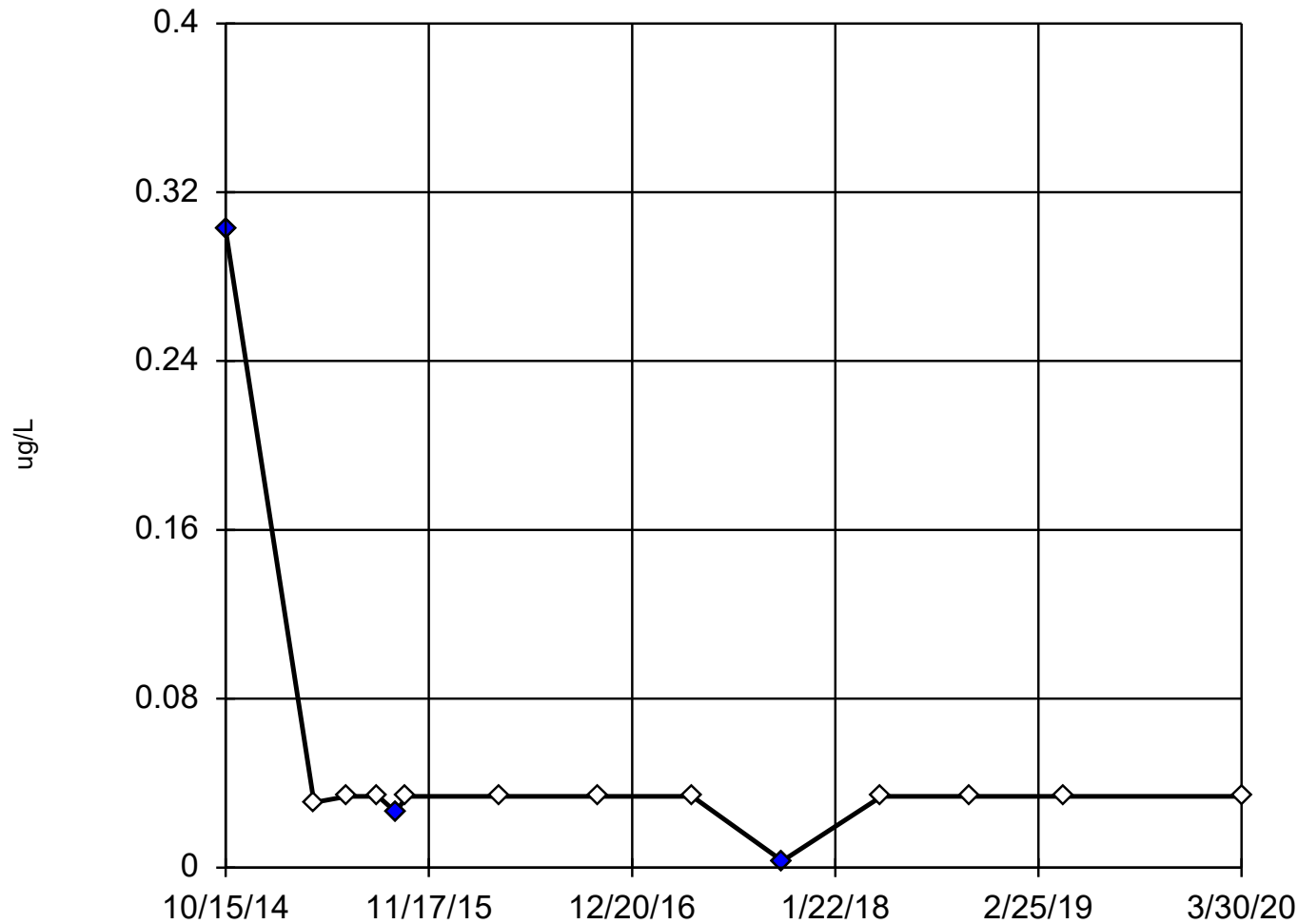
Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 6:36 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Zinc (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.0253	0.02196	unknown	ShapiroWilk
Zinc (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.02492	0.0219	unknown	ShapiroWilk
Zinc (mg/L)	MW-15A	No	n/a	n/a	NP (nrm)	NaN	15	0.06635	0.05753	unknown	ShapiroWilk
Zinc (mg/L)	MW-16A	n/a	n/a	n/a	NP (nrm)	NaN	35	0.01637	0.02068	unknown	ShapiroWilk
Zinc (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0231	0.01685	unknown	ShapiroWilk
Zinc (mg/L)	MW-18A-07	n/a	n/a	n/a	NP (nrm)	NaN	28	0.03373	0.04492	unknown	ShapiroWilk
Zinc (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0246	0.01591	unknown	ShapiroWilk
Zinc (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.02436	0.01703	unknown	ShapiroWilk
Zinc (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	0.02313	0.01723	unknown	ShapiroWilk
Zinc (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.0214	0.007427	unknown	ShapiroWilk
Zinc (mg/L)	MW-31B	Yes	0.101,0.0373,0.0407,0....	2/27/2008,4/11/2012,12/13/2...	NP (nrm)	NaN	38	0.01993	0.02883	unknown	ShapiroWilk
Zinc (mg/L)	MW-201A	No	n/a	n/a	NP (nrm)	NaN	29	0.0586	0.0896	unknown	ShapiroWilk
Zinc (mg/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.03241	0.05634	unknown	ShapiroWilk
Zinc (mg/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	31	0.02678	0.02109	unknown	ShapiroWilk
Zinc (mg/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.03038	0.0323	unknown	ShapiroWilk
Zinc (mg/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	30	0.02637	0.0242	unknown	ShapiroWilk
Zinc (mg/L)	MW-209B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.01709	0.02817	unknown	ShapiroWilk
Zinc (mg/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.02467	0.02518	unknown	ShapiroWilk
Zinc (mg/L)	MW-212A	Yes	0.0372,0.148,0.0282,0....	5/10/2010,10/13/2011,4/11/2...	NP (nrm)	NaN	37	0.02146	0.03132	unknown	ShapiroWilk
Zinc (mg/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.02482	0.01719	unknown	ShapiroWilk
Zinc (mg/L)	MW-206A	n/a	n/a	n/a	NP (nrm)	NaN	38	0.01912	0.03192	unknown	ShapiroWilk
Zinc (mg/L)	MW-207A	n/a	n/a	n/a	NP (nrm)	NaN	38	0.01495	0.01833	unknown	ShapiroWilk
Zinc (mg/L)	MW-214A	Yes	0.3605,0.255,0.506,0.188	7/7/2009,9/2/2009,5/10/2010...	NP (nrm)	NaN	29	0.0669	0.1163	unknown	ShapiroWilk
Zinc (mg/L)	MW-200A	Yes	1.38,0.11,0.0703,0.069...	3/3/2010,9/13/2010,4/4/2011...	NP (nrm)	NaN	30	0.07356	0.2476	unknown	ShapiroWilk
Zinc (mg/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.02676	0.03732	unknown	ShapiroWilk
Zinc (mg/L)	MW-211B	Yes	0.12,0.0819,0.196,0.08...	3/3/2010,4/4/2011,10/11/201...	NP (nrm)	NaN	35	0.0295	0.04807	unknown	ShapiroWilk
Zinc (mg/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.02886	0.0261	unknown	ShapiroWilk
Zinc (mg/L)	MW-306A	No	n/a	n/a	NP (nrm)	NaN	10	0.0498	0.04015	unknown	ShapiroWilk
Zinc (mg/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	16	0.01418	0.01462	unknown	ShapiroWilk
Zinc (mg/L)	MW-312A	No	n/a	n/a	NP (nrm)	NaN	14	0.0162	0.01409	unknown	ShapiroWilk
Zinc (mg/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.02847	0.03264	unknown	ShapiroWilk
Zinc (mg/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	23	0.02087	0.002895	unknown	ShapiroWilk
Zinc (mg/L)	MW-216A	No	n/a	n/a	NP (nrm)	NaN	29	0.05552	0.08482	unknown	ShapiroWilk
Zinc (mg/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.02744	0.05794	unknown	ShapiroWilk
Zinc (mg/L)	MW-218A	No	n/a	n/a	NP (nrm)	NaN	29	0.01951	0.01876	unknown	ShapiroWilk
Zinc (mg/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.01864	0.01961	unknown	ShapiroWilk
Zinc (mg/L)	MW-220A	Yes	0.54,0.17	12/13/2012,2/4/2013	NP (nrm)	NaN	29	0.04141	0.1019	unknown	ShapiroWilk
Zinc (mg/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	7	0.02	0	unknown	ShapiroWilk
Zinc (mg/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.0097	0	unknown	ShapiroWilk
Zinc (mg/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.009634	0.0001739	unknown	ShapiroWilk



Tukey's Outlier Screening

MW-208B



n = 14

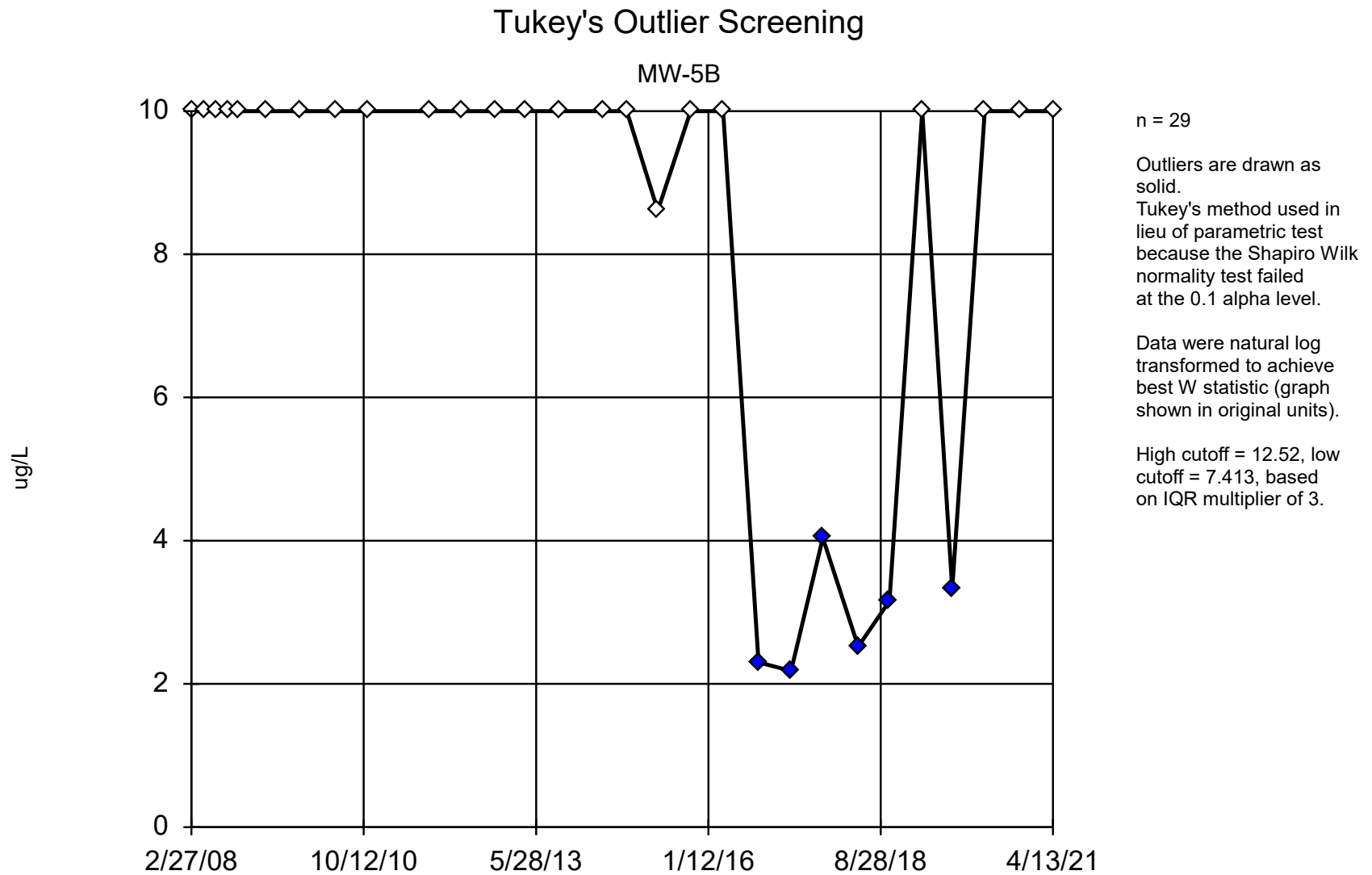
Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

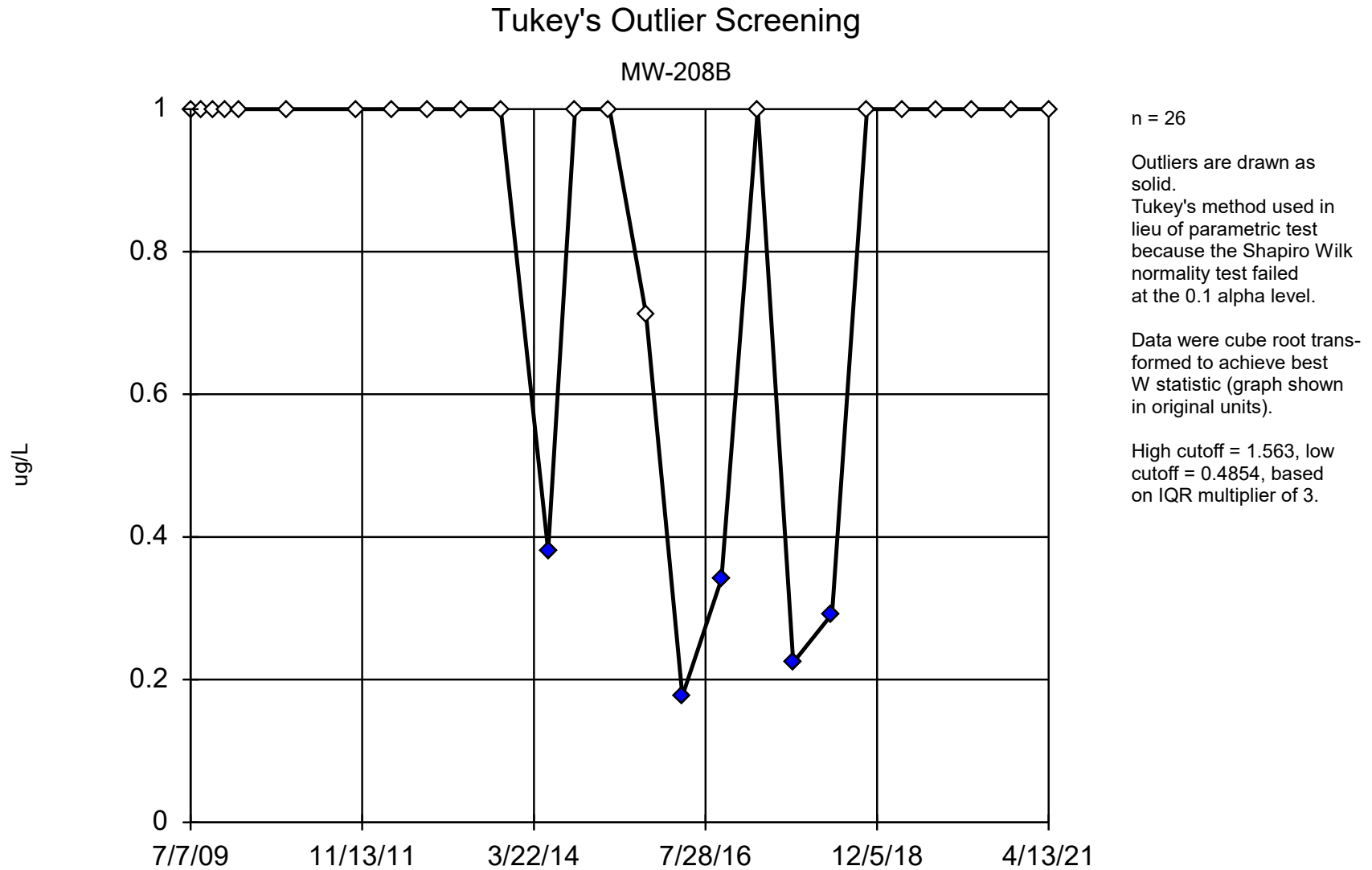
High cutoff = 0.03857,
low cutoff = 0.02815,
based on IQR multiplier of 3.

Constituent: 4,4'-DDD Analysis Run 1/21/2025 8:40 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill



Constituent: Acetone Analysis Run 1/21/2025 8:41 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

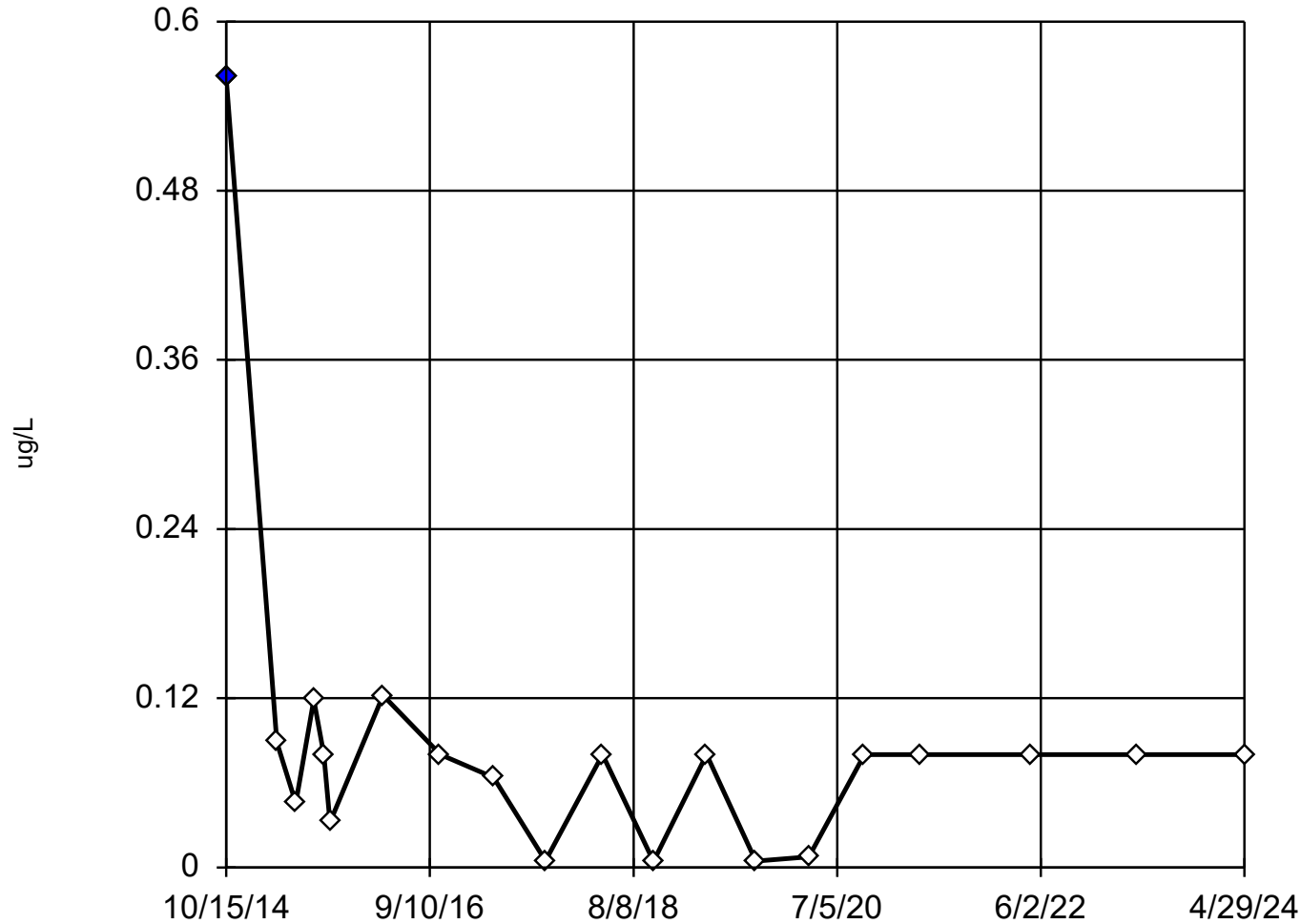


Constituent: cis-1,2-Dichloroethene Analysis Run 1/21/2025 8:47 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

Tukey's Outlier Screening

MW-208B



n = 20

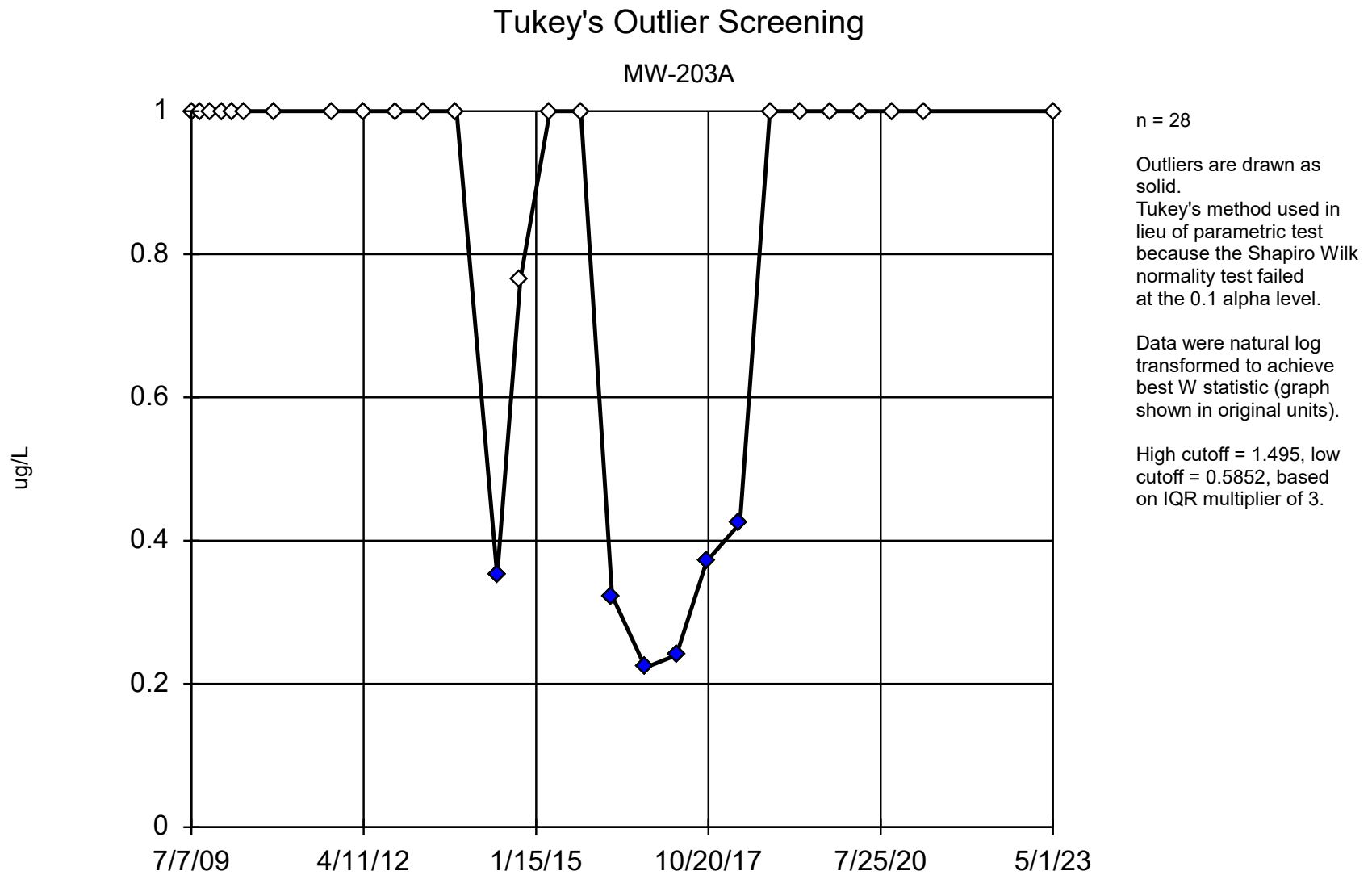
Outlier is drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.1 alpha level.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.3595,
low cutoff = 0.0001886,
based on IQR multiplier of 3.

Constituent: Endrin Analysis Run 1/21/2025 8:48 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

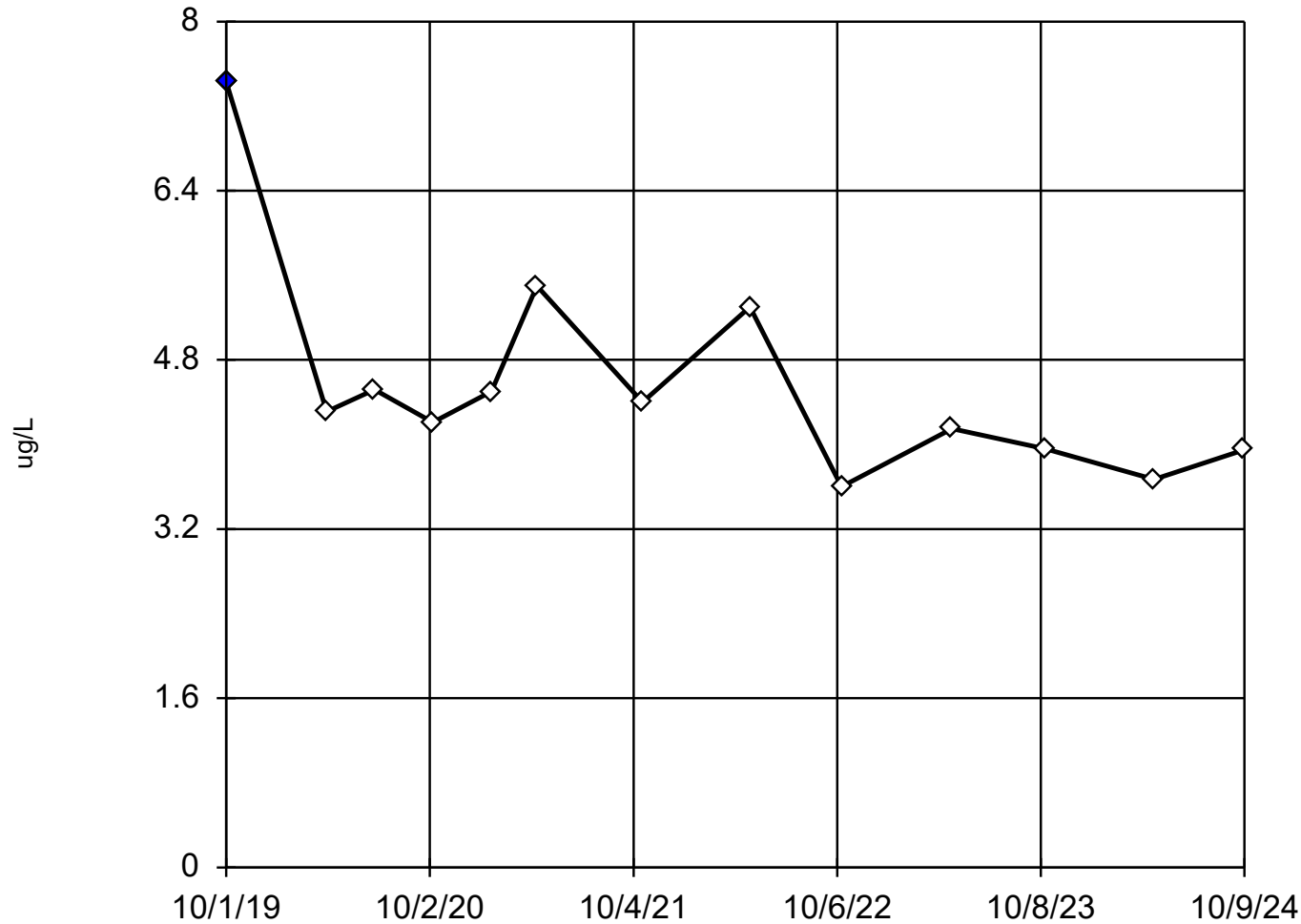


Constituent: Tetrachloroethene Analysis Run 1/21/2025 8:52 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

Dixon's Outlier Test

MW-18AR



n = 13

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 4.577.
Std. Dev. = 1.02.
7.43: c = 0.5665
tabl = 0.521.
Alpha = 0.05.

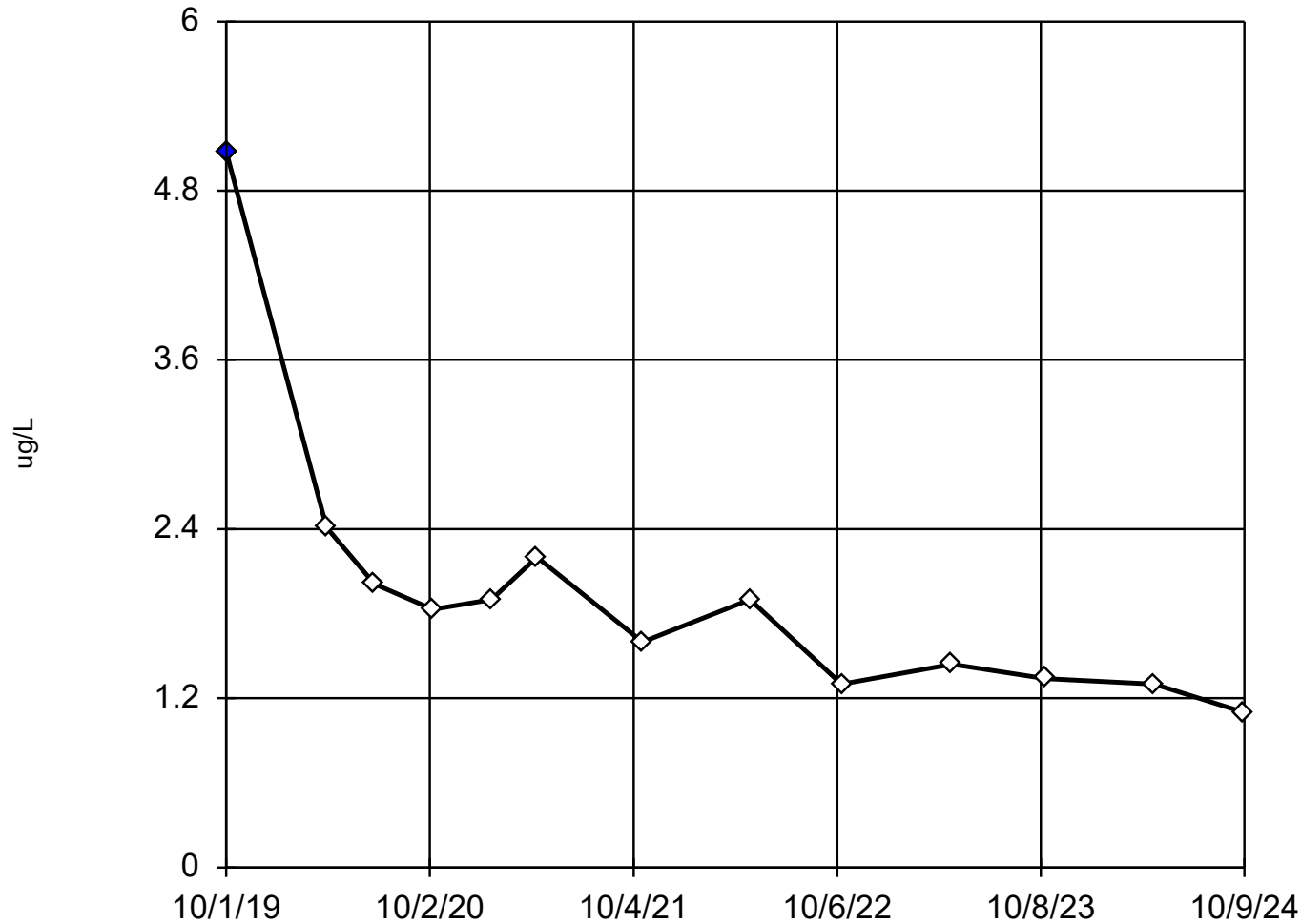
Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.9088
Critical = 0.883
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Tetrachloroethene Analysis Run 1/21/2025 8:52 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

Dixon's Outlier Test

MW-18AR



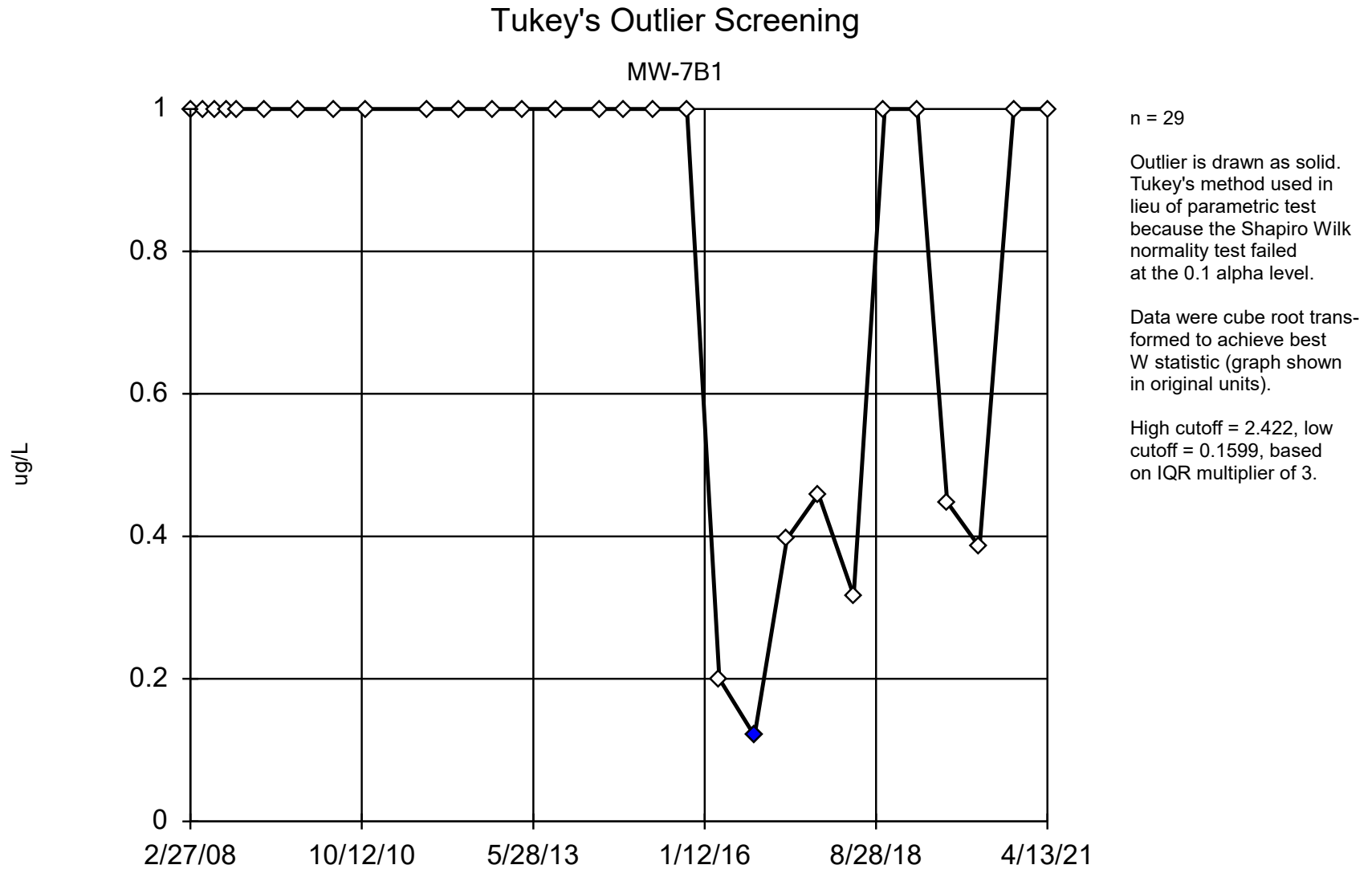
n = 13

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 1.955.
Std. Dev. = 1.017.
5.08: c = 0.7619
tab1 = 0.521.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.1
Calculated = 0.952
Critical = 0.883
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Trichloroethene Analysis Run 1/21/2025 8:54 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill



Constituent: Vinyl Chloride Analysis Run 1/21/2025 8:55 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 8:56 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
1,1,1-Trichloroethane (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.19	0	unknown	ShapiroWilk
1,1,1-Trichloroethane (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.19	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	38	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.2204	0.002366	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-7B1	No	n/a	n/a	NP (nrm)	NaN	29	1.523	0.4223	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-8B	No	n/a	n/a	EPA 1989	0.05	32	3.581	2.923	ln(x)	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-12B	No	n/a	n/a	NP (nrm)	NaN	33	1.412	0.9122	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-14B	No	n/a	n/a	NP (nrm)	NaN	29	0.9449	0.2259	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk

Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 8:56 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
1,1-Dichloroethane (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-201A	Yes	6.37,3.35,1.07,3.32,1....	7/7/2009,9/2/2009,1/2/2010,...	NP (nrm)	NaN	32	1.349	1.112	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.974	0.1374	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.9686	0.1537	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-18AR	No	n/a	n/a	NP (nrm)	NaN	13	0.7628	0.2847	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.22	0	unknown	ShapiroWilk
1,1-Dichloroethane (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.22	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.3959	0.03516	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.9422	0.2122	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	0.9729	0.1483	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.9716	0.1504	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.9327	0.195	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.9789	0.1097	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
1,2-Dichloroethane (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.39	0	unknown	ShapiroWilk
1,2-Dichloroethane (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.39	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1.054	0.2002	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.27	0	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
1,2-Dichloropropane (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.27	0	unknown	ShapiroWilk
1,2-Dichloropropane (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.27	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	10	1.08	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	1.04	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	1.04	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	1.03	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	1.04	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-12B	No	n/a	n/a	NP (nrm)	NaN	4	0.8325	0.495	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	1.05	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	1.04	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	1.05	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	1.04	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	1.07	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	1.04	0	unknown	ShapiroWilk
2,4,5-TP [Silvex] (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	1.04	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	8	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.8	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.5	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
2,4-Dimethylphenol (ug/L)	MW-219A	No	n/a	n/a	NP (nrm)	NaN	6	82.67	176.5	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	5	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	5	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	5	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	5	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	5	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	5	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	10	0	unknown	ShapiroWilk

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Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
2-Butanone [MEK] (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	5	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	10	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	2.428	1.764	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	2.1	0	unknown	ShapiroWilk
2-Butanone [MEK] (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	2.1	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	8	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.8	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.5	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
2-Methylnaphthalene (ug/L)	MW-219A	No	n/a	n/a	NP (nrm)	NaN	6	34.83	59.36	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	8	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.8	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.5	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
2-Methylphenol (ug/L)	MW-219A	No	n/a	n/a	NP (nrm)	NaN	6	305.5	722.4	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0333	0	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-8B	No	n/a	n/a	NP (nrm)	NaN	6	0.02752	0.007243	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.05	0	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.034	0	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk

Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 8:56 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
4,4'-DDD (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0344	0	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.033	0	unknown	ShapiroWilk
4,4'-DDD (ug/L)	MW-208B	Yes	0.302,0.0263,0.0032	10/15/2014,9/14/2015,10/11/...	NP (nrm)	NaN	14	0.04995	0.073	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0333	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	6	0.0333	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.05	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.034	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0344	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.033	0	unknown	ShapiroWilk
4,4'-DDT (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	19	0.07015	0.02424	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	31	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	5	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	5	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	5	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	5	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	5	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	5	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	5	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	9.642	1.755	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	10	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	2.083	0.09285	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	2.083	0.09285	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	2.072	0.1486	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	2.1	0	unknown	ShapiroWilk
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	1.957	0.378	unknown	ShapiroWilk
Acetone (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	10	0	unknown	ShapiroWilk
Acetone (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	3.117	0.1345	unknown	ShapiroWilk
Acetone (ug/L)	MW-5B	Yes	2.3,2.18,4.04,2.52,3.1...	10/17/2016,4/17/2017,10/11/...	NP (nrm)	NaN	29	8.487	2.921	unknown	ShapiroWilk
Acetone (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	9.332	2.023	unknown	ShapiroWilk
Acetone (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	9.856	4.557	unknown	ShapiroWilk
Acetone (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	3.1	0	unknown	ShapiroWilk
Acetone (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	9.339	2.006	unknown	ShapiroWilk
Acetone (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	8.979	2.602	unknown	ShapiroWilk
Acetone (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	9.542	1.754	unknown	ShapiroWilk
Acetone (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	9.956	2.251	unknown	ShapiroWilk
Acetone (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	9.519	1.767	unknown	ShapiroWilk
Acetone (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	9.562	1.809	unknown	ShapiroWilk
Acetone (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	3.074	0.2115	unknown	ShapiroWilk
Acetone (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	3.127	0.3567	unknown	ShapiroWilk
Acetone (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	3.108	0.04246	unknown	ShapiroWilk
Acetone (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	10	0	unknown	ShapiroWilk
Acetone (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	9.796	1.081	unknown	ShapiroWilk
Acetone (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	9.62	1.527	unknown	ShapiroWilk
Acetone (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	8.919	2.596	unknown	ShapiroWilk
Acetone (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	9.083	2.31	unknown	ShapiroWilk
Acetone (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	9.142	2.446	unknown	ShapiroWilk
Acetone (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	9.203	2.306	unknown	ShapiroWilk
Acetone (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	3.19	0.5188	unknown	ShapiroWilk
Acetone (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	9.494	1.514	unknown	ShapiroWilk
Acetone (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	3.559	1.468	unknown	ShapiroWilk
Acetone (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	9.359	1.938	unknown	ShapiroWilk
Acetone (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	3.1	0	unknown	ShapiroWilk
Acetone (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	3.1	0	unknown	ShapiroWilk
Acetone (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	9.016	2.664	unknown	ShapiroWilk
Acetone (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	9.421	1.992	unknown	ShapiroWilk
Acetone (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	3.105	0.02785	unknown	ShapiroWilk
Acetone (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	3.13	0.1486	unknown	ShapiroWilk
Acetone (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	3.07	0.1597	unknown	ShapiroWilk
Acetone (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	3.14	0.2173	unknown	ShapiroWilk
Acetone (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	3.1	0	unknown	ShapiroWilk
Acetone (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	3.1	0	unknown	ShapiroWilk
Acetone (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	3.1	0	unknown	ShapiroWilk
Acetone (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	3.1	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	41	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-8B	No	n/a	n/a	NP (nrm)	NaN	28	0.7106	0.3683	unknown	ShapiroWilk
Benzene (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.22	0	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Benzene (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.2167	0.01838	unknown	ShapiroWilk
Benzene (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-204A	No	n/a	n/a	NP (nrm)	NaN	31	2.891	2.556	unknown	ShapiroWilk
Benzene (ug/L)	MW-208B	No	n/a	n/a	NP (nrm)	NaN	26	0.4182	0.09963	unknown	ShapiroWilk
Benzene (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-205A	No	n/a	n/a	EPA 1989	0.05	30	3.549	4.364	ln(x)	ShapiroWilk
Benzene (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.489	0.05821	unknown	ShapiroWilk
Benzene (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.5	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	0.4947	0.02592	unknown	ShapiroWilk
Benzene (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.22	0	unknown	ShapiroWilk
Benzene (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.22	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-5B	No	n/a	n/a	NP (nrm)	NaN	4	7.847	5.106	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	8	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.8	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.5	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
Benzyl alcohol (ug/L)	MW-219A	No	n/a	n/a	NP (nrm)	NaN	6	33.17	55.28	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	7	0.032	0	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0333	0	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	6	0.0333	0	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Beta-BHC (ug/L)	MW-12B	No	n/a	n/a	NP (nrm)	NaN	4	0.03907	0.02187	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.034	0	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0344	0	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Beta-BHC (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.033	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	8	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.8	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.5	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
Bis[2-chloroethoxy]methane (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	5	10.6	0	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-5B	No	n/a	n/a	NP (nrm)	NaN	4	8.79	3.22	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-7B1	No	n/a	n/a	NP (nrm)	NaN	4	7.97	4.859	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-8B	No	n/a	n/a	NP (nrm)	NaN	4	7.822	4.755	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-12B	No	n/a	n/a	NP (nrm)	NaN	6	8.976	4.155	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-14B	No	n/a	n/a	NP (nrm)	NaN	4	8.155	4.09	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-17A-00	No	n/a	n/a	NP (nrm)	NaN	4	7.992	4.816	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-23A	No	n/a	n/a	NP (nrm)	NaN	4	9.473	2.655	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-24A	No	n/a	n/a	NP (nrm)	NaN	4	9.658	1.285	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-25A-00	No	n/a	n/a	NP (nrm)	NaN	4	8.438	4.125	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-31B	No	n/a	n/a	NP (nrm)	NaN	13	7.952	5.033	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-201A	No	n/a	n/a	NP (nrm)	NaN	12	8.413	4.498	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-215A	No	n/a	n/a	NP (nrm)	NaN	12	7.272	4.698	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-214A	No	n/a	n/a	NP (nrm)	NaN	12	6.928	5.338	unknown	ShapiroWilk
Bis[2-ethylhexyl]phthalate (ug/L)	MW-219A	No	n/a	n/a	NP (nrm)	NaN	5	8.93	3.734	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	31	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	0.9814	0.1022	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.45	0	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Carbon Disulfide (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.9707	0.136	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.5917	0.453	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.45	0.0001857	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.45	0	unknown	ShapiroWilk
Carbon Disulfide (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.45	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	31	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.8483	1.217	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1.954	0.2704	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.6486	0.008333	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.6462	0.02402	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.65	0	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Carbon Tetrachloride (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.6321	0.06682	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	2	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.6431	0.03714	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.65	0	unknown	ShapiroWilk
Carbon Tetrachloride (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.65	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	31	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.9712	0.1497	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.4	0	unknown	ShapiroWilk
Chlorobenzene (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.4	0	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Chlorobenzene (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	38	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	1.028	0.1119	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	3.68	0.9743	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	3.89	0.6041	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-204A	No	n/a	n/a	NP (nrm)	NaN	27	1.736	1.534	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	1.804	2.053	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	4	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.79	0	unknown	ShapiroWilk
Chloroethane (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.79	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	31	2.839	0.6252	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.9825	0.09279	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	2.909	0.4902	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.9807	0.1038	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	2.913	0.4765	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	3	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	2.907	0.4934	unknown	ShapiroWilk

Outlier Analysis

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Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Chloromethane (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	3	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.6063	0.02338	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	2.908	0.4874	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	2.911	0.4698	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.9849	0.07871	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1.009	0.2203	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	3	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	3	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	3.006	0.03079	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.6044	0.0322	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.9827	0.09007	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	3	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	2.892	0.5293	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	3	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.6	0.05367	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.601	0.04847	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.61	0	unknown	ShapiroWilk
Chloromethane (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.61	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	38	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.2269	0.09973	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	0.9642	0.1391	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.9481	0.1915	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.9717	0.1523	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	0.9719	0.1539	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.4001	0.5029	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-208B	Yes	0.381,0.177,0.341,0.22...	6/2/2014,4/4/2016,10/17/201...	NP (nrm)	NaN	26	0.851	0.2901	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.21	0	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
cis-1,2-Dichloroethene (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.9604	0.17	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.9718	0.1491	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-18AR	No	n/a	n/a	NP (nrm)	NaN	13	2.515	2.067	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.21	0	unknown	ShapiroWilk
cis-1,2-Dichloroethene (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.21	0	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0327	0	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-1B	No	n/a	n/a	NP (nrm)	NaN	4	0.0247	0.0146	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0333	0	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	6	0.0333	0	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.05	0	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.034	0	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-17A-00	No	n/a	n/a	NP (nrm)	NaN	4	0.02517	0.01505	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0344	0	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-31B	No	n/a	n/a	NP (nrm)	NaN	4	0.02524	0.01491	unknown	ShapiroWilk
Delta-BHC (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.08331	0.04567	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	14	3	0	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	3	0	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	3	0	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	3	0	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-8B	No	n/a	n/a	NP (nrm)	NaN	4	2.36	1.281	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	1	0	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	3	0	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-17A-00	No	n/a	n/a	EPA 1989	0.05	4	1.783	1.428	normal	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	3	0	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	3	0	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	3	0	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	3	0	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	3	0	unknown	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-200A	No	n/a	n/a	EPA 1989	0.05	25	2.233	1.032	normal	ShapiroWilk
Dichlorodifluoromethane (ug/L)	MW-18AR	No	n/a	n/a	EPA 1989	0.05	13	14.31	8.188	normal	ShapiroWilk
Endrin (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Endrin (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Endrin (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0333	0	unknown	ShapiroWilk
Endrin (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	6	0.0333	0	unknown	ShapiroWilk
Endrin (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.05	0	unknown	ShapiroWilk
Endrin (ug/L)	MW-14B	No	n/a	n/a	NP (nrm)	NaN	4	0.02682	0.01436	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Endrin (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Endrin (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Endrin (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Endrin (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0344	0	unknown	ShapiroWilk
Endrin (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Endrin (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.033	0	unknown	ShapiroWilk
Endrin (ug/L)	MW-208B	Yes	0.56	10/15/2014	NP (nrm)	NaN	20	0.08863	0.1166	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	9	0.032	0	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0333	0	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-8B	No	n/a	n/a	NP (nrm)	NaN	6	0.02952	0.009267	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-12B	No	n/a	n/a	NP (nrm)	NaN	4	0.02778	0.01185	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.034	0	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0344	0	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.033	0	unknown	ShapiroWilk
Endrin aldehyde (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	4	0.032	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	31	1.203	0.7403	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Ethylbenzene (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.31	0	unknown	ShapiroWilk
Ethylbenzene (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.31	0	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	9	0.032	0	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-5B	No	n/a	n/a	NP (nrm)	NaN	4	0.0262	0.01501	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	5	0.0333	0	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	6	0.0333	0	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.05	0	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-14B	No	n/a	n/a	NP (nrm)	NaN	4	0.02665	0.0147	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-17A-00	No	n/a	n/a	NP (nrm)	NaN	4	0.02664	0.01332	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0333	0	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0344	0	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	0.0337	0	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.033	0	unknown	ShapiroWilk
Heptachlor (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	10	0.03033	0.007338	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	10	0	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	10	0	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	10	0	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	10	0	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	1	0	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	10	0	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10	0	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	10	0	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	10	0	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10	0	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	10	0	unknown	ShapiroWilk
Isobutanol (mg/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	10	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	8	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.8	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.5	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
m/p-Cresol (ug/L)	MW-219A	No	n/a	n/a	NP (nrm)	NaN	6	383.8	914.2	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
O-Toluidine (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	8	0	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.8	0	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.5	0	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
O-Toluidine (ug/L)	MW-219A	No	n/a	n/a	NP (nrm)	NaN	6	118.5	264.3	unknown	ShapiroWilk
Phenol (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	8	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.2	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.4	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.8	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	10.5	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	10.3	0	unknown	ShapiroWilk
Phenol (ug/L)	MW-219A	No	n/a	n/a	NP (nrm)	NaN	6	510.5	1224	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	38	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.492	0.1762	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-203A	Yes	0.351,0.323,0.223,0.24...	6/2/2014,4/4/2016,10/17/201...	NP (nrm)	NaN	28	0.8463	0.2843	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.4806	0.003482	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Tetrachloroethene (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-18AR	Yes	7.43	10/1/2019	Dixon's	0.05	13	4.577	1.02	normal	ShapiroWilk
Tetrachloroethene (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.48	0	unknown	ShapiroWilk
Tetrachloroethene (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.48	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.534	0.6153	unknown	ShapiroWilk
Toluene (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	0.9849	0.2105	unknown	ShapiroWilk
Toluene (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.9714	0.1512	unknown	ShapiroWilk
Toluene (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	1.109	0.3782	unknown	ShapiroWilk
Toluene (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1.136	0.7431	unknown	ShapiroWilk
Toluene (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.4259	0.02298	unknown	ShapiroWilk
Toluene (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	0.9863	0.07111	unknown	ShapiroWilk
Toluene (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.9698	0.2424	unknown	ShapiroWilk
Toluene (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.4223	0.04384	unknown	ShapiroWilk
Toluene (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.4207	0.03474	unknown	ShapiroWilk
Toluene (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.43	0	unknown	ShapiroWilk
Toluene (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.43	0	unknown	ShapiroWilk

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Toxaphene (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	7	2	0	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	4	2.08	0	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	4	2.11	0	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	18	2.095	0.06364	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	19	2.985	2.417	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	4	0.2	0	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	4	2.13	0	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	2.08	0	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	4	2.11	0	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	4	2.08	0	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	4	2.15	0	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	4	2.11	0	unknown	ShapiroWilk
Toxaphene (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	4	2.06	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.27	0	unknown	ShapiroWilk
trans-1,2-Dichloroethene (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.27	0	unknown	ShapiroWilk

Outlier Analysis

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Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
trans-1,2-Dichloroethene (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.27	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	38	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.7498	0.948	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.4291	0.005222	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	0.9778	0.1155	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.4291	0.005303	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-18AR	Yes	5.08	10/1/2019	Dixon's	0.05	13	1.955	1.017	normal	ShapiroWilk
Trichloroethene (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.43	0	unknown	ShapiroWilk
Trichloroethene (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.43	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	35	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-17A-00	No	n/a	n/a	NP (nrm)	NaN	30	2.656	1.797	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	4	0	unknown	ShapiroWilk

Outlier Analysis

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Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Trichlorofluoromethane (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.3547	0.06111	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	4	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-18AR	No	n/a	n/a	EPA 1989	0.05	13	6.412	6.589	ln(x)	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.38	0	unknown	ShapiroWilk
Trichlorofluoromethane (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.38	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	38	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-7B1	Yes	0.12	10/17/2016	NP (nrm)	NaN	29	0.8388	0.2968	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	0.9715	0.1508	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	0.9655	0.1761	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.18	0	unknown	ShapiroWilk

Outlier Analysis

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<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Vinyl Chloride (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	28	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	1	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-18AR	No	n/a	n/a	NP (nrm)	NaN	13	0.2438	0.1167	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.18	0	unknown	ShapiroWilk
Vinyl Chloride (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.18	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-34A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	31	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-1B	n/a	n/a	n/a	NP (nrm)	NaN	35	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-5B	n/a	n/a	n/a	NP (nrm)	NaN	29	2	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-7B1	n/a	n/a	n/a	NP (nrm)	NaN	29	2	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-8B	n/a	n/a	n/a	NP (nrm)	NaN	28	2	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-10B	n/a	n/a	n/a	NP (nrm)	NaN	12	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-12B	n/a	n/a	n/a	NP (nrm)	NaN	29	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-14B	n/a	n/a	n/a	NP (nrm)	NaN	29	2	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-17A-00	n/a	n/a	n/a	NP (nrm)	NaN	30	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-23A	n/a	n/a	n/a	NP (nrm)	NaN	30	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-24A	n/a	n/a	n/a	NP (nrm)	NaN	28	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-25A-00	n/a	n/a	n/a	NP (nrm)	NaN	35	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-29A	n/a	n/a	n/a	NP (nrm)	NaN	36	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-31B	n/a	n/a	n/a	NP (nrm)	NaN	39	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-201A	n/a	n/a	n/a	NP (nrm)	NaN	32	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-202A	n/a	n/a	n/a	NP (nrm)	NaN	28	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-203A	n/a	n/a	n/a	NP (nrm)	NaN	28	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-204A	n/a	n/a	n/a	NP (nrm)	NaN	27	2.013	0.9289	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-208B	n/a	n/a	n/a	NP (nrm)	NaN	26	2	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-210B	n/a	n/a	n/a	NP (nrm)	NaN	27	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-215A	n/a	n/a	n/a	NP (nrm)	NaN	26	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-214A	n/a	n/a	n/a	NP (nrm)	NaN	27	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-200A	n/a	n/a	n/a	NP (nrm)	NaN	33	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-205A	n/a	n/a	n/a	NP (nrm)	NaN	27	2	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-211B	n/a	n/a	n/a	NP (nrm)	NaN	32	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-213A	n/a	n/a	n/a	NP (nrm)	NaN	28	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-310A	n/a	n/a	n/a	NP (nrm)	NaN	15	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-312A	n/a	n/a	n/a	NP (nrm)	NaN	14	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-38A (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-39B (bg)	n/a	n/a	n/a	NP (nrm)	NaN	24	3	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-216A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-217A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-218A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-219A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-220A	n/a	n/a	n/a	NP (nrm)	NaN	29	0.4	0	unknown	ShapiroWilk

Outlier Analysis

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 8:56 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Xylenes, Total (ug/L)	MW-18AR	n/a	n/a	n/a	NP (nrm)	NaN	13	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-408	n/a	n/a	n/a	NP (nrm)	NaN	7	0.4	0	unknown	ShapiroWilk
Xylenes, Total (ug/L)	MW-410	n/a	n/a	n/a	NP (nrm)	NaN	7	0.4	0	unknown	ShapiroWilk

Groundwater Monitoring Wells –
Flagged Outliers

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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 4:47 PM

MW-200A Arsenic (mg/L) MW-220A Arsenic (mg/L) MW-200A Barium (mg/L) MW-216A Barium (mg/L) MW-217A Barium (mg/L) MW-220A Barium (mg/L) MW-200A Beryllium (mg/L) MW-38A Beryllium (mg/L) MW-216A Beryllium (mg/L) MW-217A Cadmium (mg/L)

MW-219A Cadmium (mg/L) MW-408 Cadmium (mg/L) MW-200A Chromium (mg/L) MW-216A Chromium (mg/L) MW-217A Chromium (mg/L) MW-220A Chromium (mg/L) MW-200A Cobalt (mg/L) MW-310A Cobalt (mg/L) MW-217A Cobalt (mg/L) MW-408 Cobalt (mg/L)

Flagged_Outliers

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 4:47 PM

	MW-34A Copper (mg/L)	MW-10B Copper (mg/L)	MW-201A Copper (mg/L)	MW-200A Copper (mg/L)	MW-39B Copper (mg/L)	MW-216A Copper (mg/L)	MW-220A Copper (mg/L)	MW-18AR Copper (mg/L)	MW-29A Cyanide (mg/L)	MW-200A Lead (mg/L)
2/27/2008		0.029 (o)								
5/12/2008	0.03 (o)	0.037 (o)								
1/2/2010			0.2 (o)							
3/3/2010				0.63 (o)						0.31 (o)
5/10/2010									0.154 (o)	
9/13/2010										
12/5/2011										
8/1/2012										
10/11/2012										
12/13/2012						0.0466 (o)		0.431 (o)		
2/4/2013								0.326 (o)		
7/10/2013						0.0501 (o)				
10/7/2013						0.0201 (o)				
5/1/2018										
5/2/2018										
10/16/2018					0.0129 (o)					
10/1/2019								0.00303 (Jo)		
10/14/2022								0.0048 (o)		
10/16/2023										
4/29/2024										

	MW-31B Nickel (mg/L)	MW-200A Nickel (mg/L)	MW-220A Nickel (mg/L)	MW-408 Nickel (mg/L)	MW-408 Selenium (mg/L)	MW-216A Sulfide (mg/L)	MW-219A Sulfide (mg/L)	MW-31B Vanadium (mg/L)	MW-200A Vanadium (mg/L)	MW-39B Vanadium (mg/L)
2/27/2008	0.038 (o)							0.0642 (o)		
5/12/2008										
1/2/2010										
3/3/2010		0.62 (o)							0.128 (o)	
5/10/2010										
9/13/2010										
12/5/2011										
8/1/2012										
10/11/2012										
12/13/2012			0.205 (o)							
2/4/2013										
7/10/2013										
10/7/2013										
5/1/2018					4.45 (o)					
5/2/2018						13.5 (o)				
10/16/2018									0.0302 (o)	
10/1/2019										
10/14/2022				0.0191 (o)						
10/16/2023										
4/29/2024					0.0371 (o)					

Flagged_Outliers

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 4:47 PM

MW-217A Vanadium (mg/L) MW-218A Vanadium (mg/L) MW-219A Vanadium (mg/L) MW-220A Vanadium (mg/L) MW-31B Zinc (mg/L) MW-200A Zinc (mg/L) MW-38A Zinc (mg/L) MW-220A Zinc (mg/L)

2/27/2008				0.101 (o)			
5/12/2008							
1/2/2010							
3/3/2010				1.38 (o)			
5/10/2010							
9/13/2010							
12/5/2011							
8/1/2012							
10/11/2012							
12/13/2012	0.118 (o)		0.427 (o)			0.54 (o)	
2/4/2013			0.12 (o)				
7/10/2013							
10/7/2013	0.154 (o)			0.161 (o)		0.18 (o)	
5/1/2018							
5/2/2018							
10/16/2018							
10/1/2019							
10/14/2022							
10/16/2023		0.00325 (Jo)	0.00332 (Jo)				
4/29/2024							

Flagged_Outliers

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:18 PM

MW-201A 1,1-Dichloroethane (ug/L) MW-219A 2,4-Dimethylphenol (ug/L) MW-216A 2-Butanone [MEK] (ug/L) MW-219A 2-Methylnaphthalene (ug/L) MW-219A 2-Methylphenol (ug/L) MW-208B 4,4'-DDD (ug/L) MW-8B Acetone (ug/L) MW-23A Acetone (ug/L) MW-219A Benzyl alcohol (ug/L) MW-1B Carbon Tetrachloride (ug/L)

9/14/2008										
4/14/2009										
7/7/2009	6.37 (o)									
10/25/2009						19.3 (o)				
3/30/2013									7.84 (o)	
7/10/2013		443 (o)		156 (o)	1780 (o)			146 (o)		
10/15/2014					0.302 (o)					
4/25/2018						30.3 (o)				
10/16/2018										
10/1/2019										
10/7/2020			11.6 (o)							

MW-18AR cis-1,2-Dichloroethene (ug/L) MW-218A Delta-BHC (ug/L) MW-208B Endrin (ug/L) MW-204A Ethylbenzene (ug/L) MW-219A m/p-Cresol (ug/L) MW-219A O-Toluidine (ug/L) MW-219A Phenol (ug/L) MW-18AR Tetrachloroethene (ug/L) MW-1B Toluene (ug/L) MW-5B Toluene (ug/L)

9/14/2008										
4/14/2009										
7/7/2009			5.01 (o)							
10/25/2009										
3/30/2013										
7/10/2013		0.242 (o)			2250 (o)	658 (o)	3010 (o)			
10/15/2014			0.56 (o)							
4/25/2018										
10/16/2018								1.82 (o)		
10/1/2019	9.09 (o)					7.43 (o)				
10/7/2020							4.07 (o)			

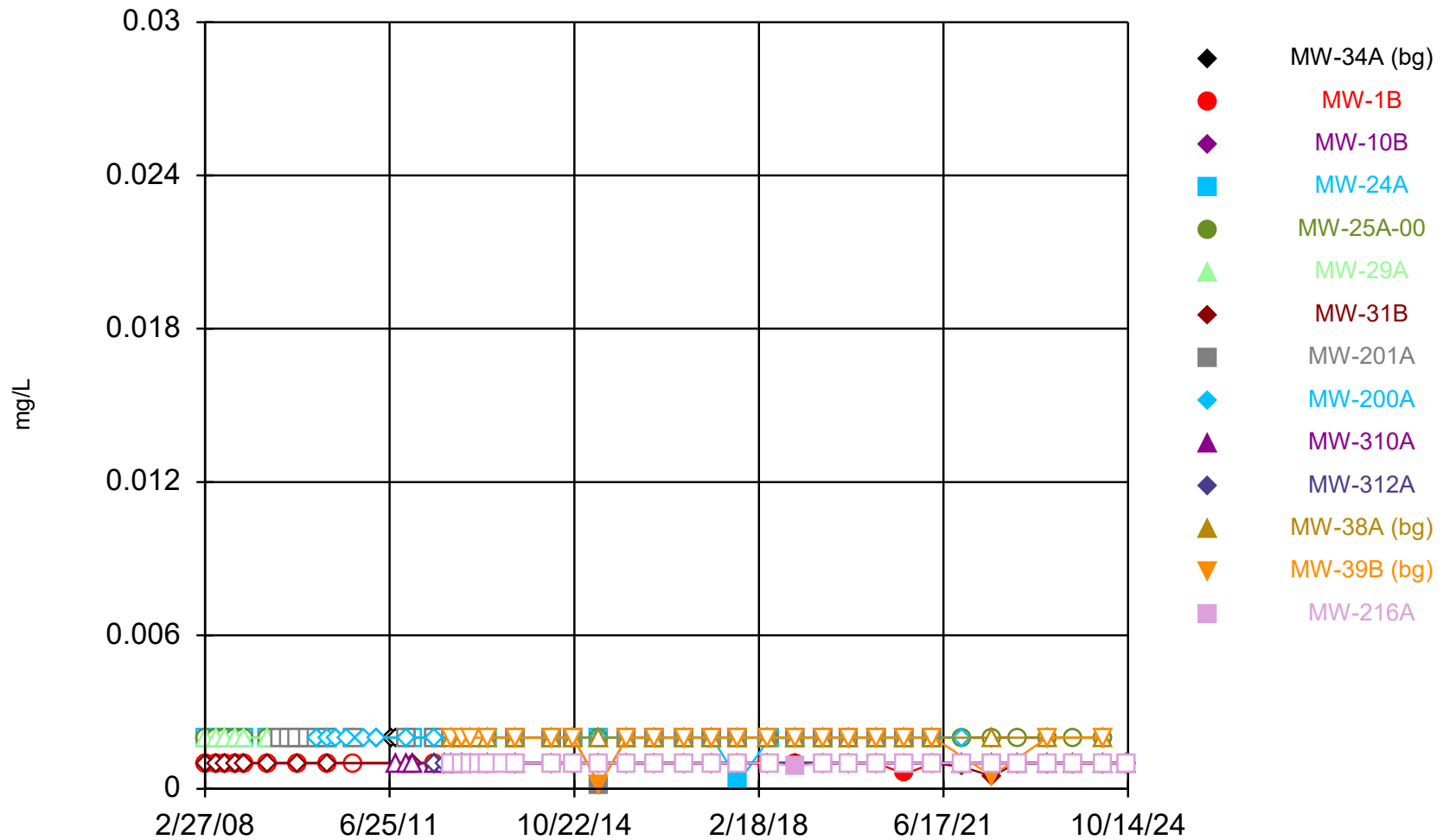
MW-23A Toluene (ug/L) MW-8B Toxaphene (ug/L) MW-18AR Trichloroethene (ug/L) MW-18AR Trichlorofluoromethane (ug/L) MW-204A Xylenes, Total (ug/L)

9/14/2008	5.07 (o)				
4/14/2009		12.3 (o)			
7/7/2009			5.98 (o)		
10/25/2009					
3/30/2013					
7/10/2013					
10/15/2014					
4/25/2018					
10/16/2018					
10/1/2019		5.08 (o)	26.7 (o)		
10/7/2020					

Groundwater Monitoring Wells –
Time Series

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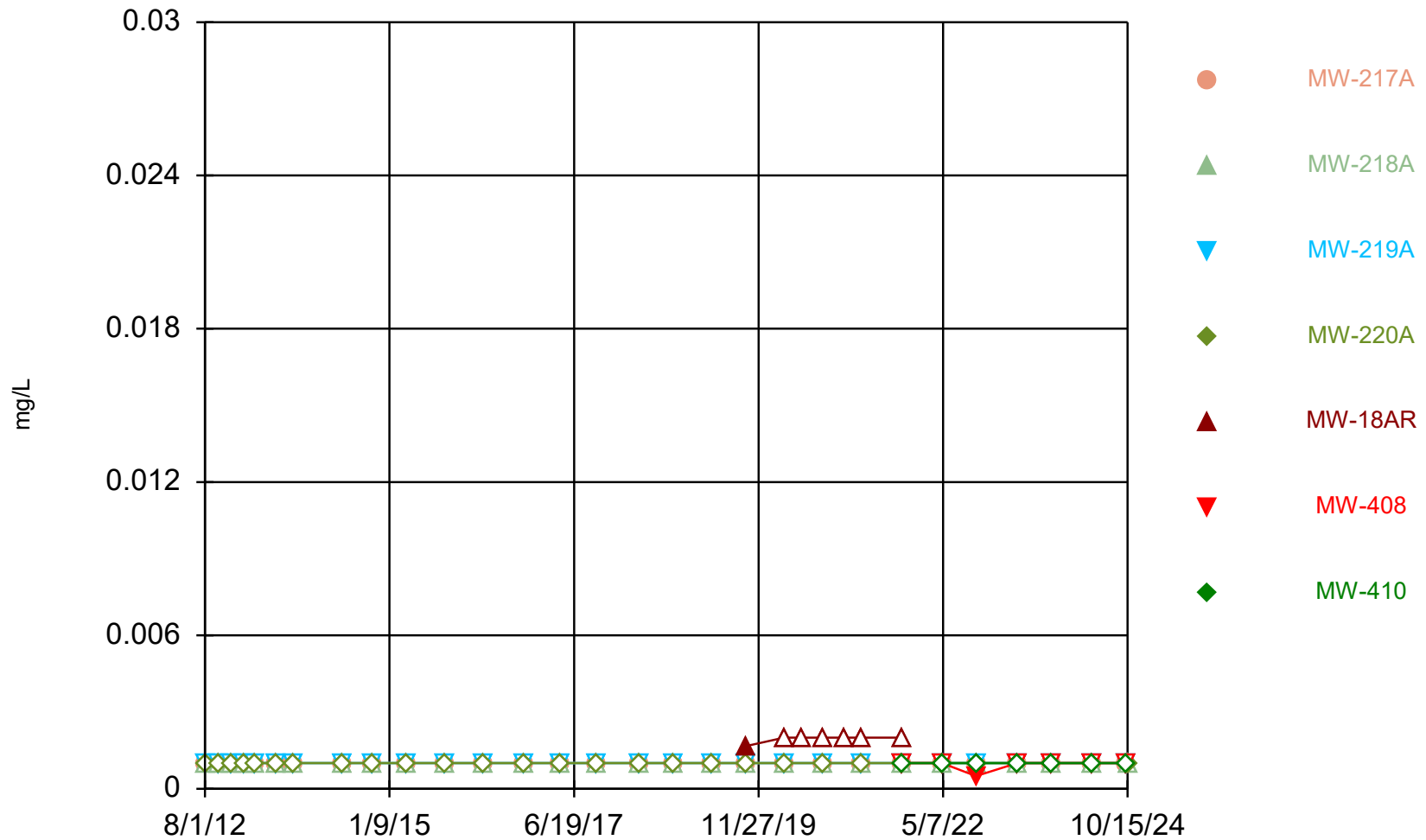
Time Series



Constituent: Antimony Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall

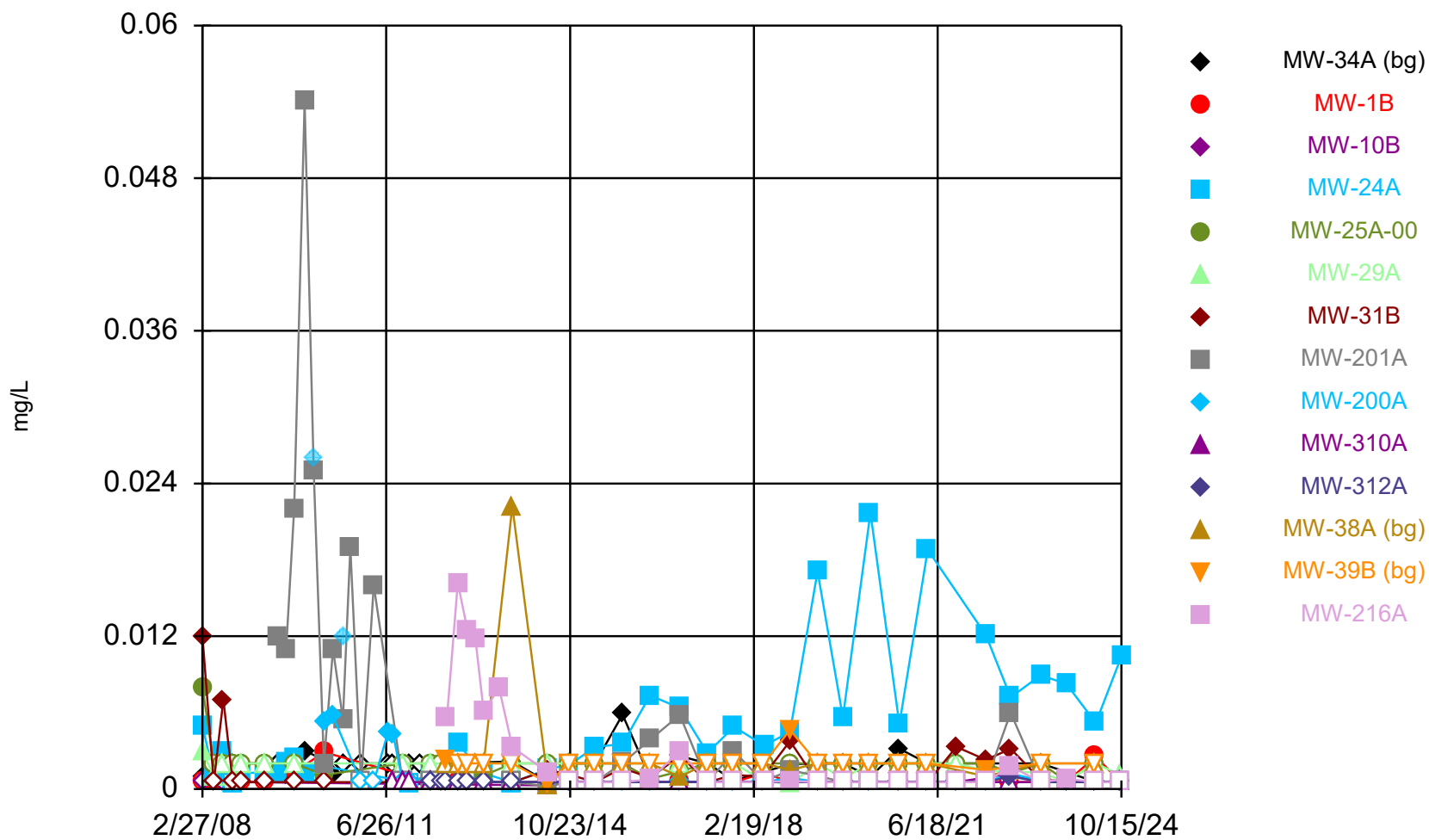
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



Constituent: Antimony Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

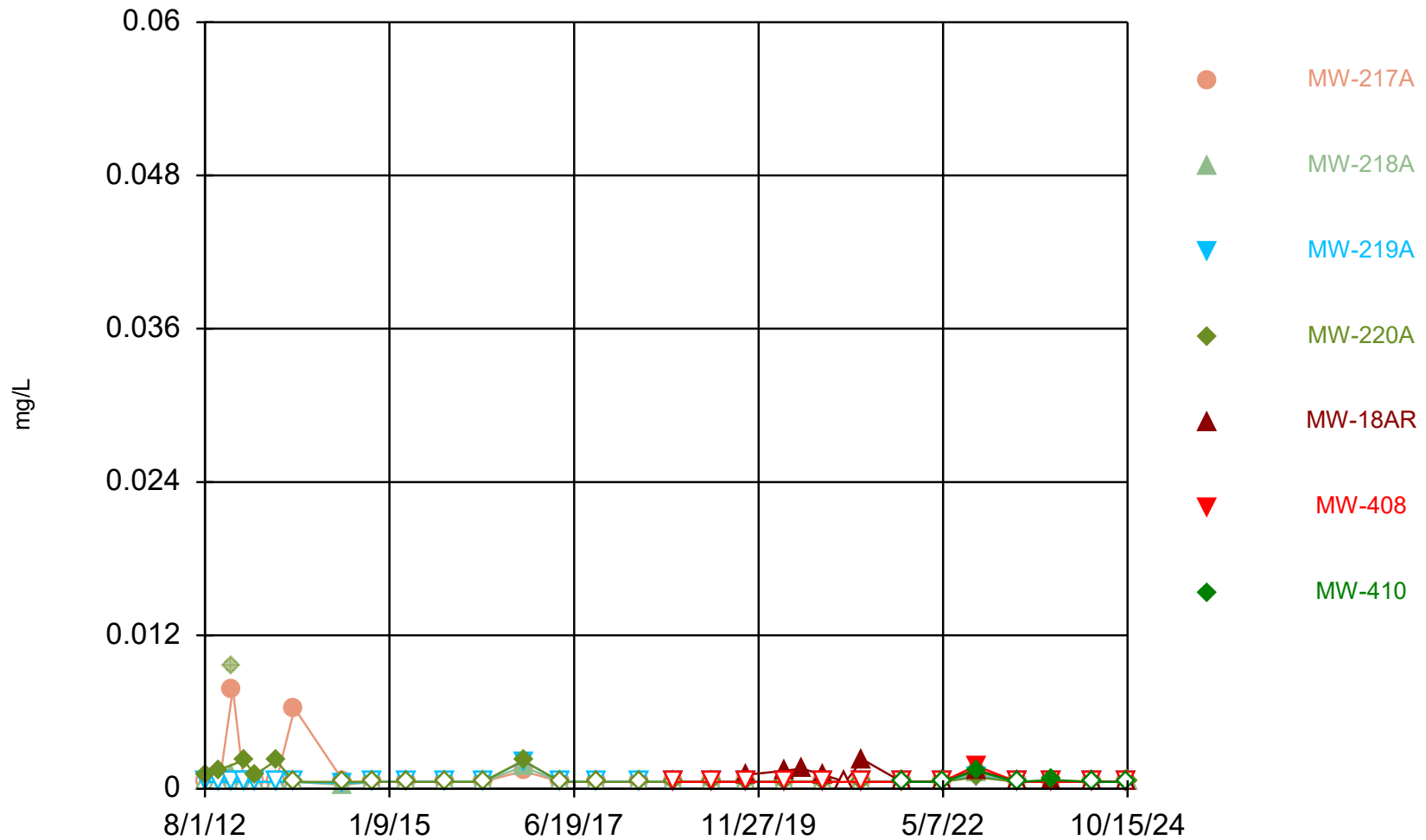
Time Series



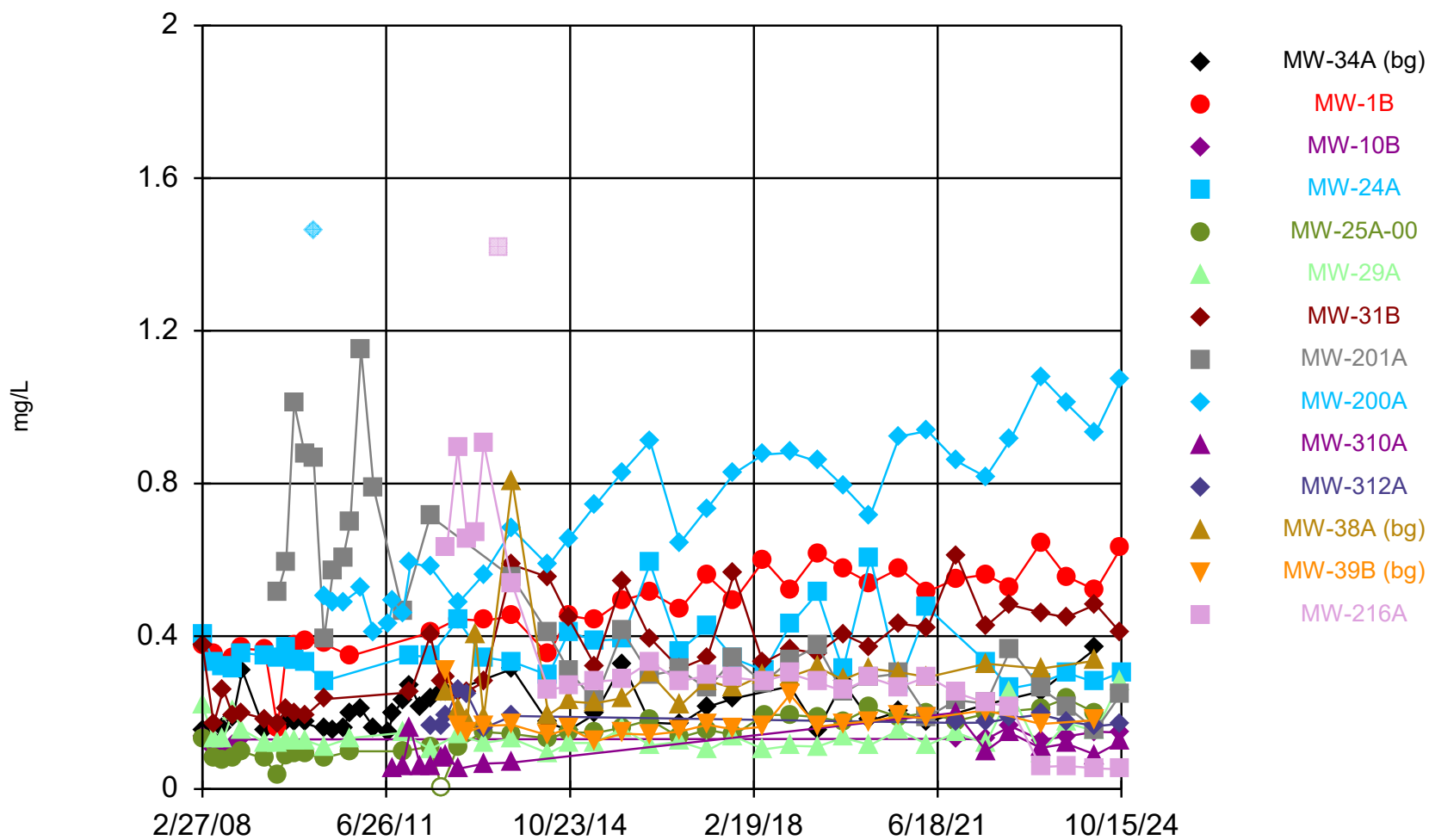
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



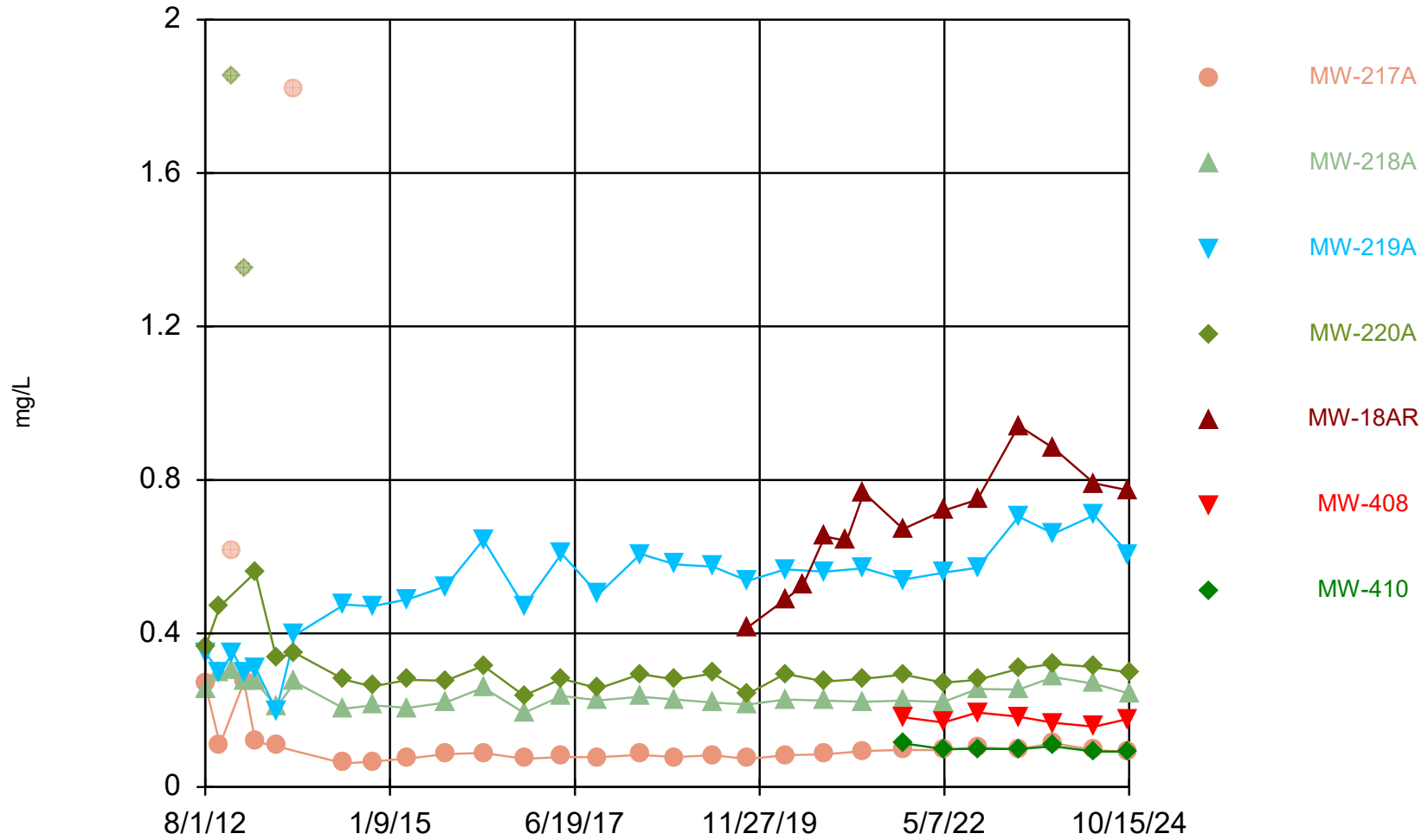
Time Series



Constituent: Barium Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

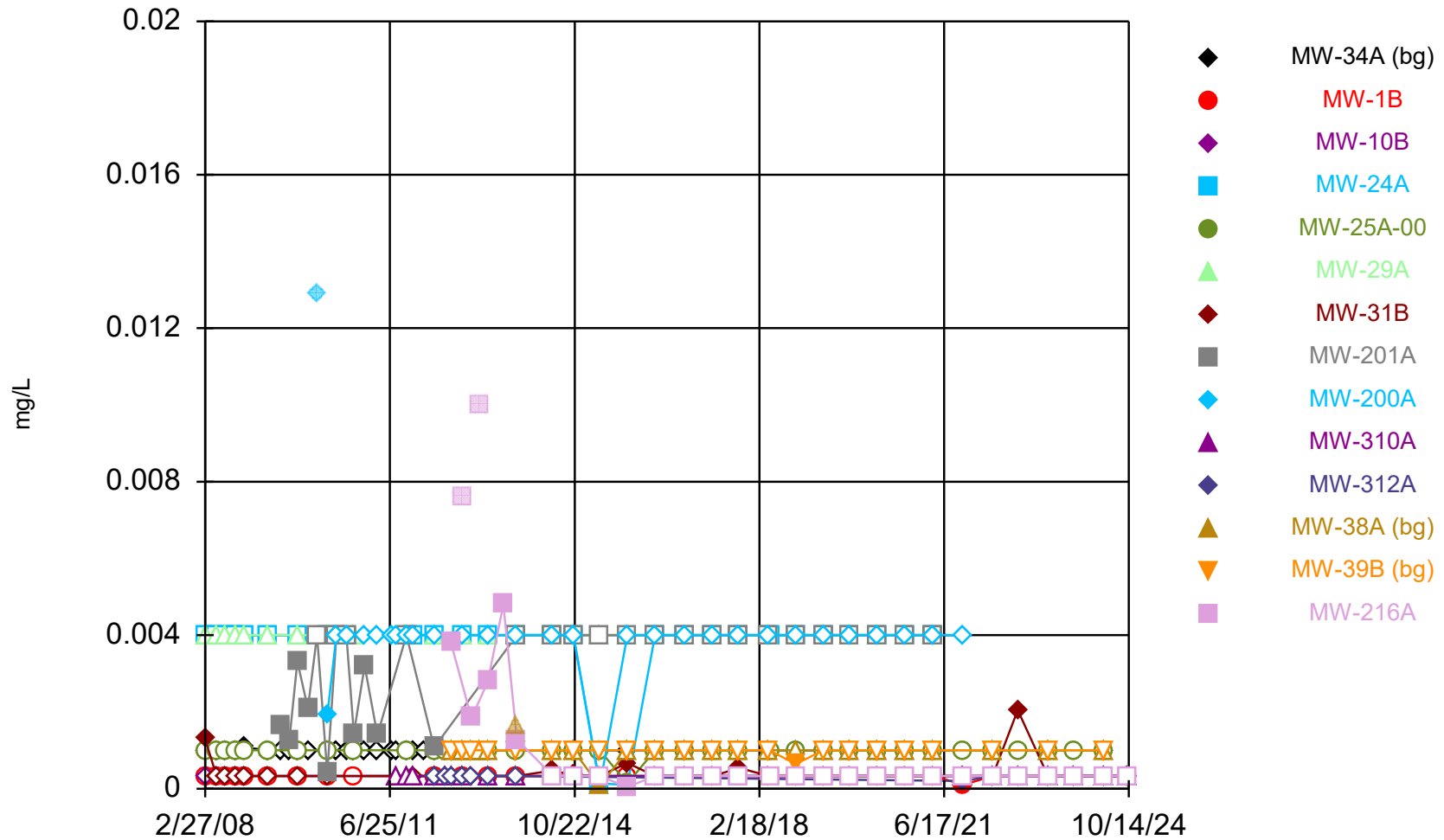
Time Series



Constituent: Barium Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

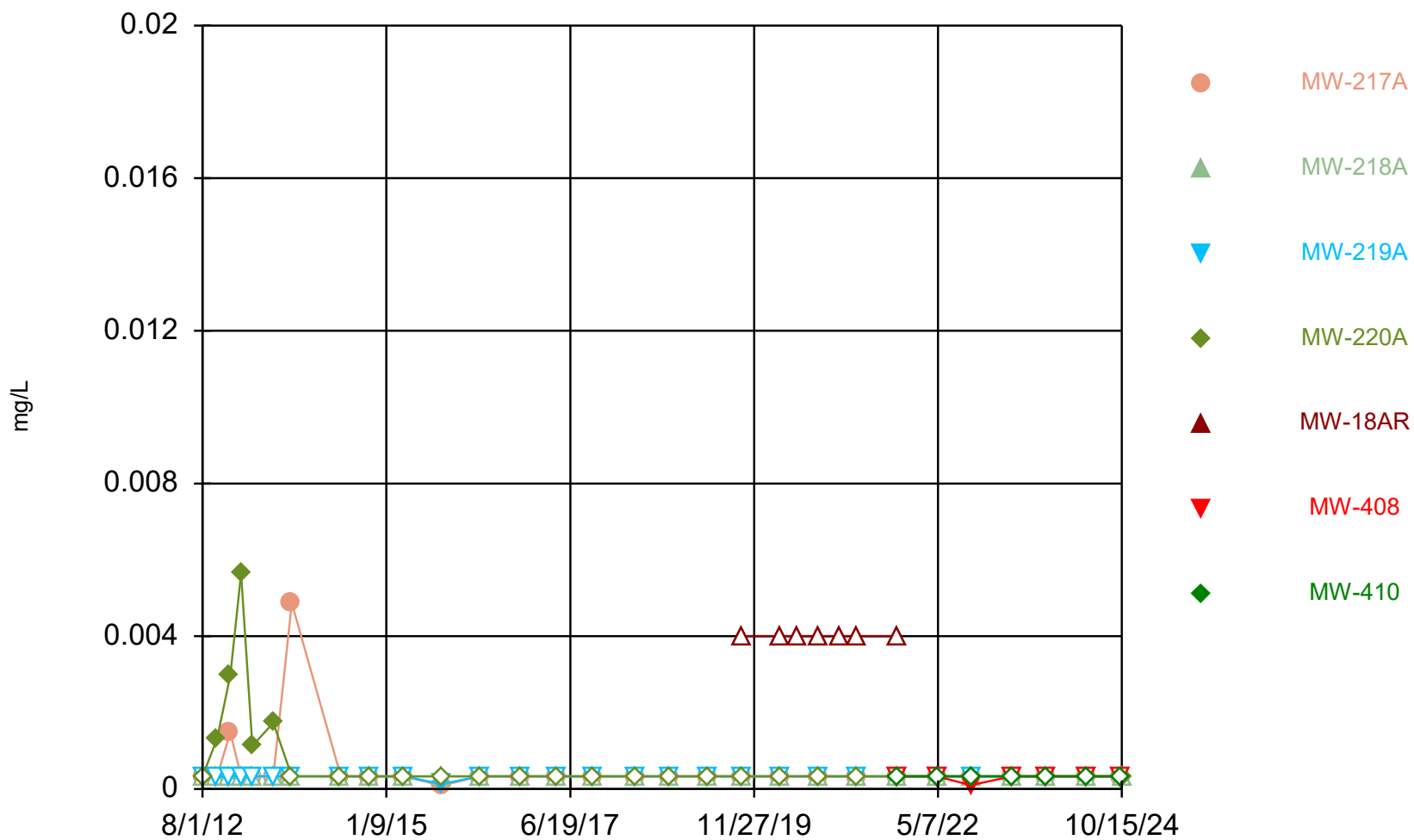
Time Series



Constituent: Beryllium Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall

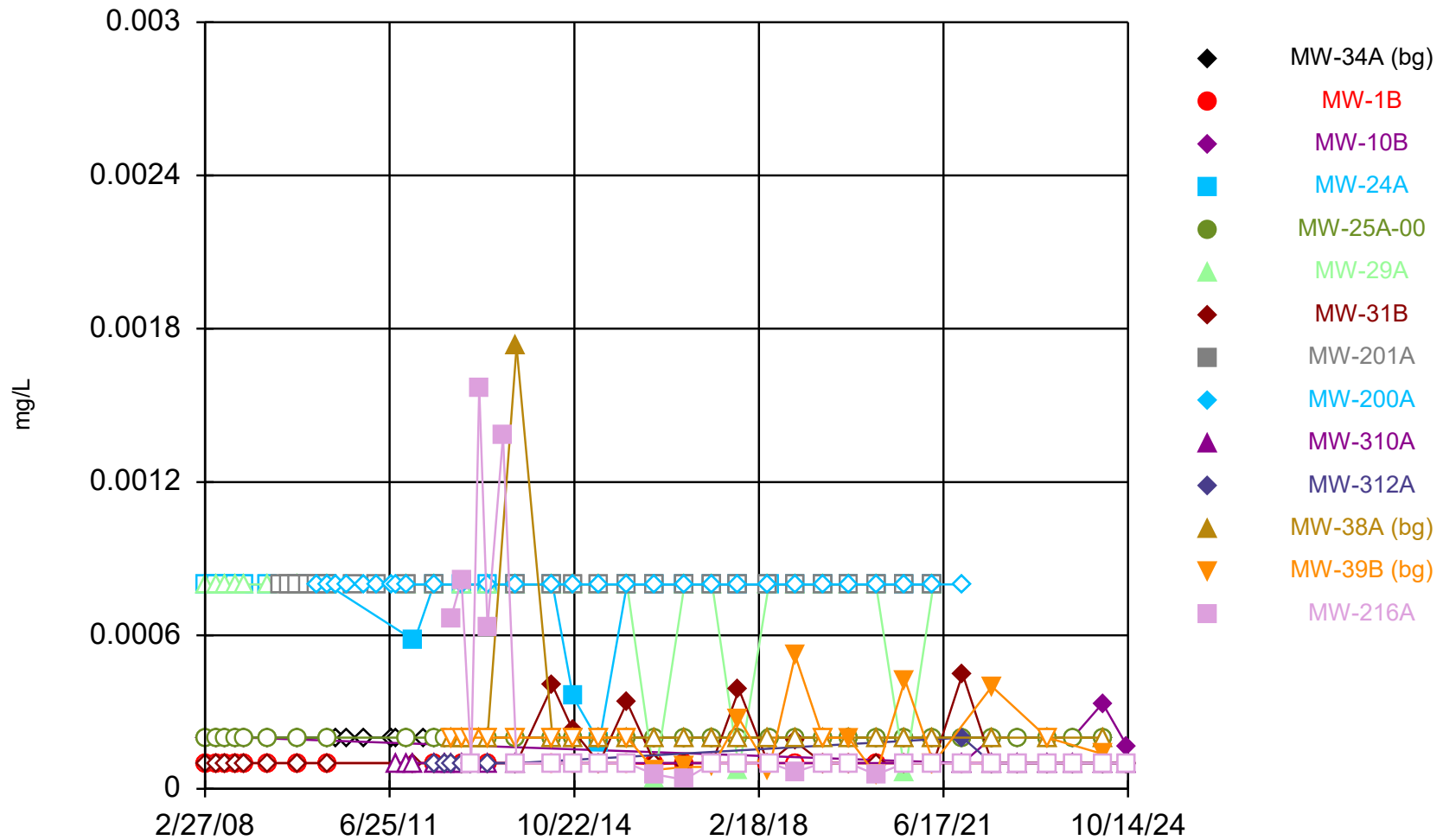
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



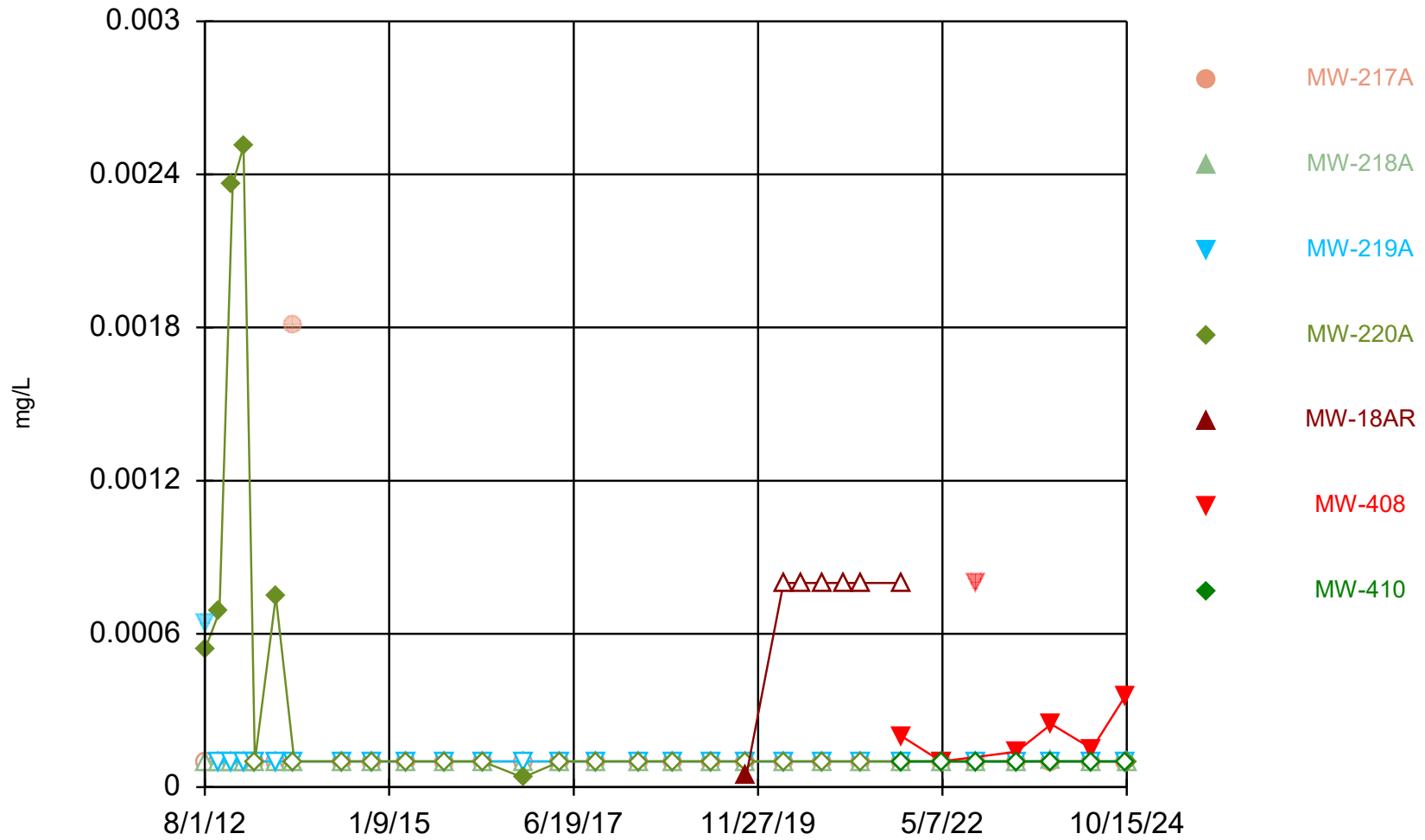
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series

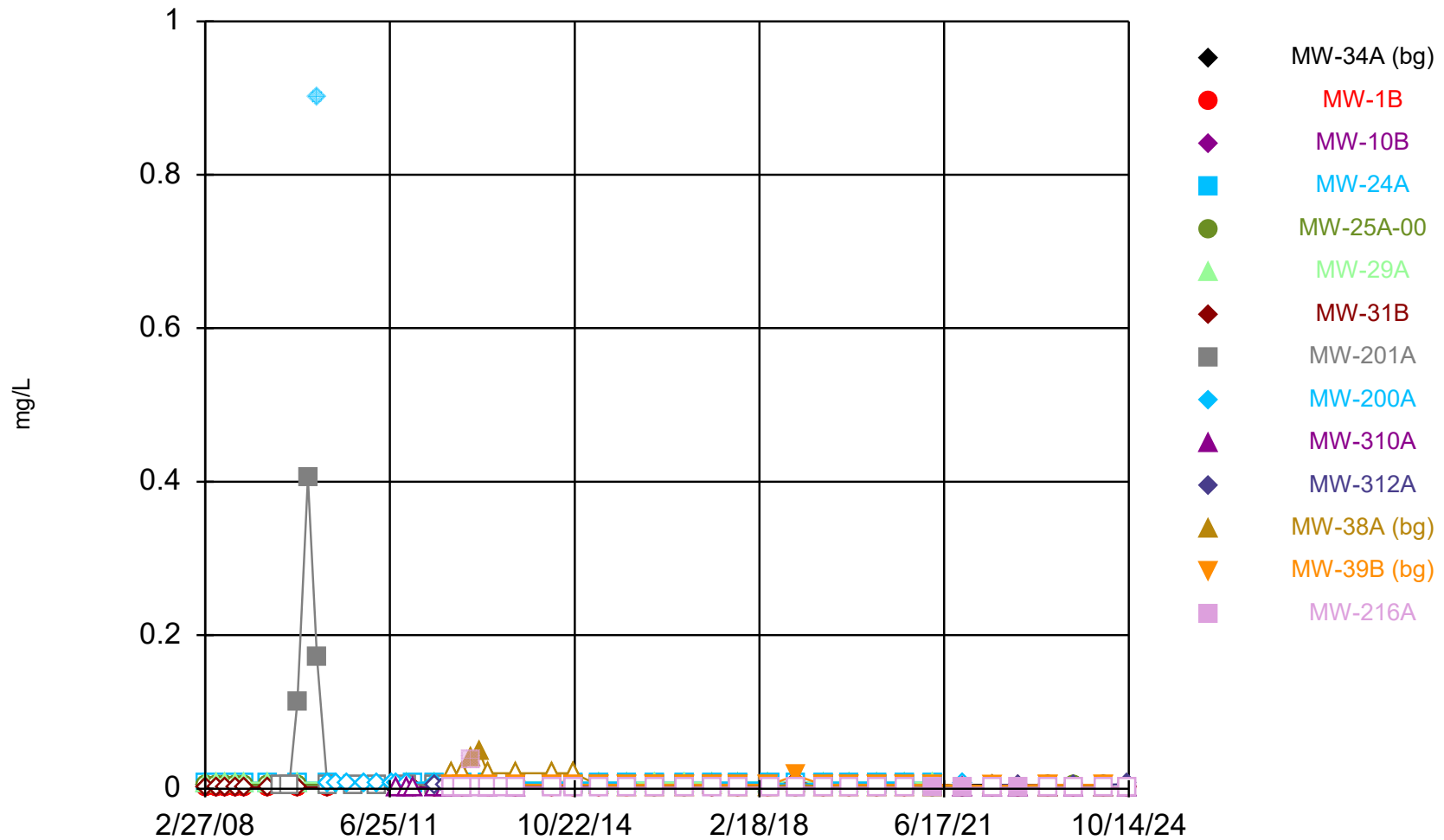


Constituent: Cadmium Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



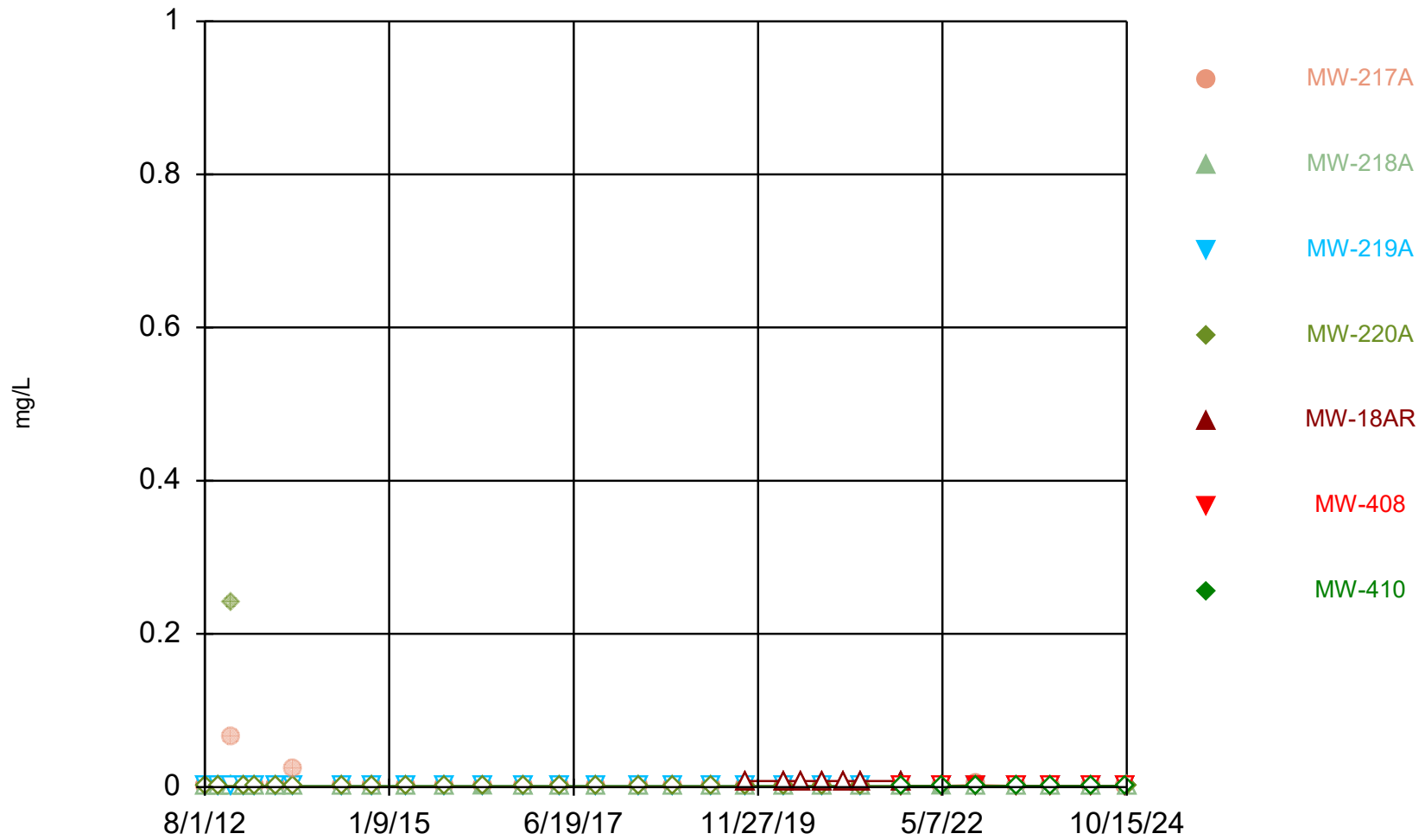
Time Series



Constituent: Chromium Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall

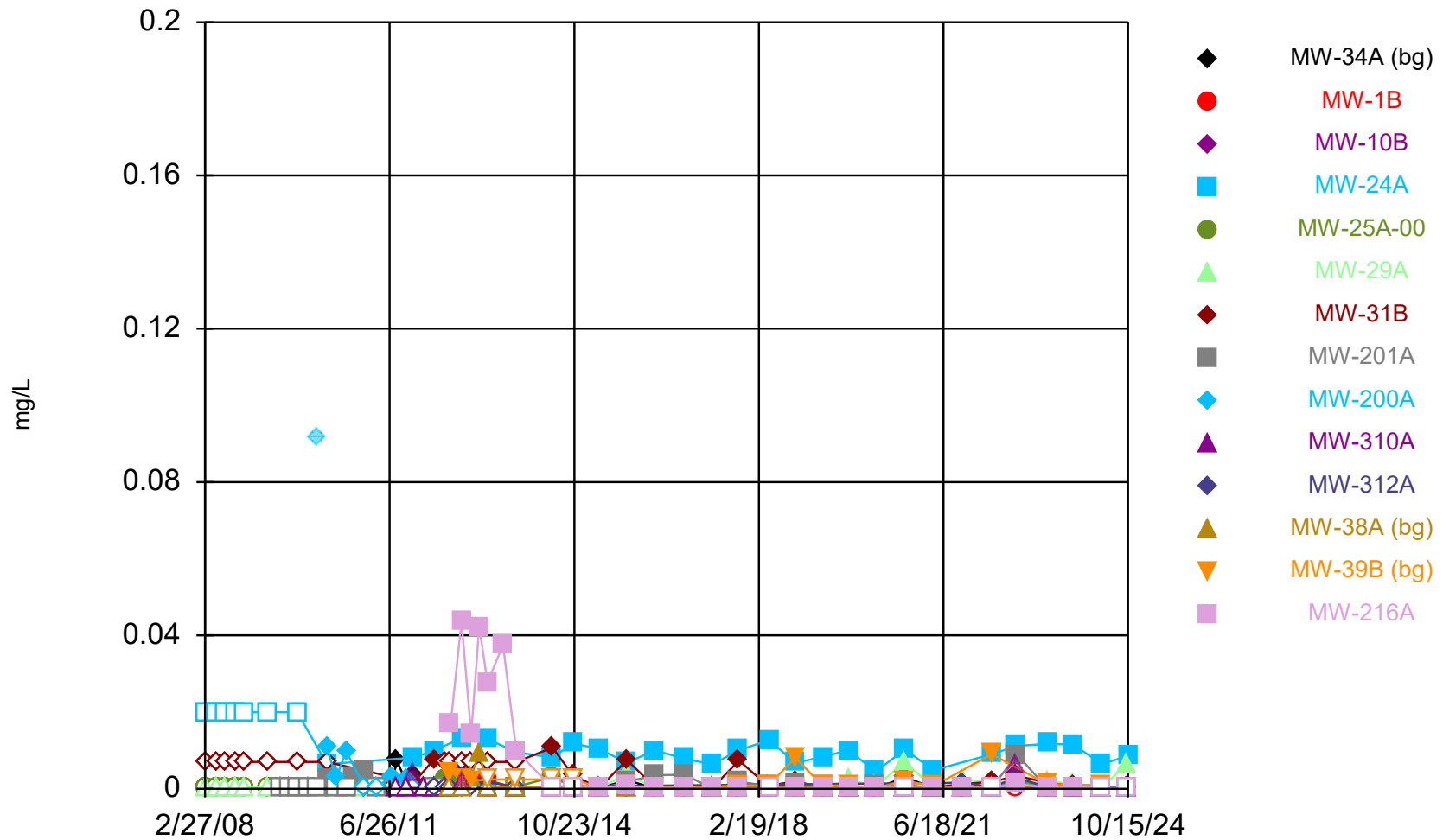
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



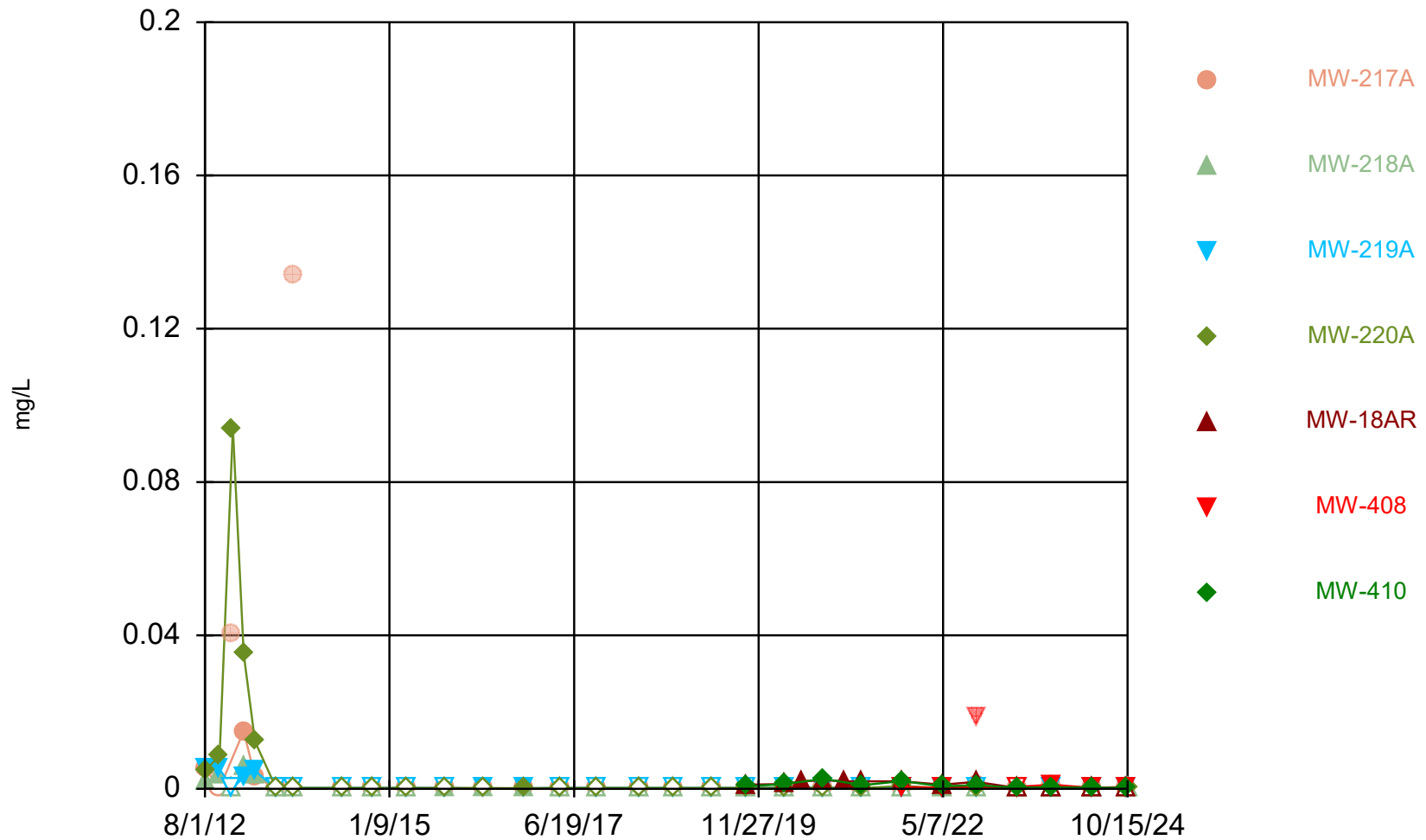
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



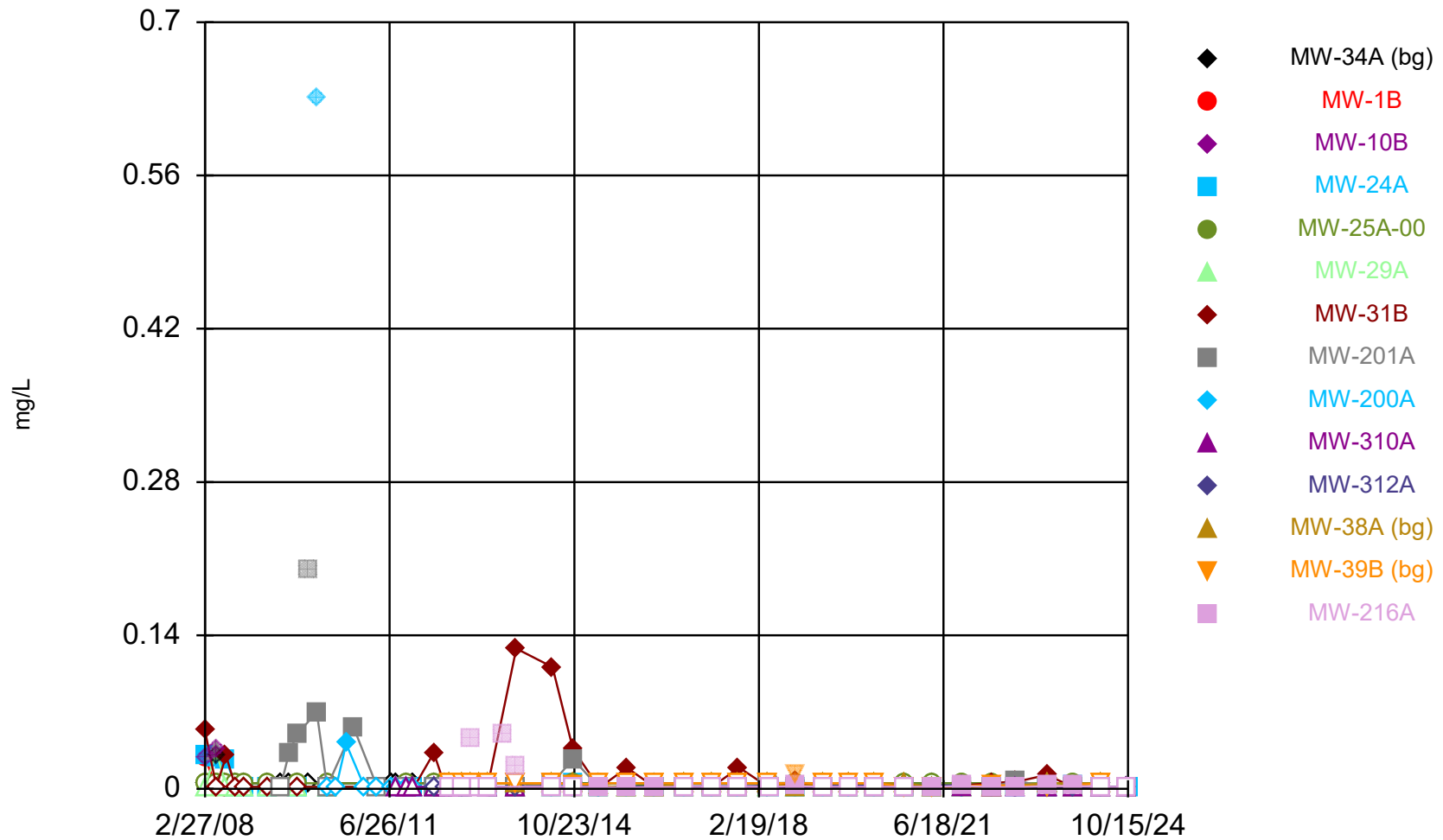
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



Constituent: Cobalt Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

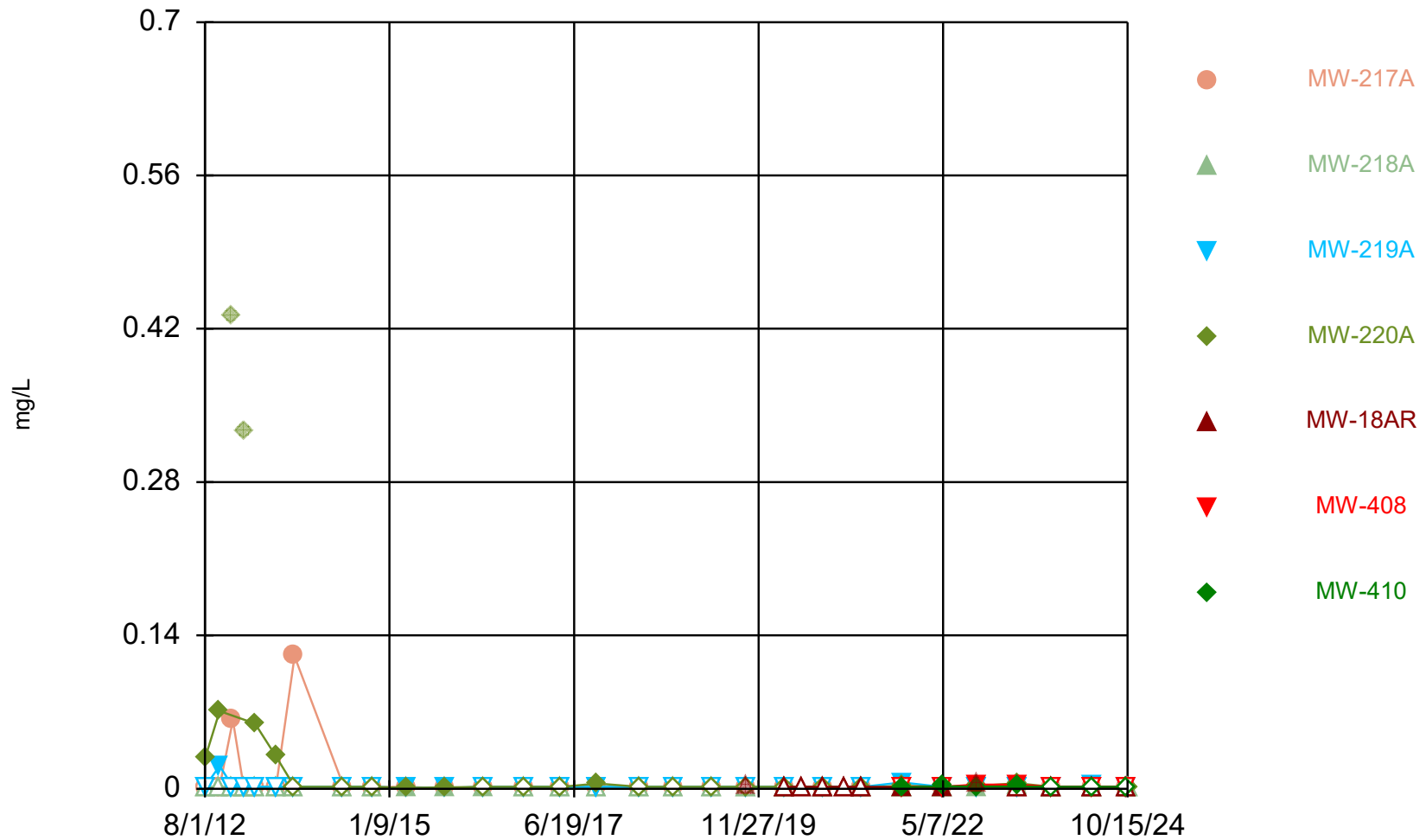
Time Series



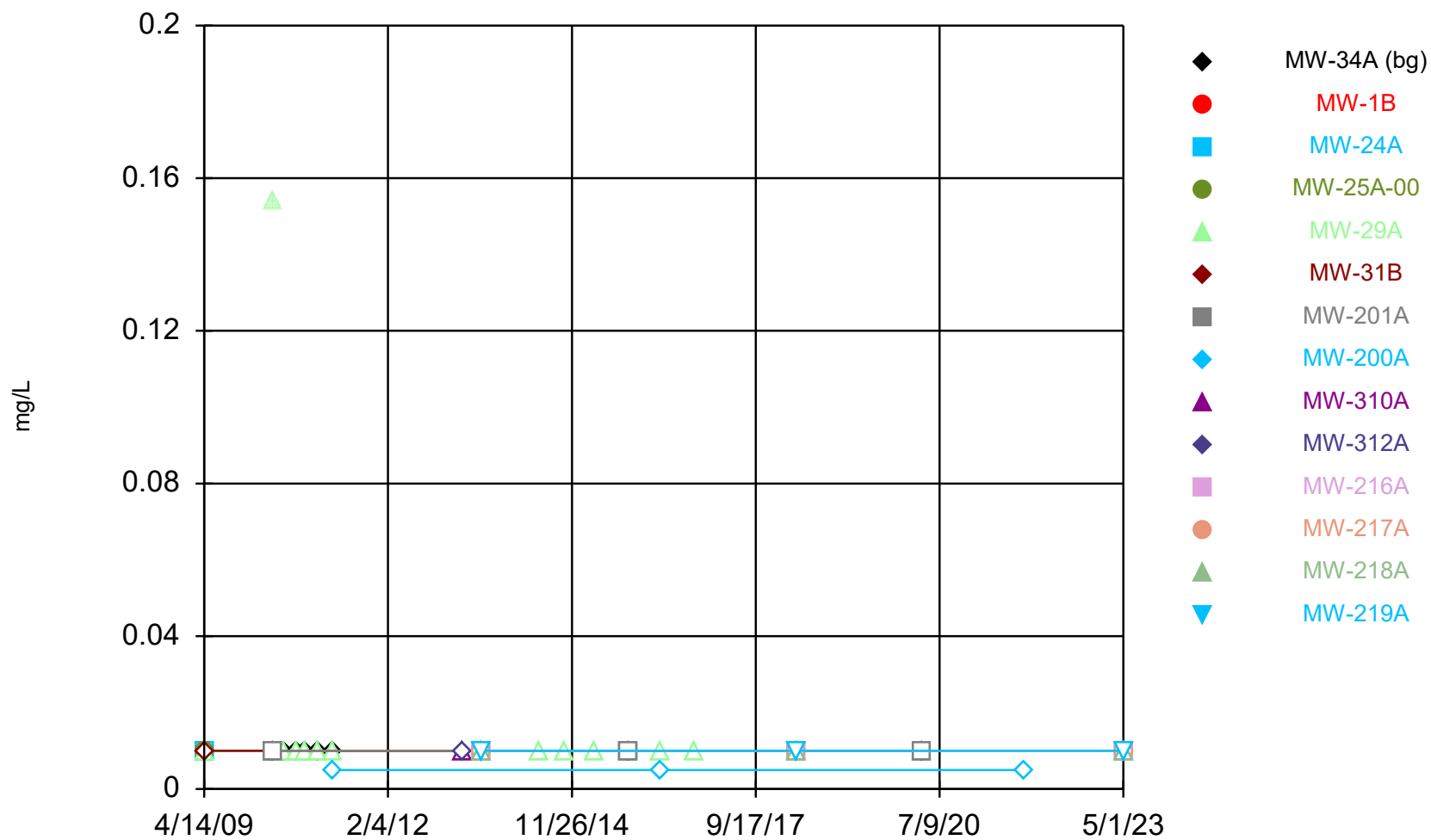
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



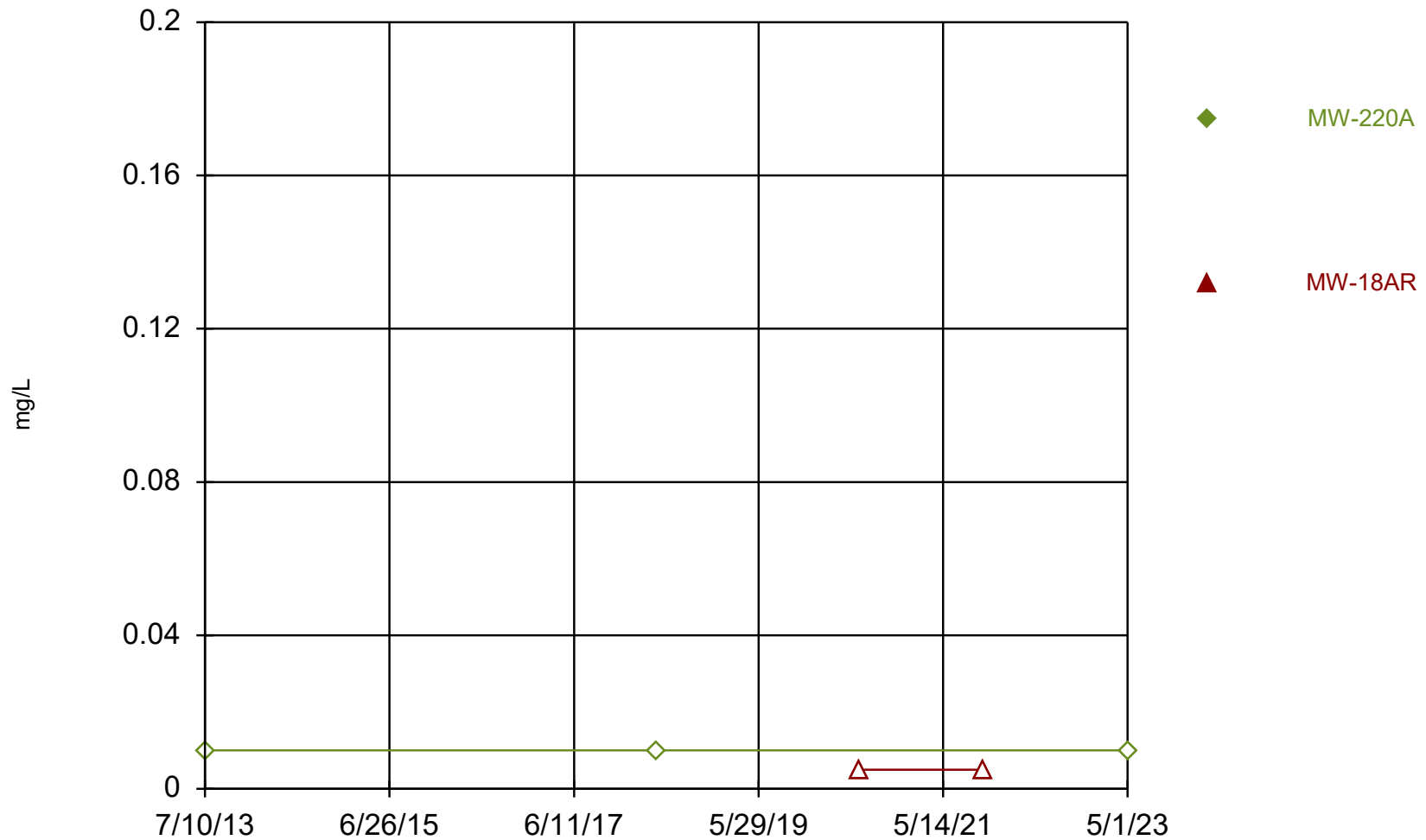
Time Series



Constituent: Cyanide Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall

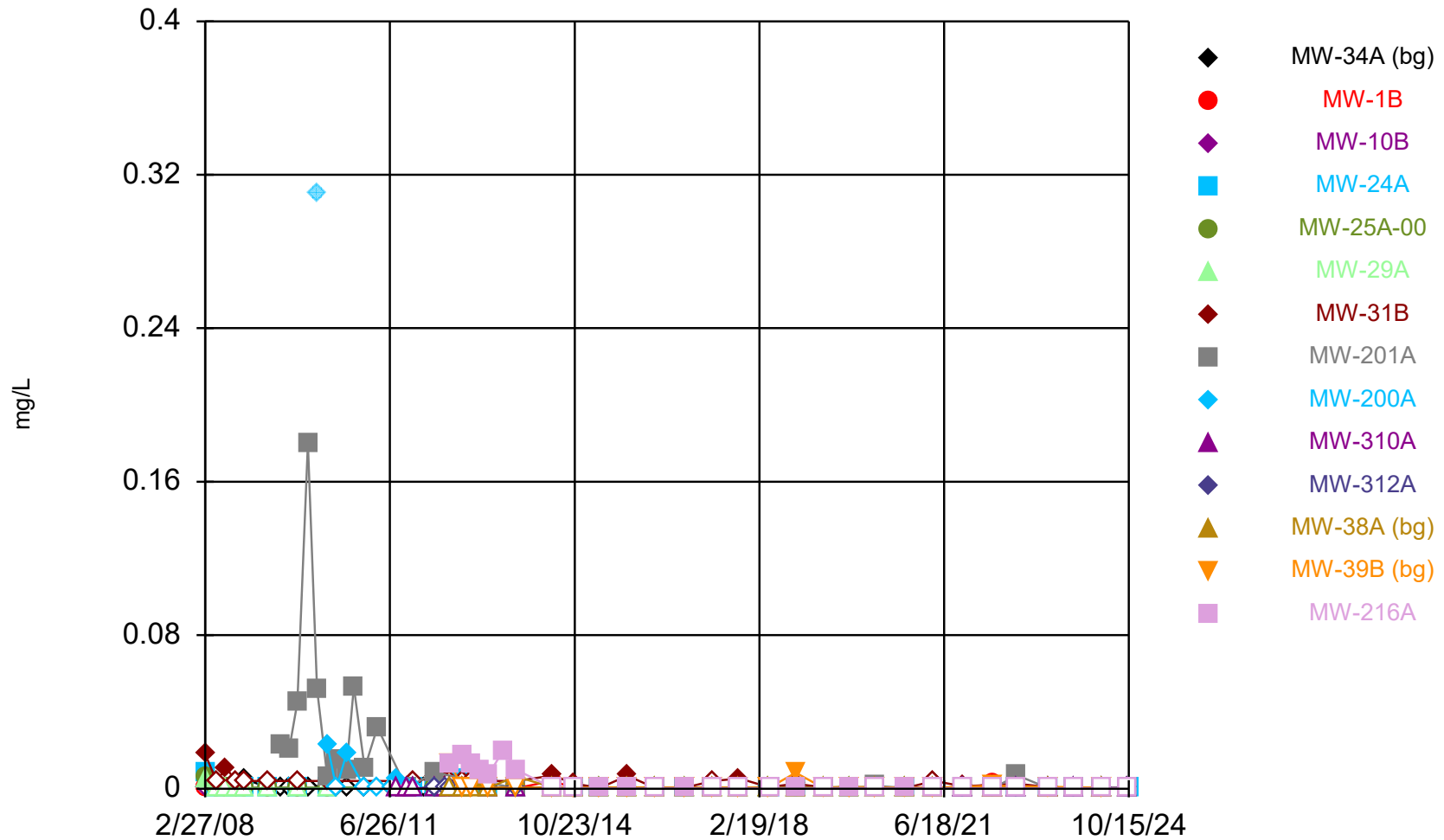
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



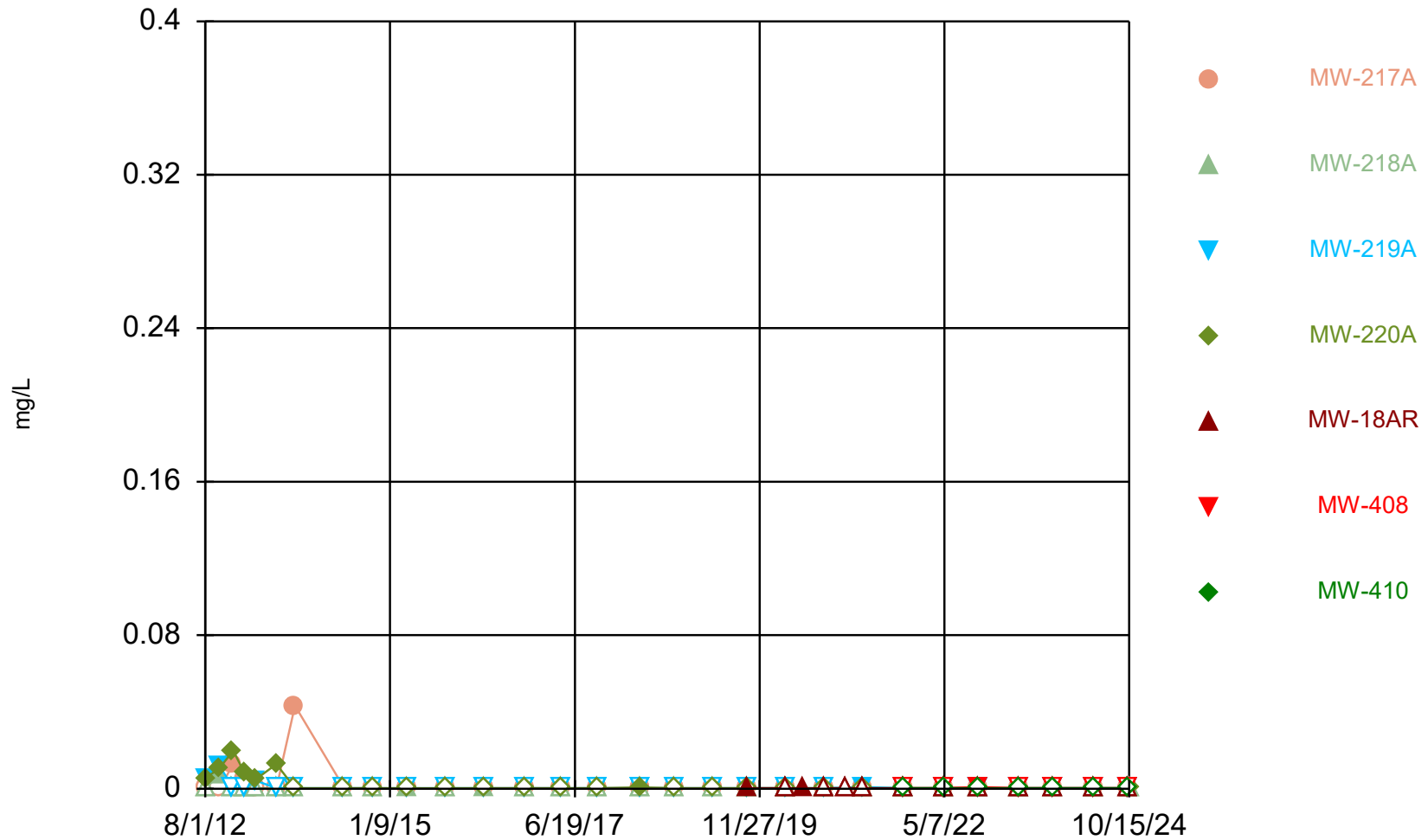
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



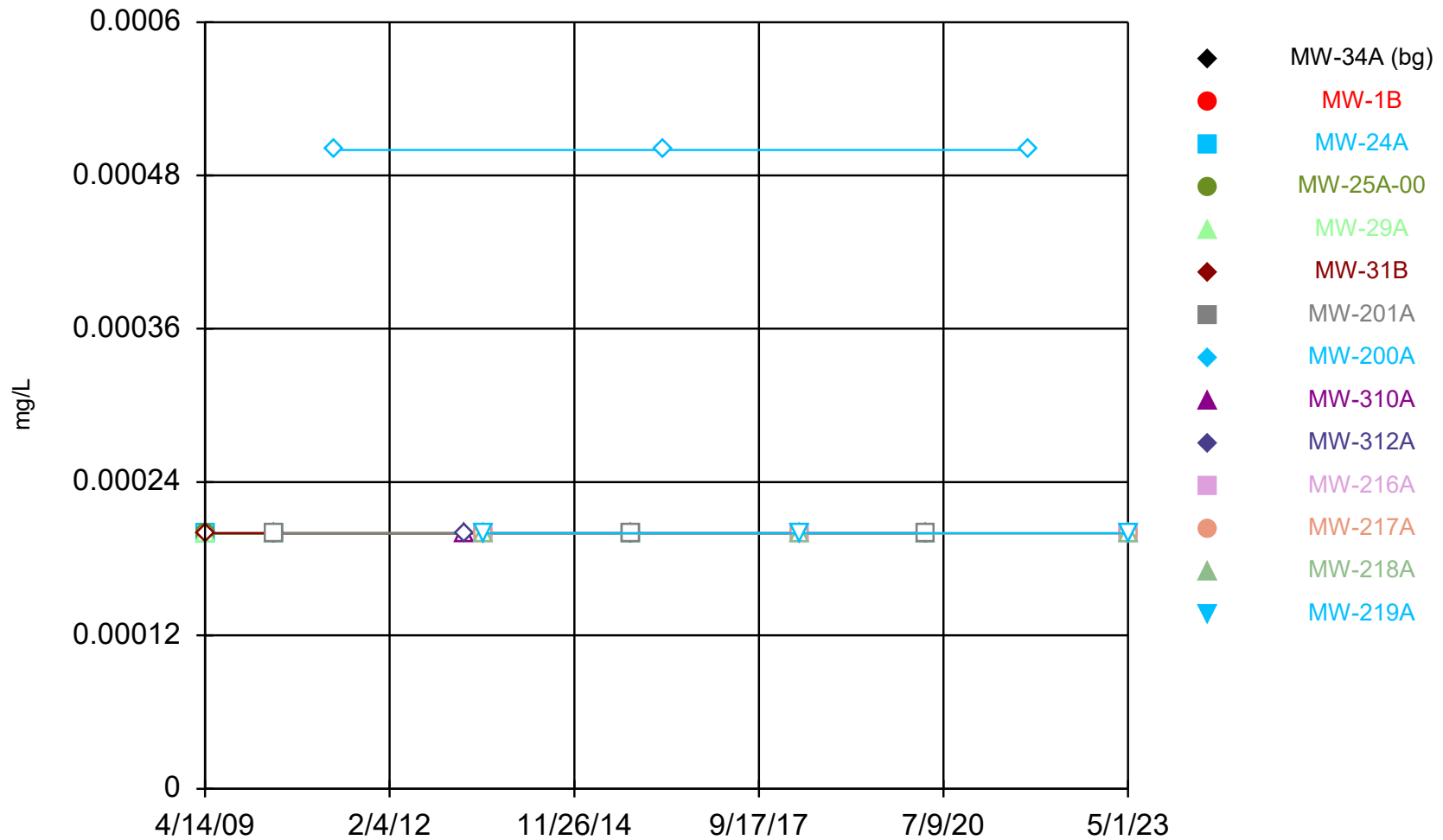
Constituent: Lead Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



Con

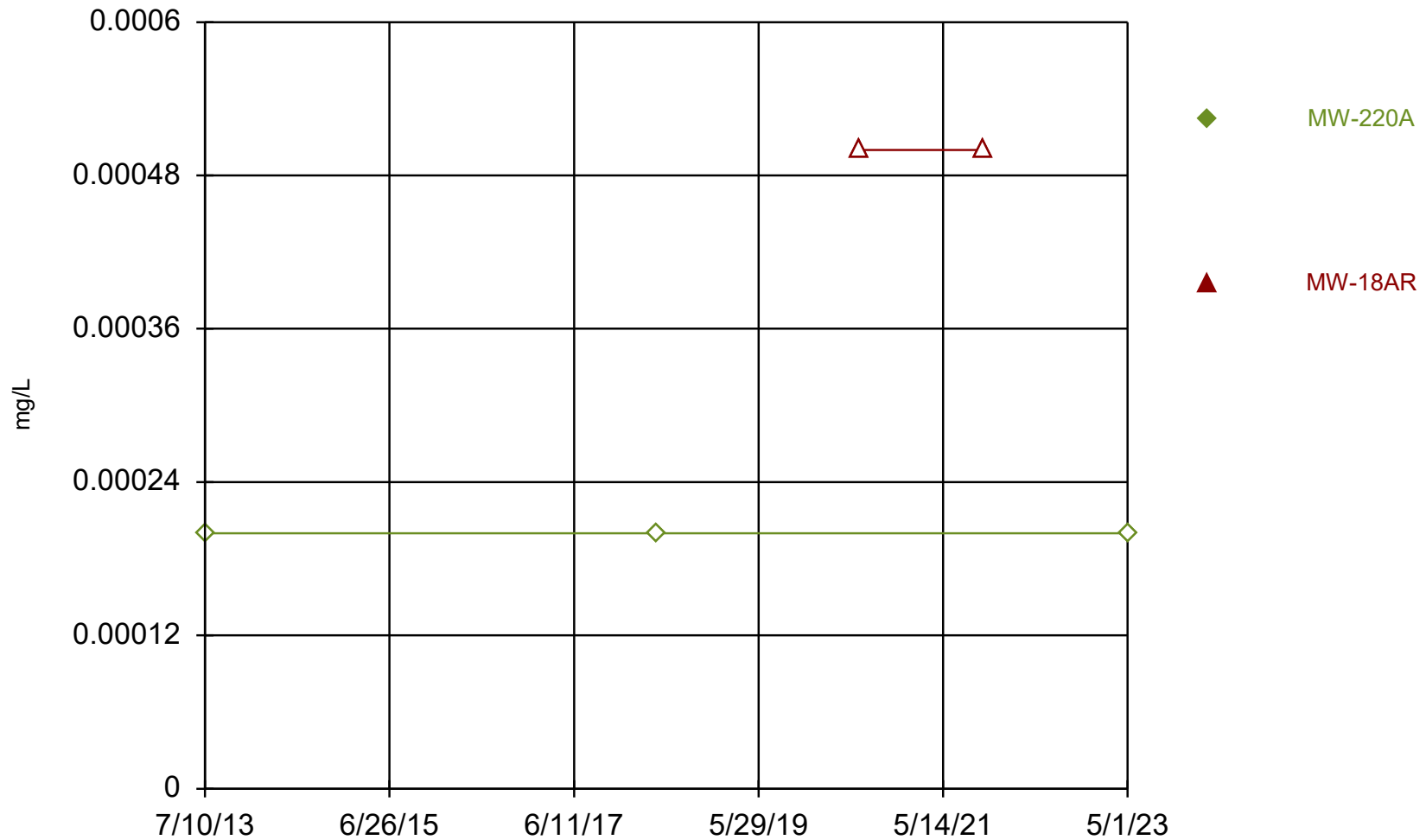
Time Series



Constituent: Mercury Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall

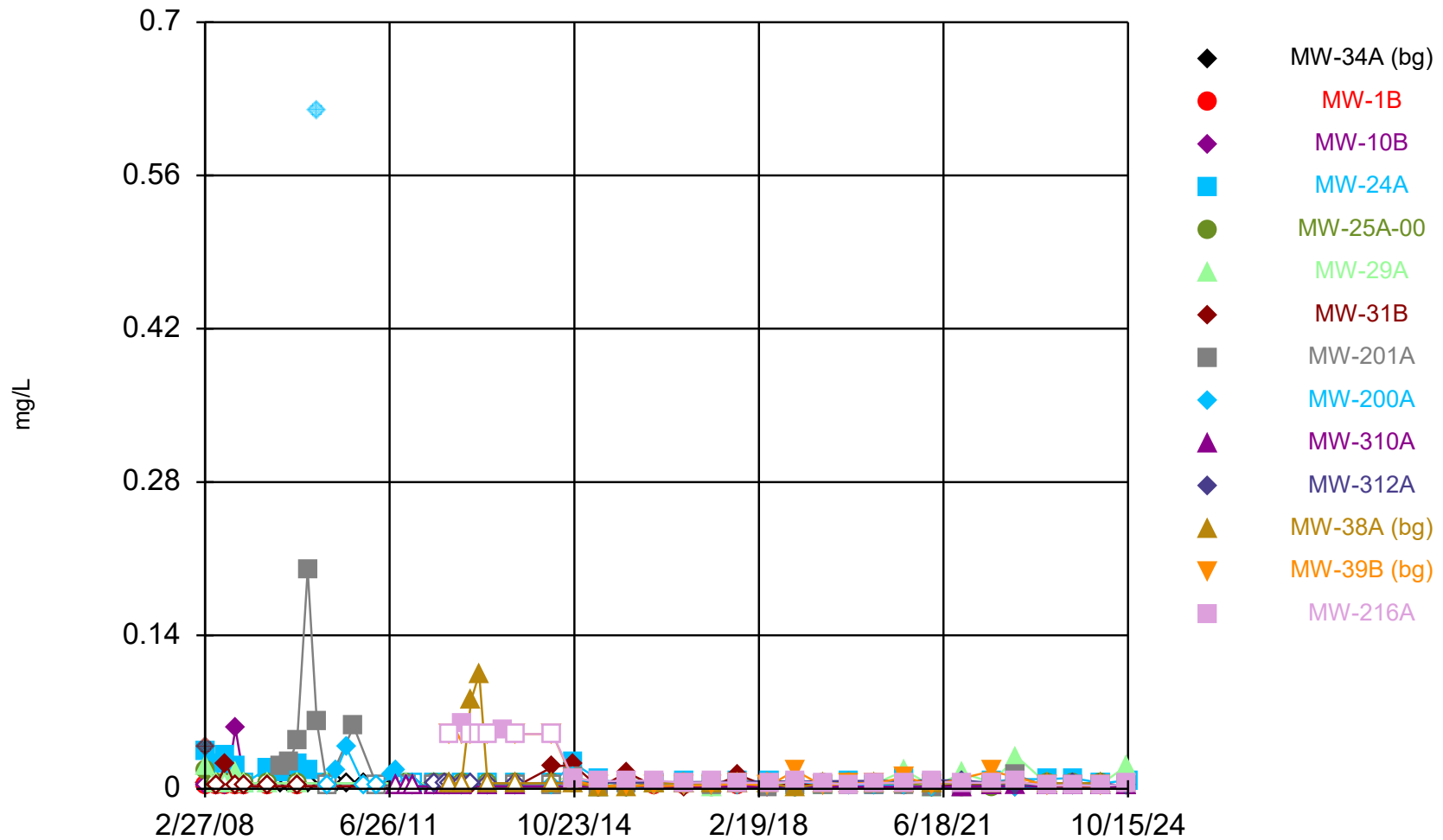
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



Constituent: Mercury Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

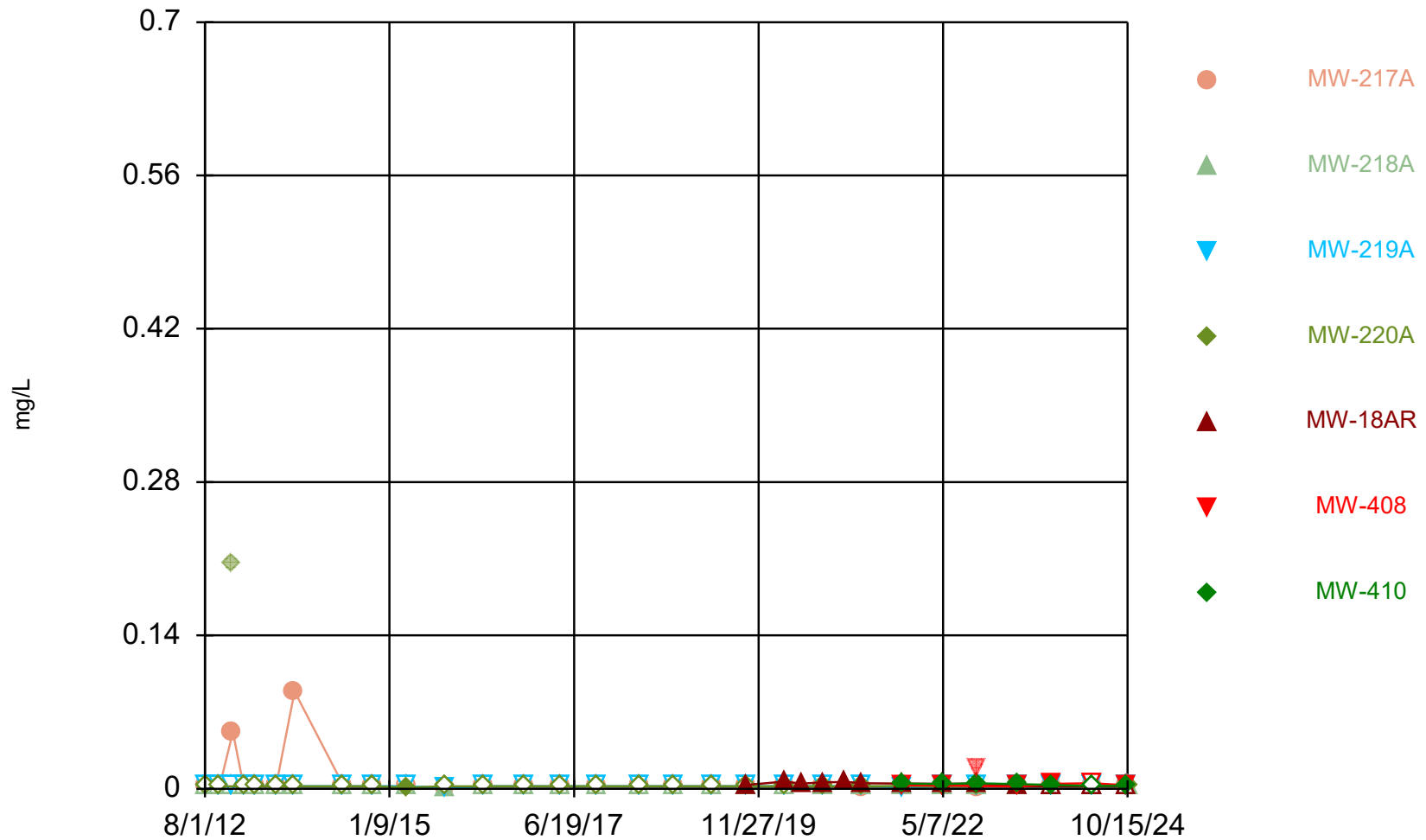
Time Series



Constituent: Nickel Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall

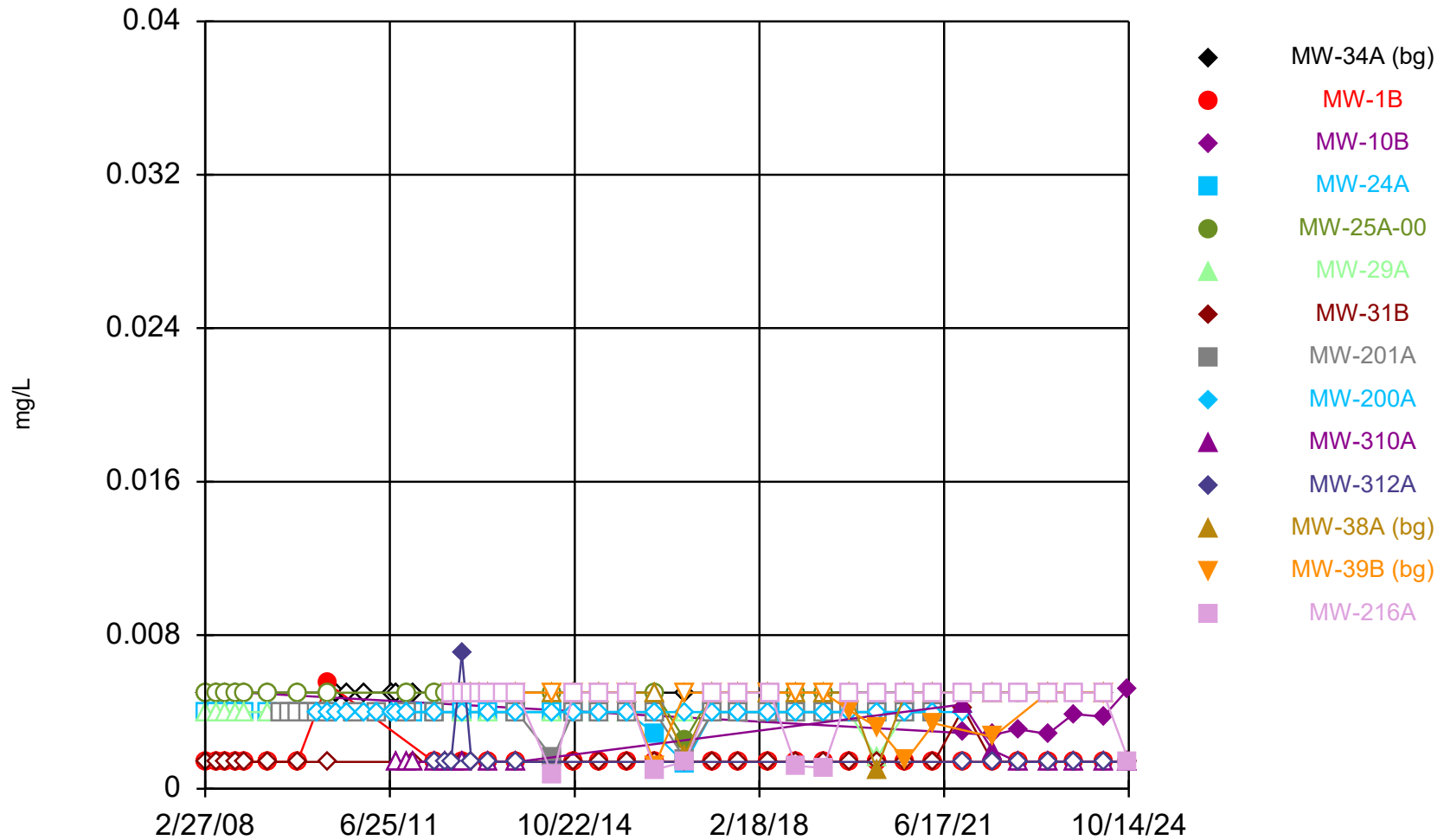
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



Constituent: Nickel Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

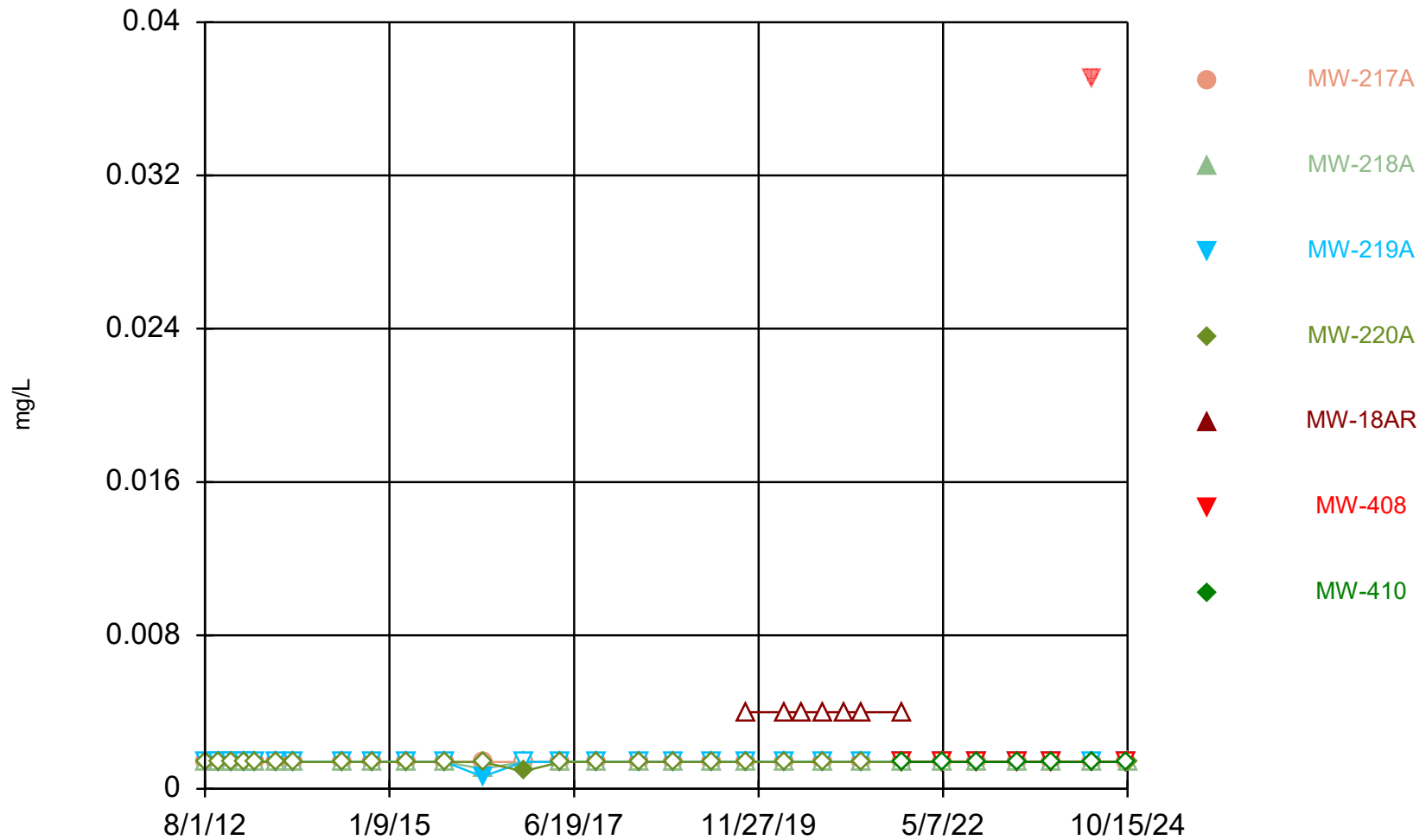
Time Series



Constituent: Selenium Analysis Run 1/23/2025 4:48 PM View: 05B_MW_Inorganics_PL_Fall

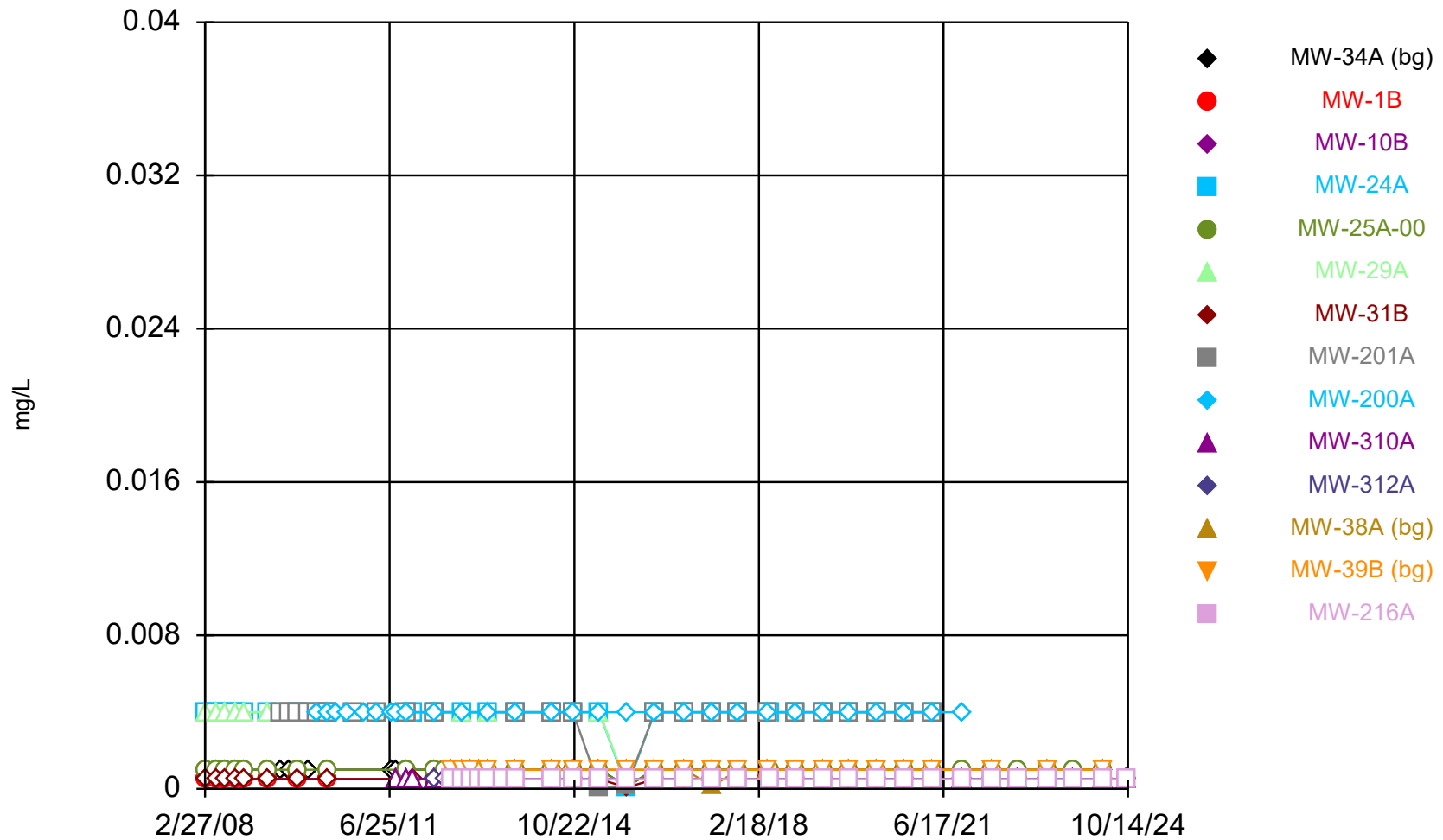
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



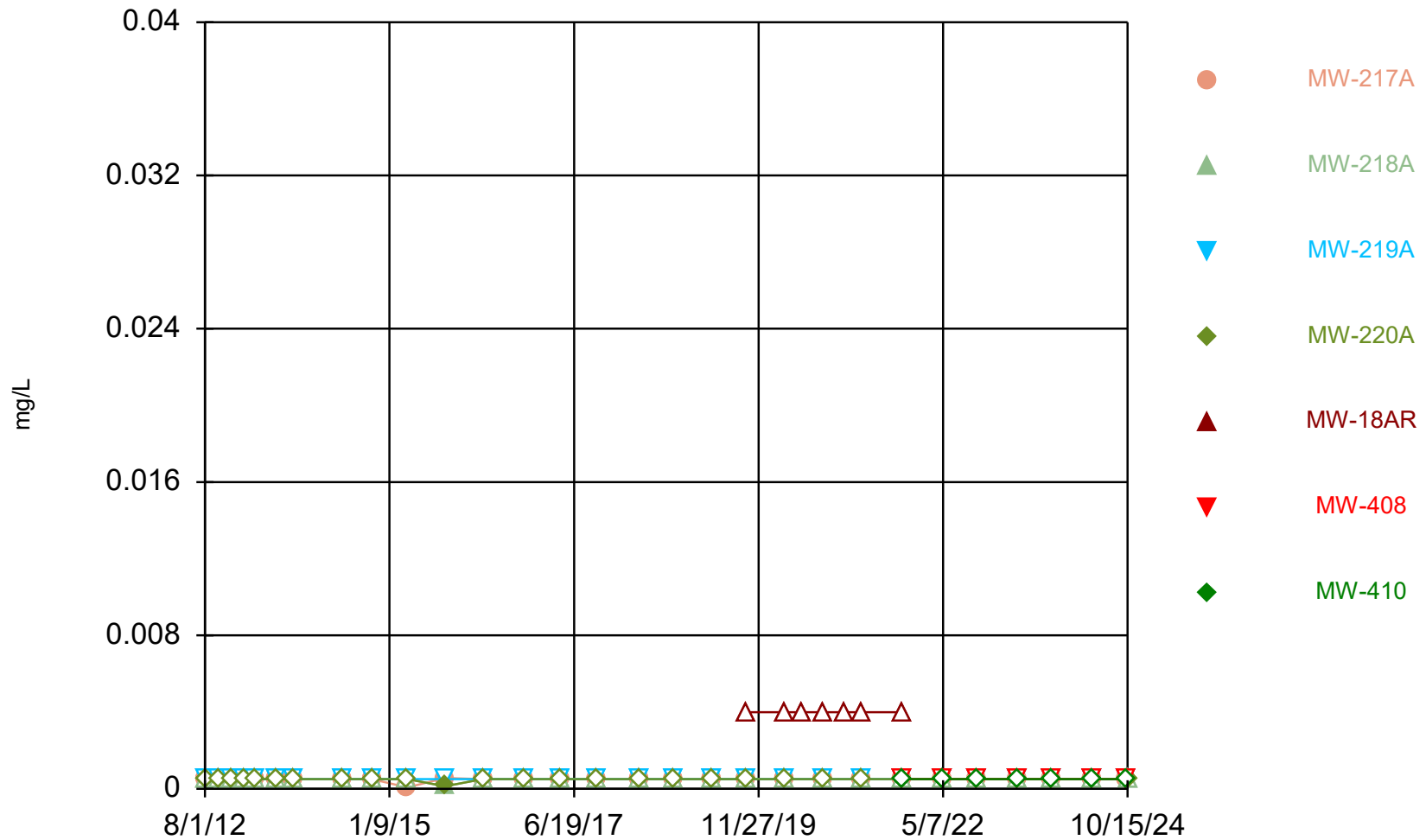
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



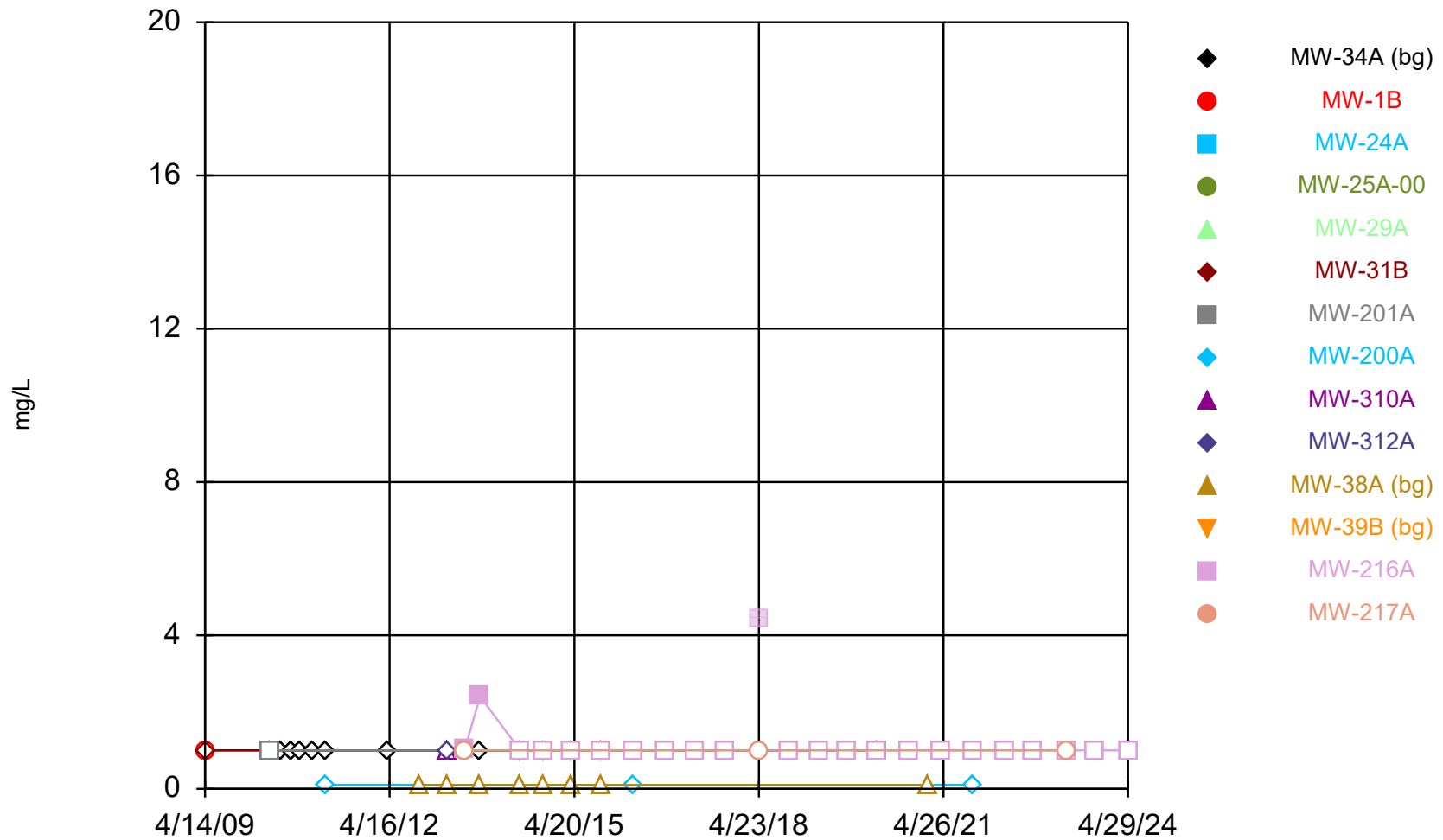
Constituent: Silver Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



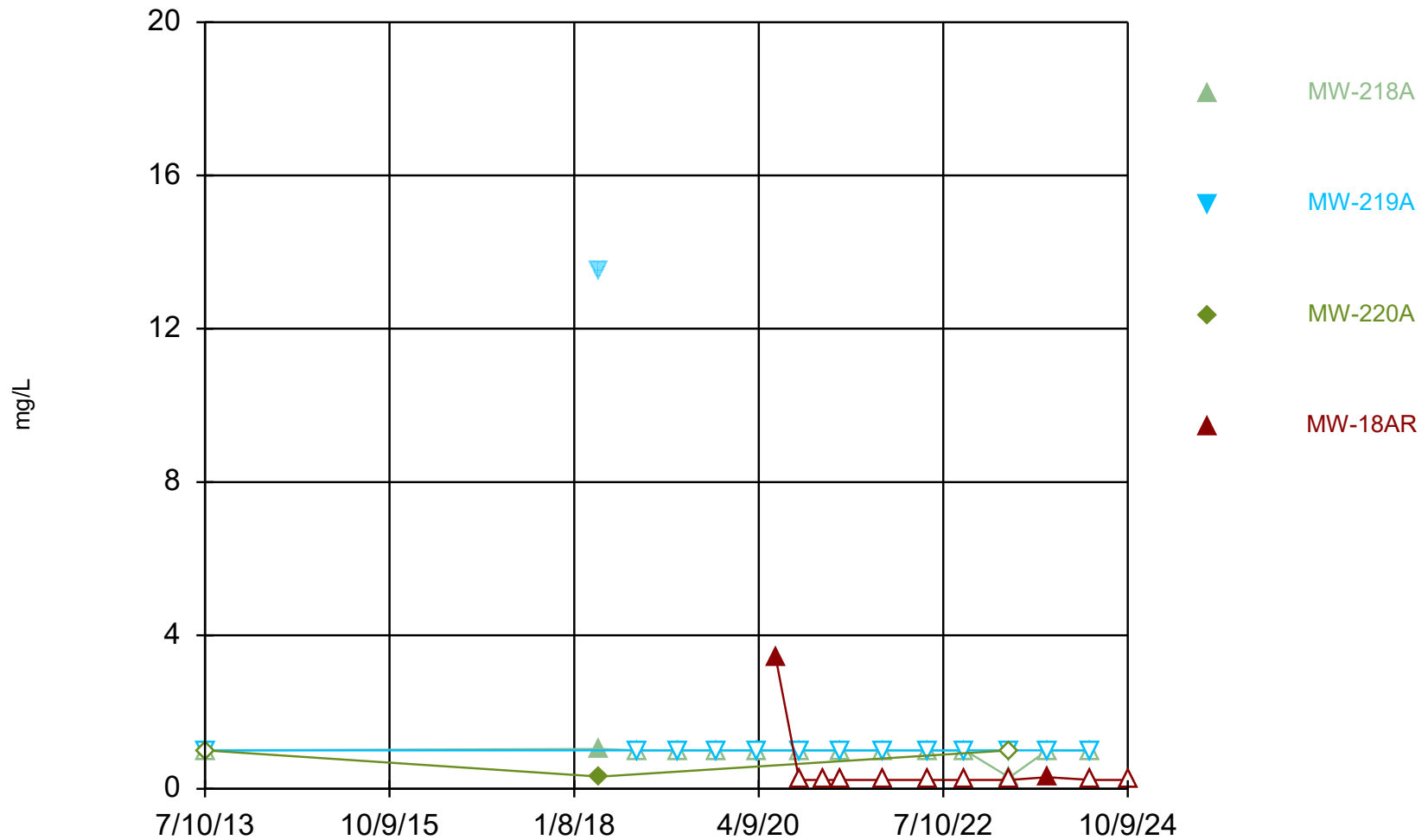
Constituent: Silver Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



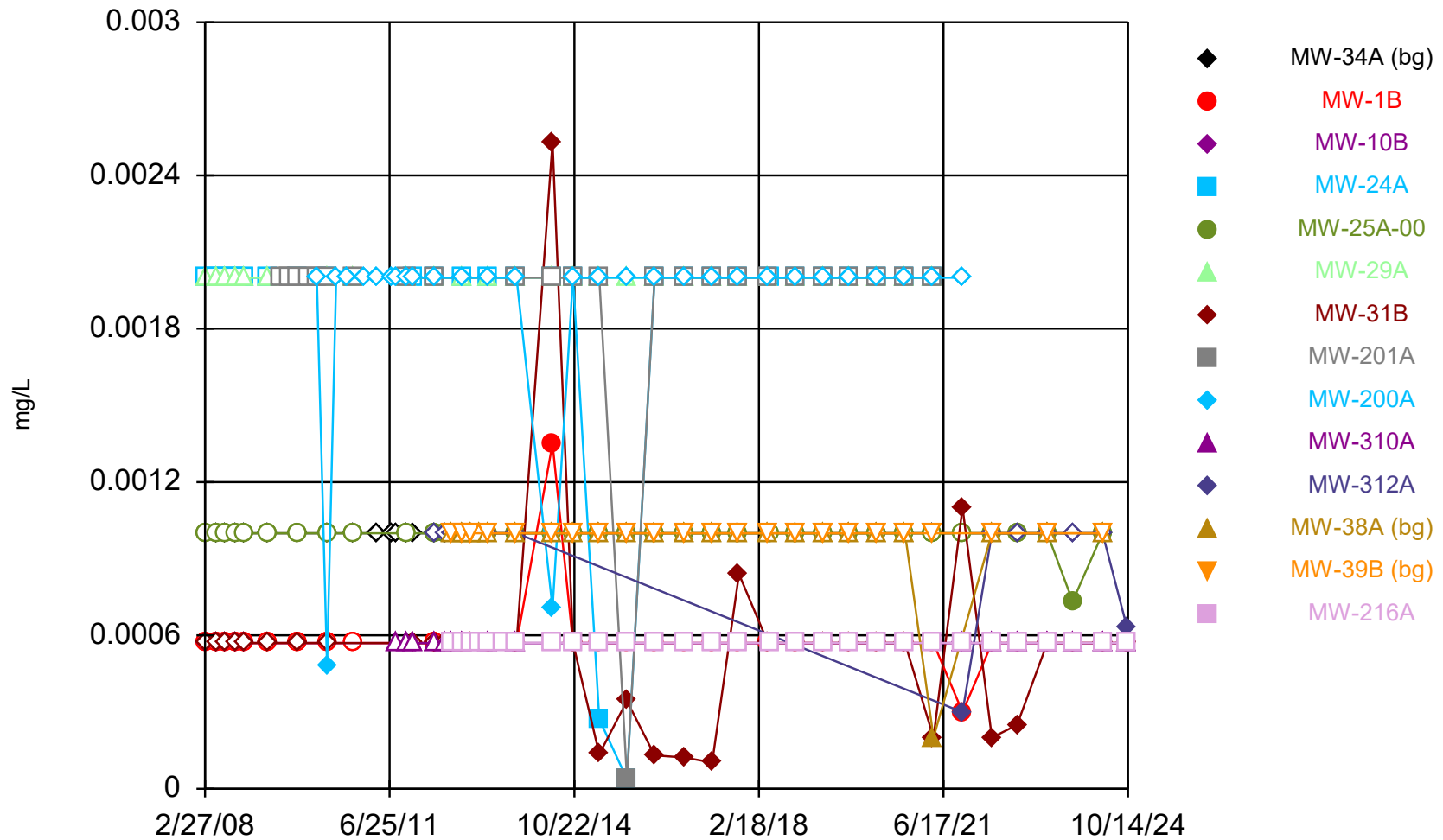
Constituent: Sulfide Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



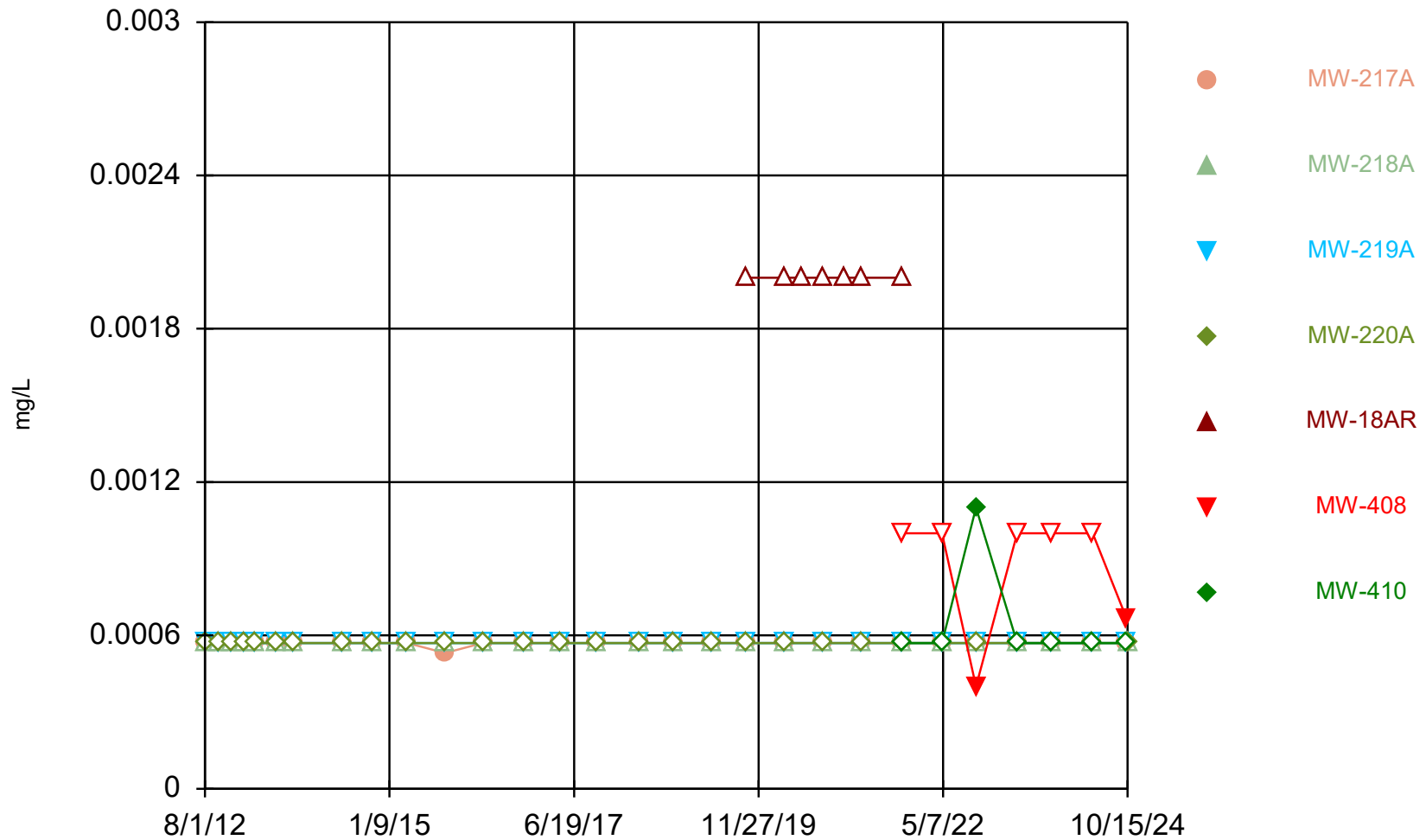
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



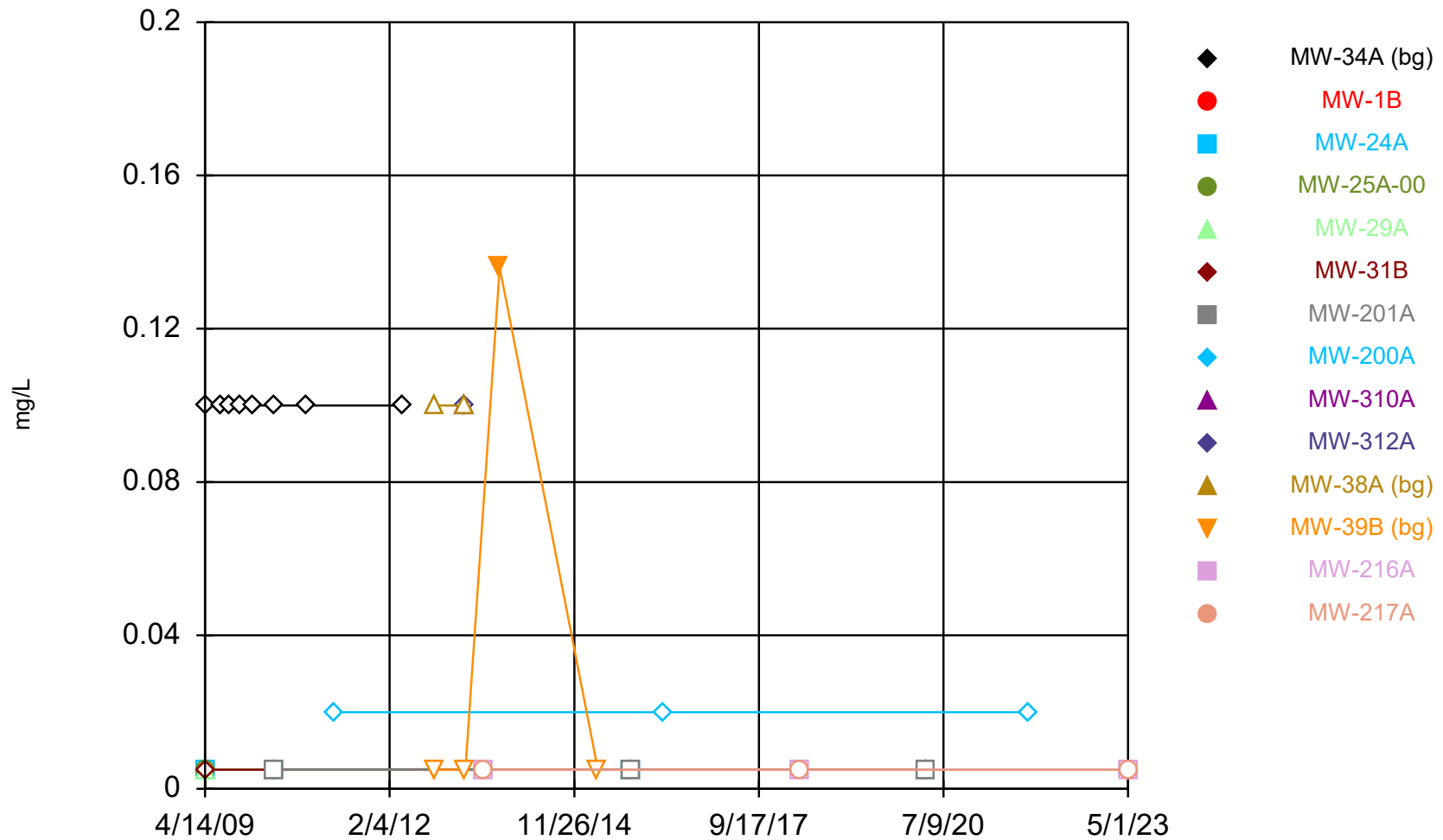
Constituent: Thallium Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



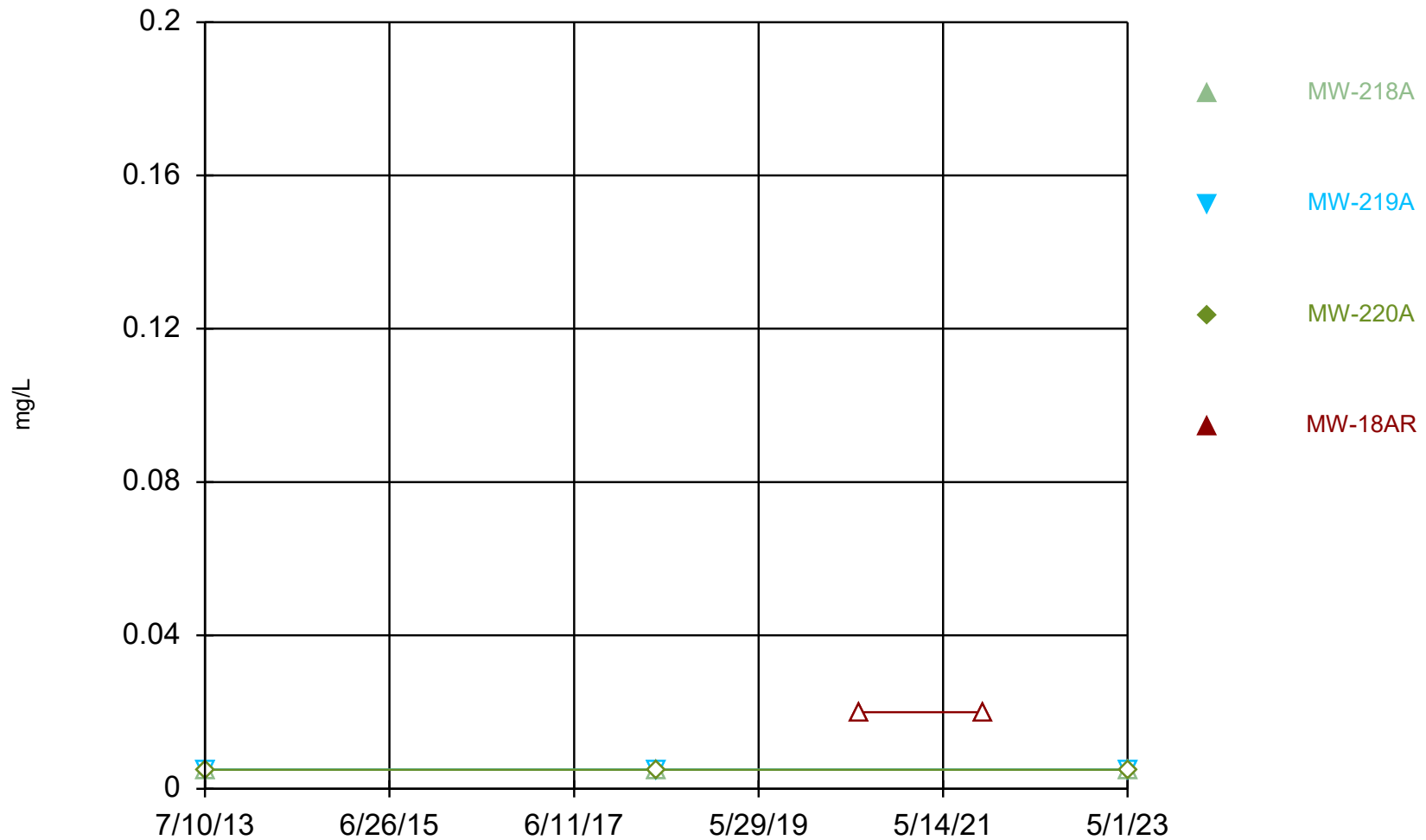
Constituent: Thallium Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



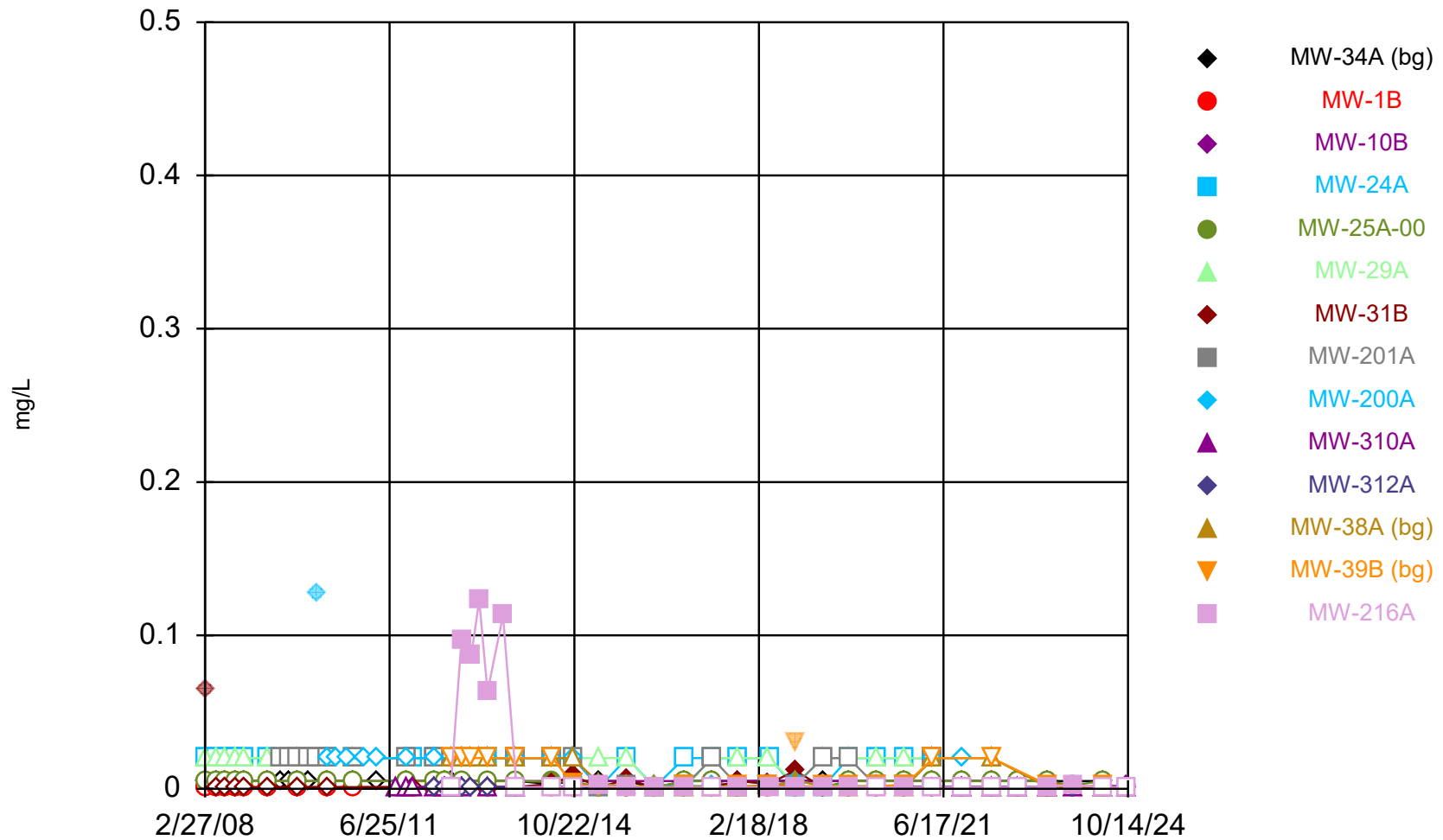
Constituent: Tin Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



Constituent: Tin Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

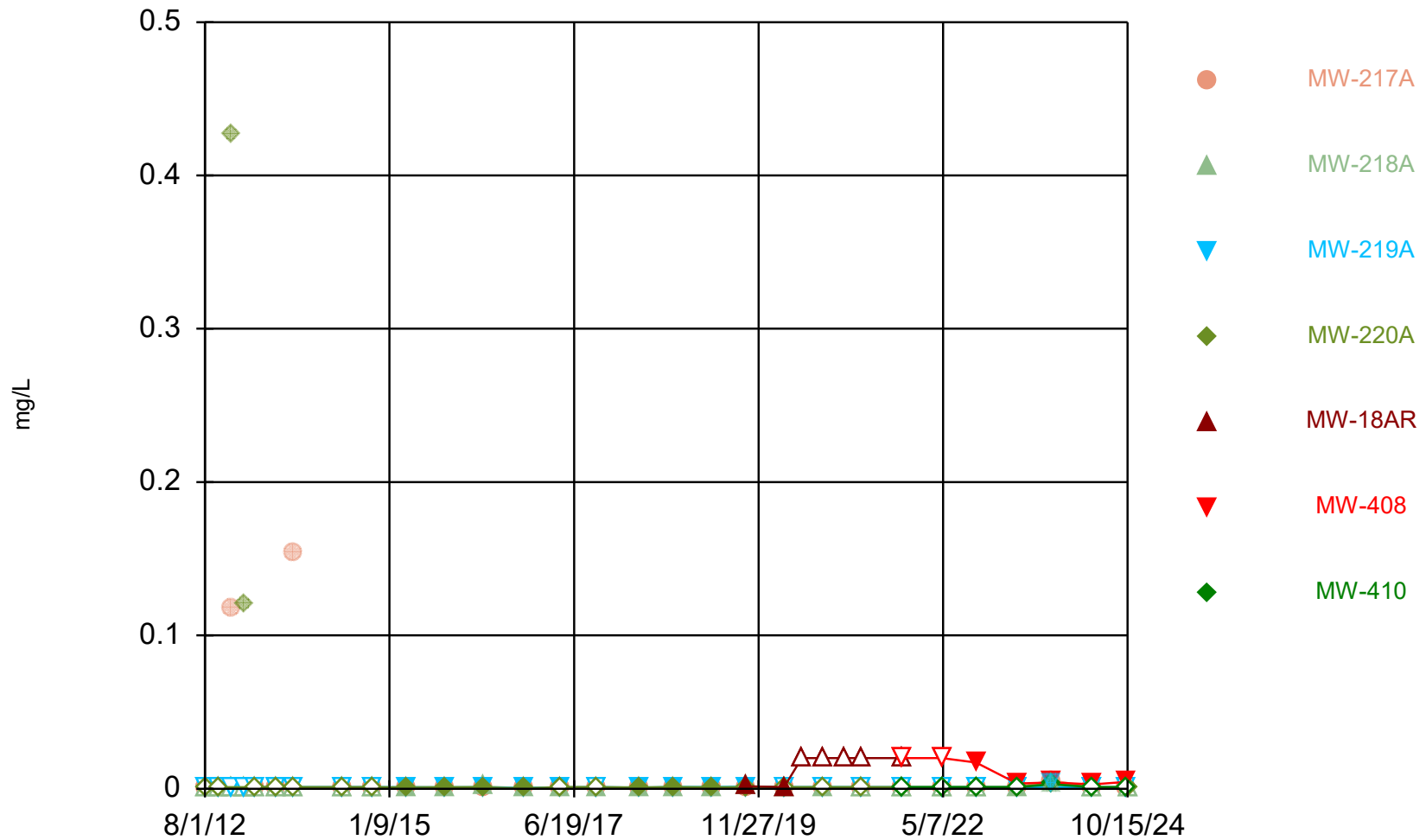
Time Series



Constituent: Vanadium Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall

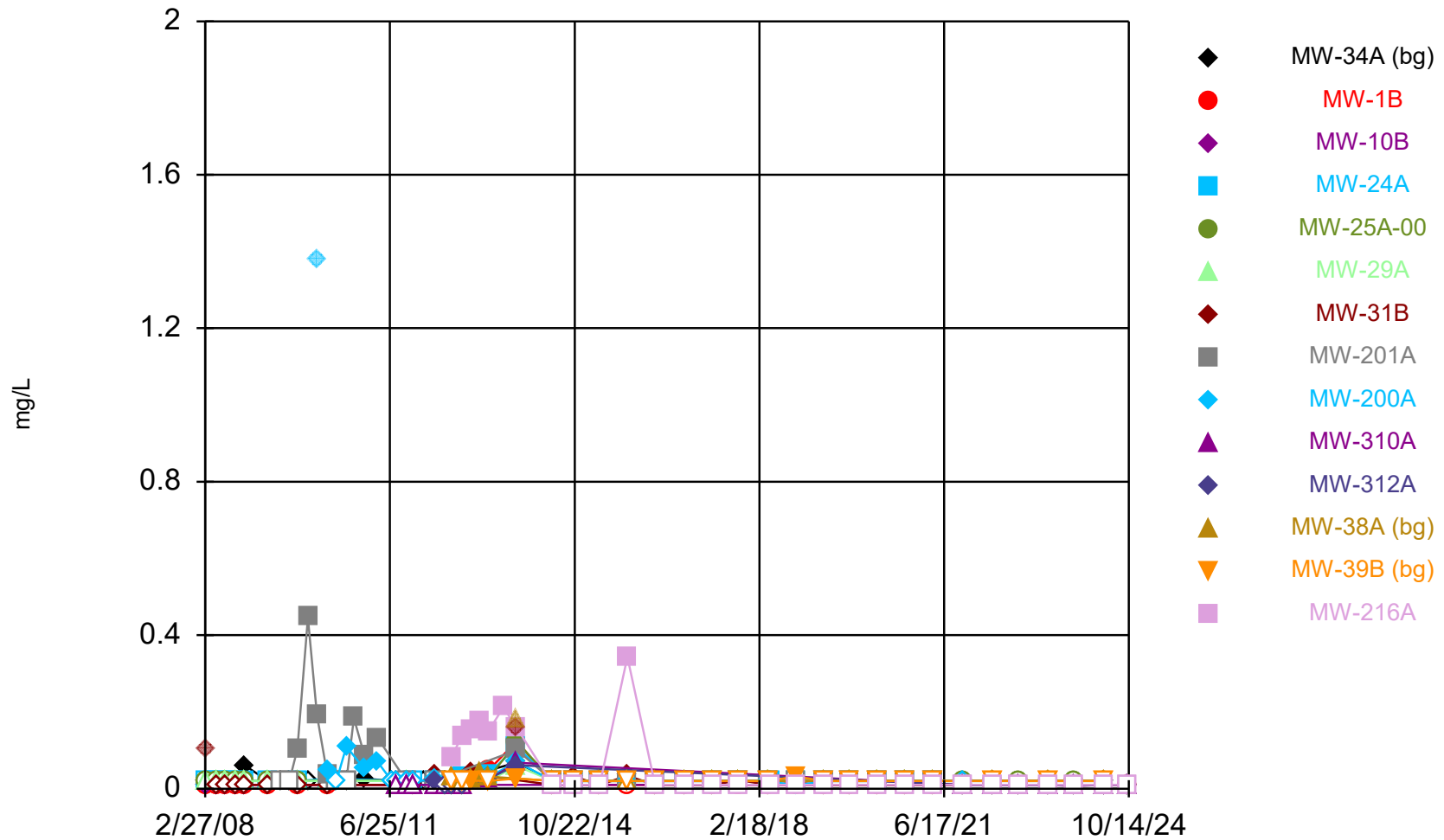
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



Constituent: Vanadium Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

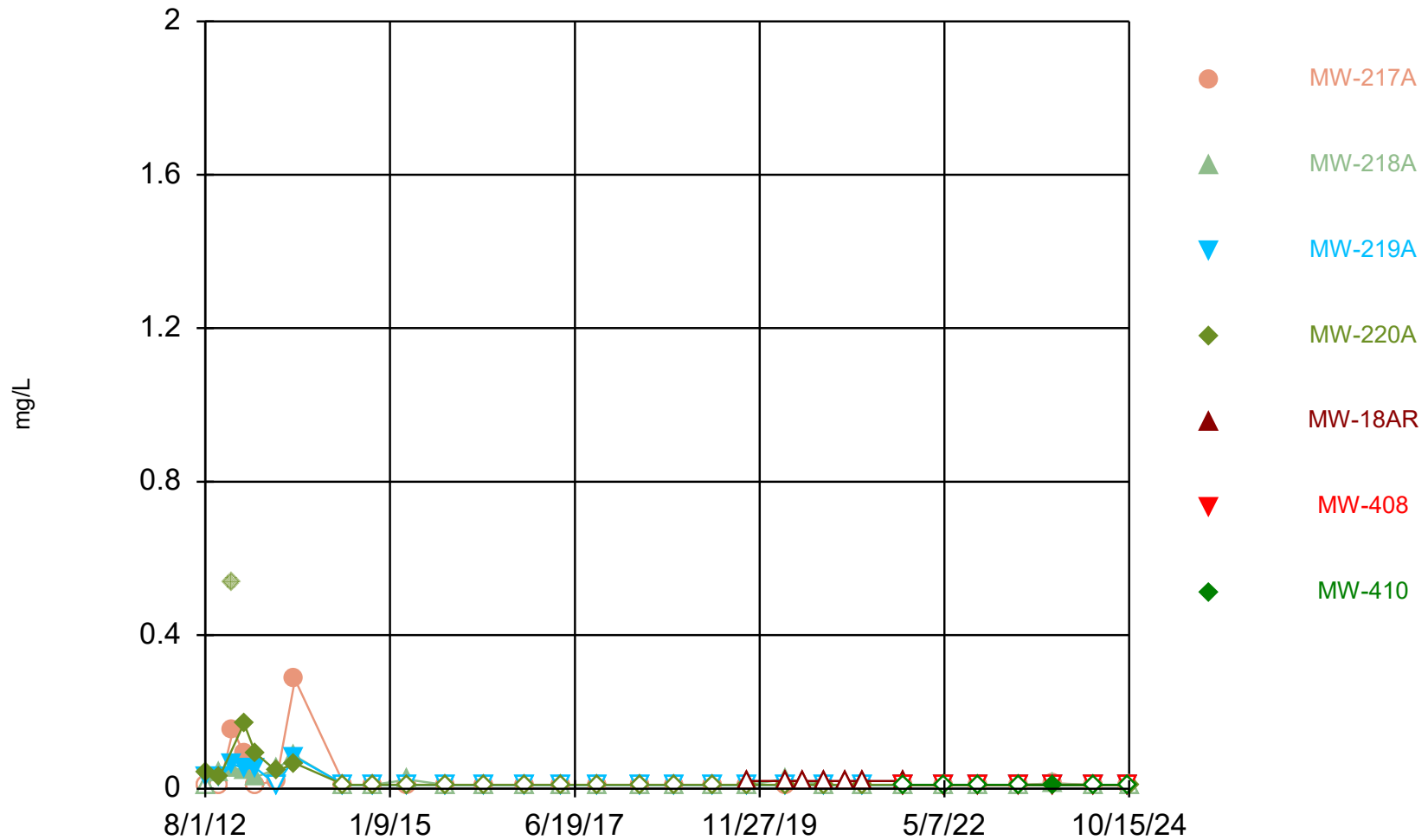
Time Series



Constituent: Zinc Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall

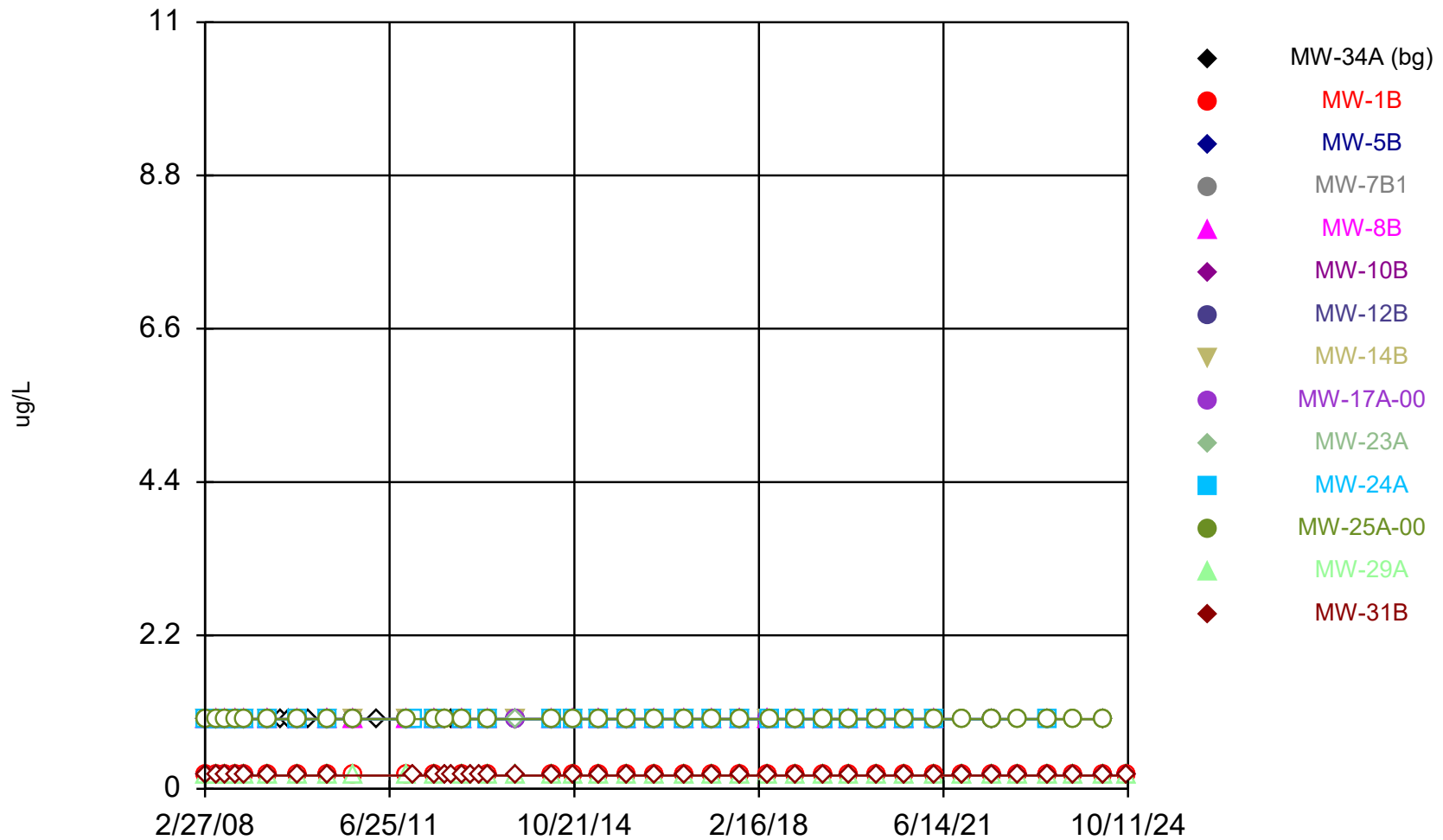
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Time Series



Constituent: Zinc Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

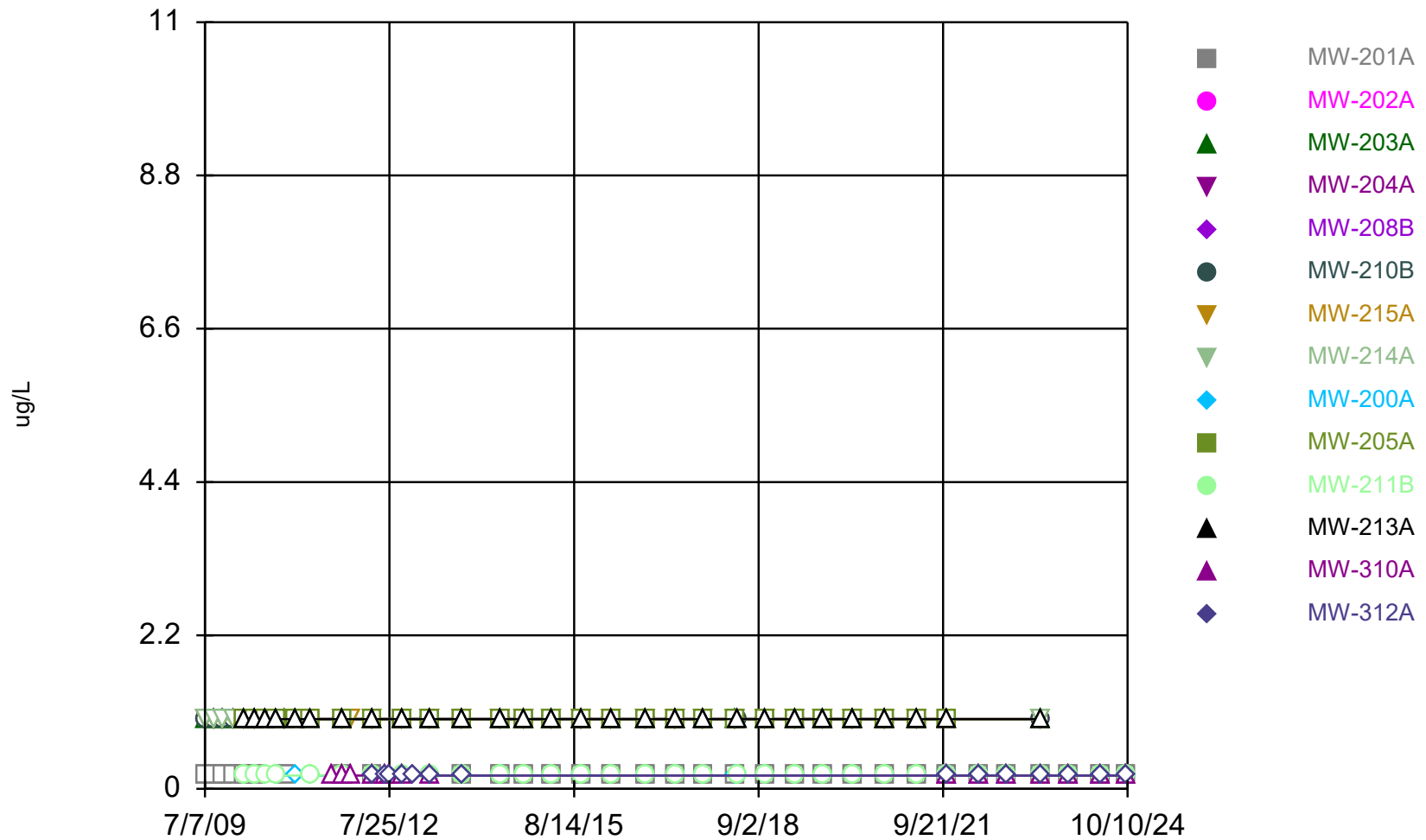
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

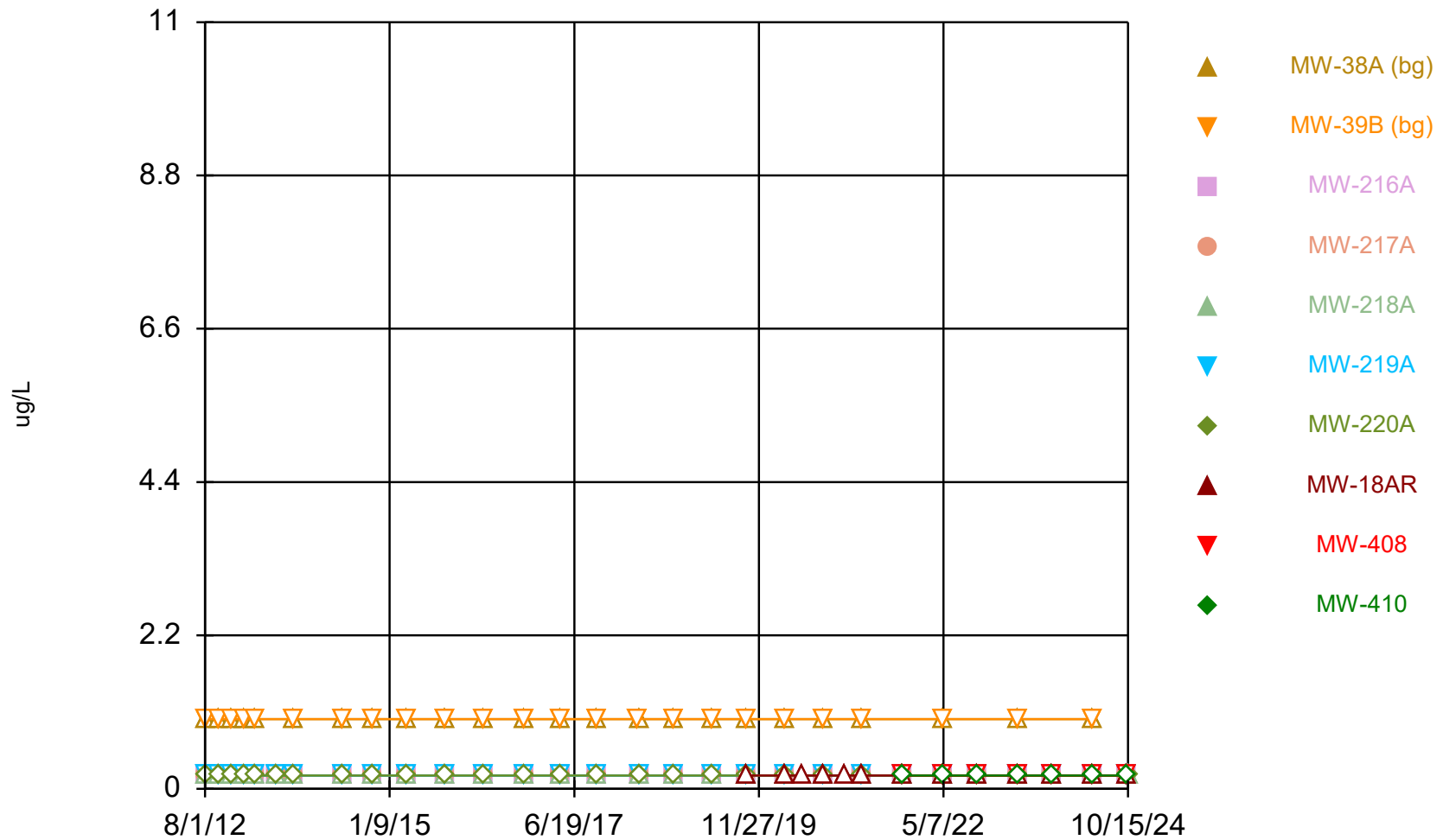
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

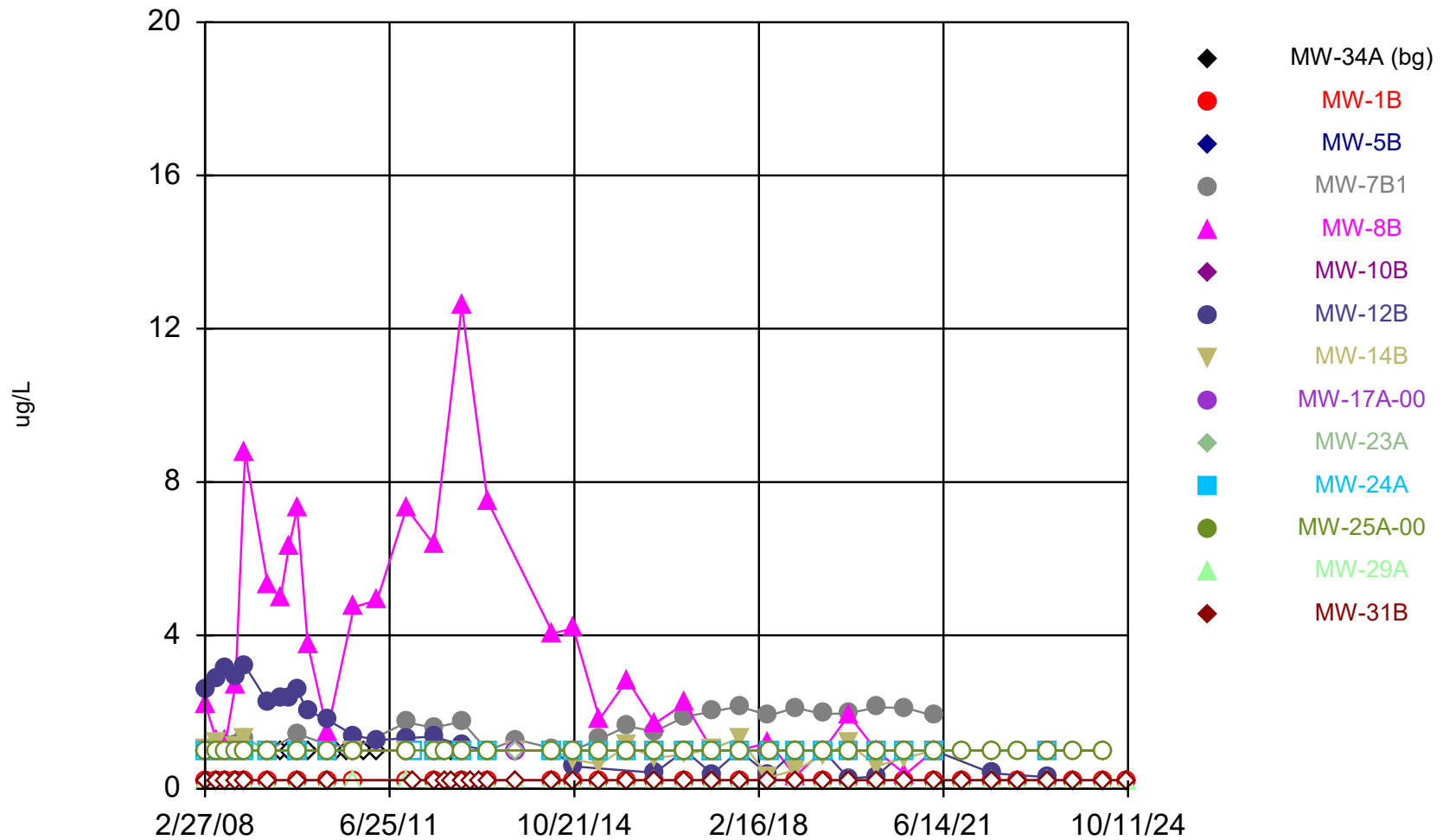
Time Series



Constituent: 1,1,1-Trichloroethane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

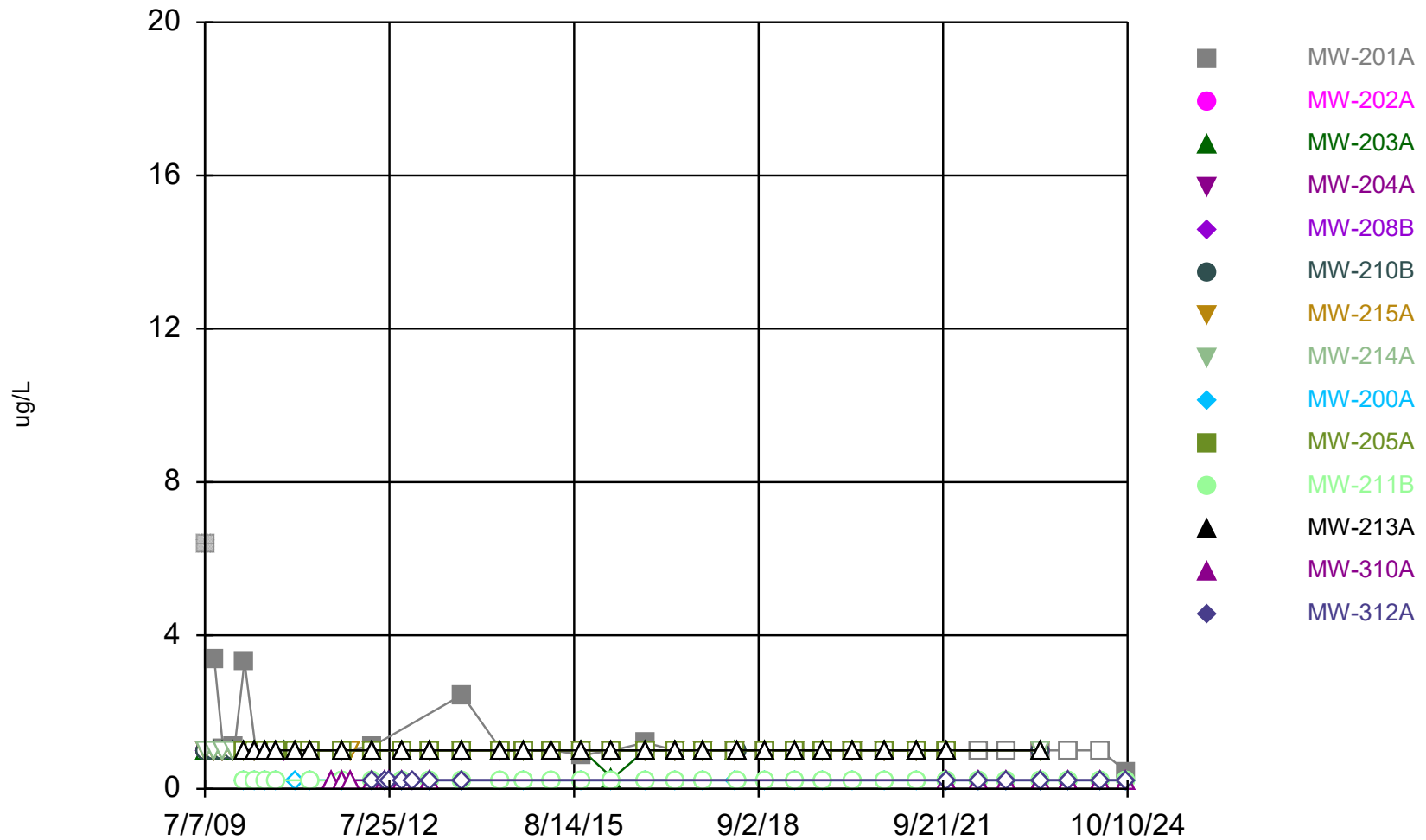
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

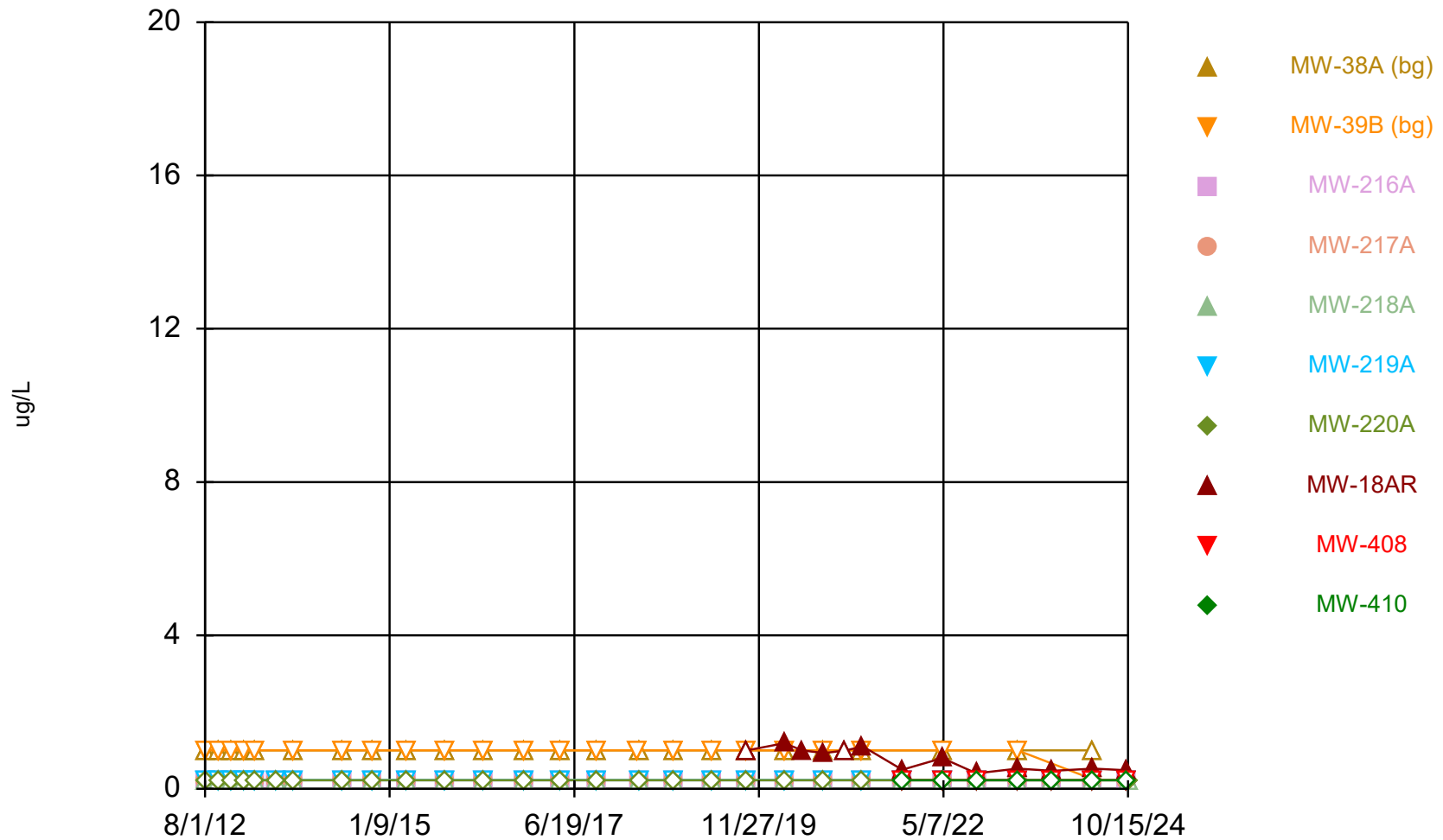
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

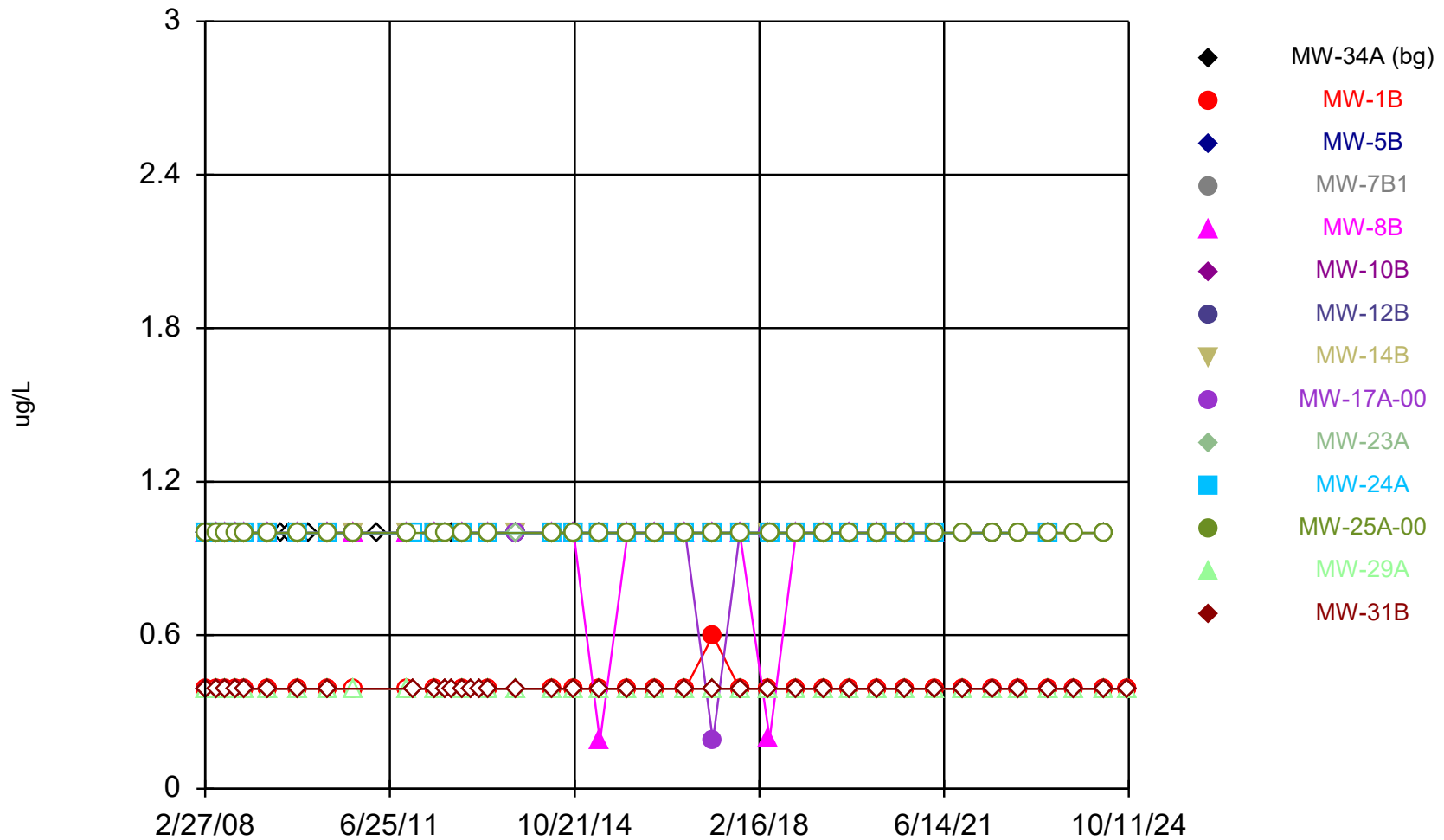
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

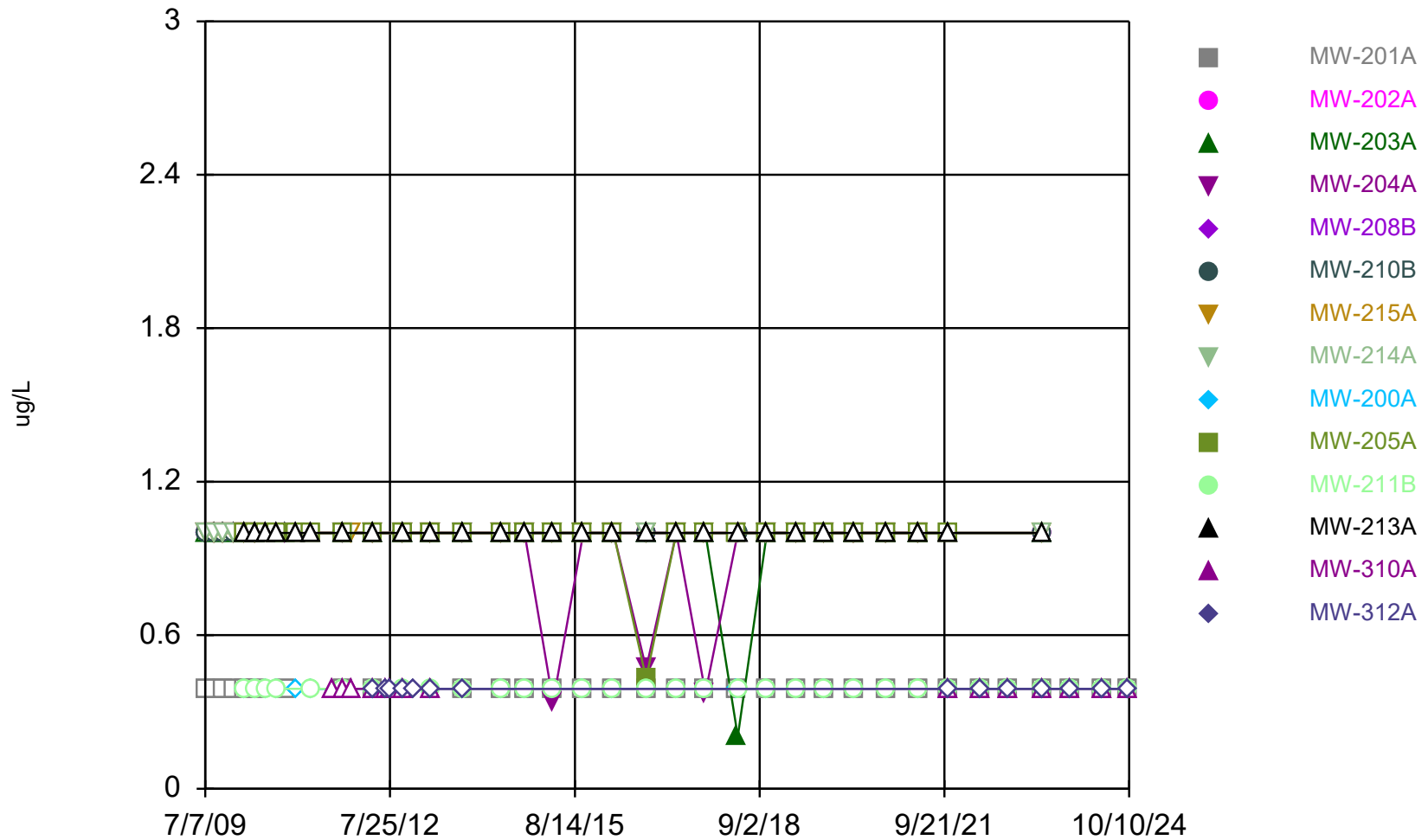
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

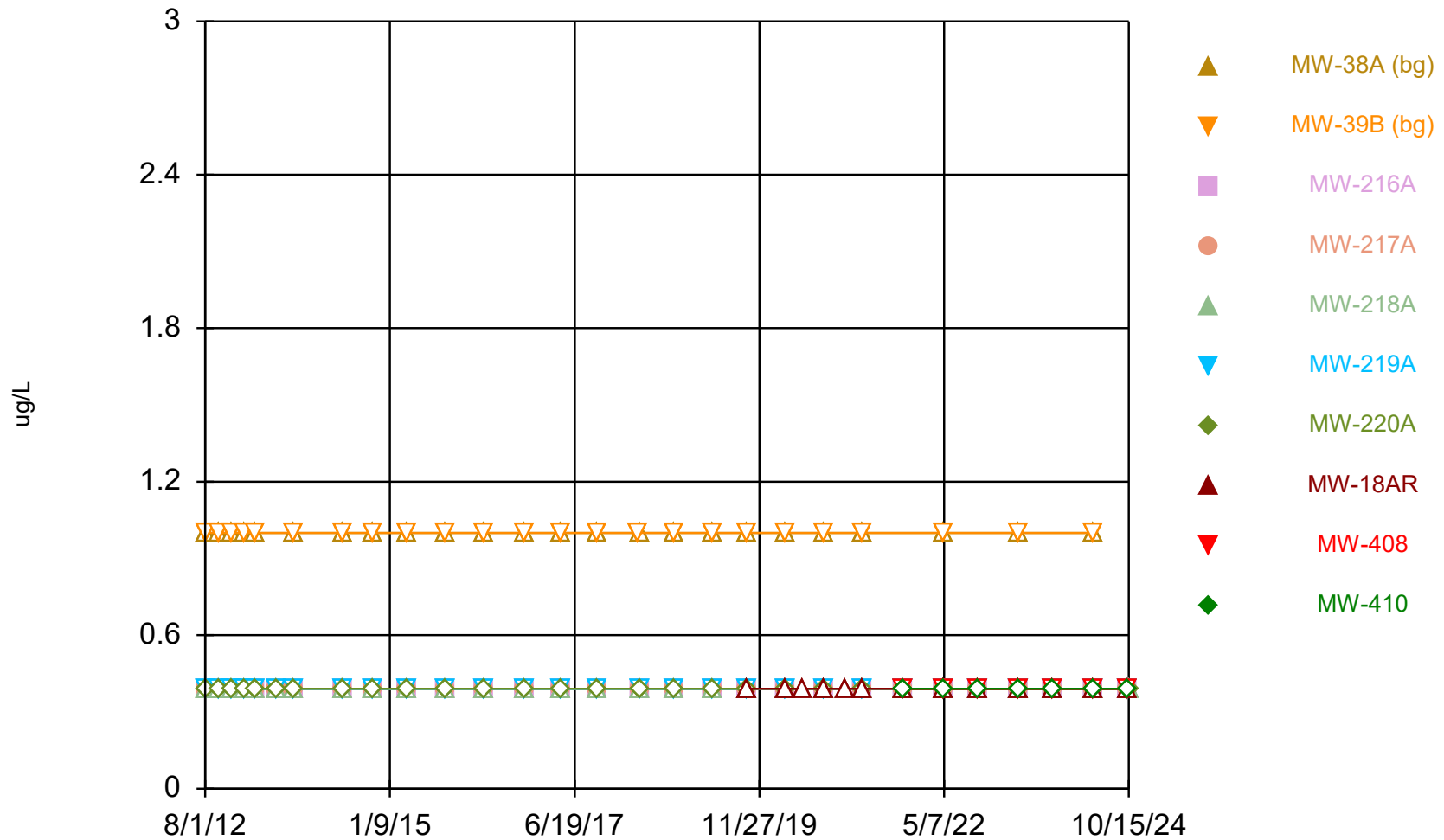
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

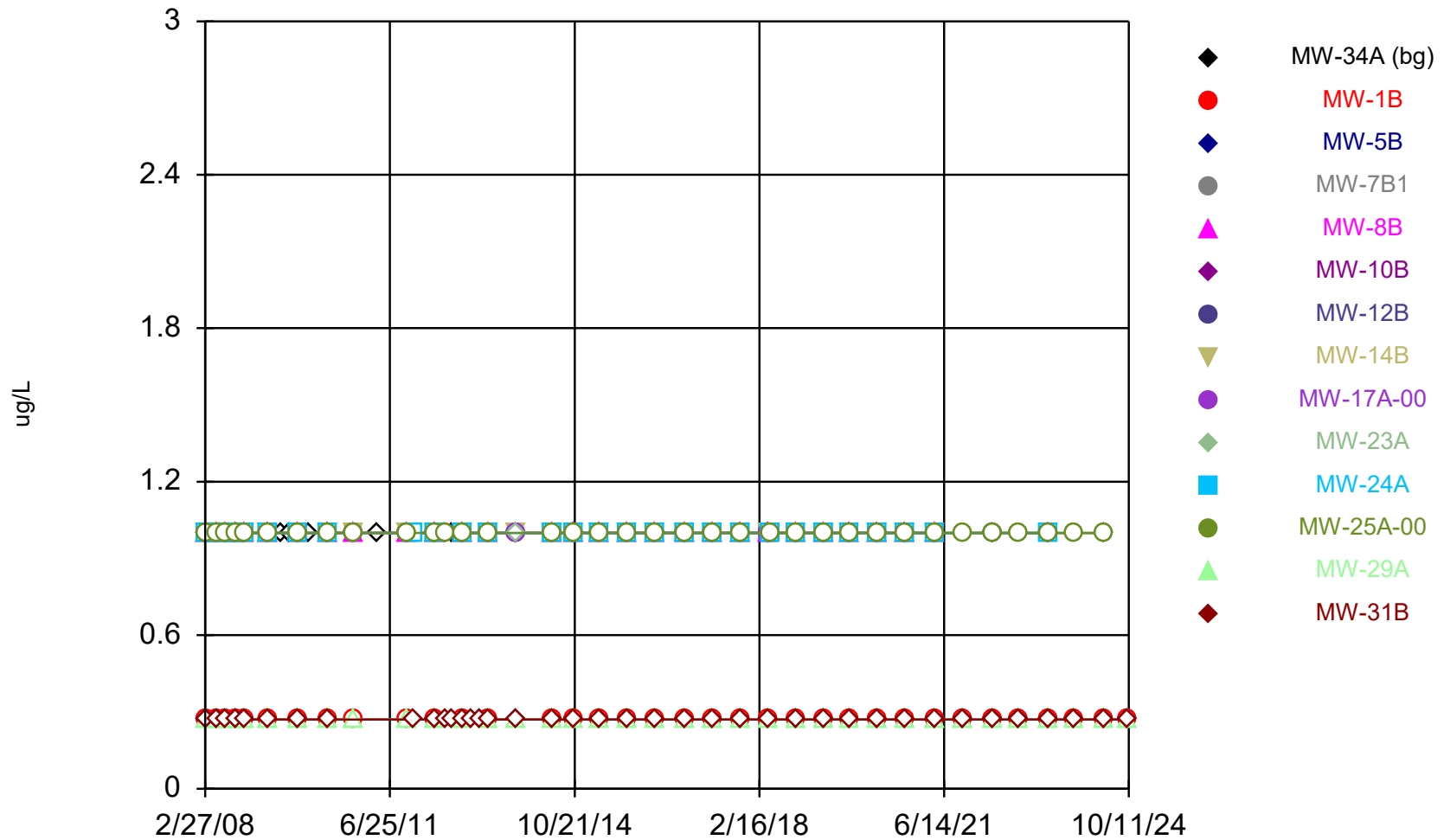
Time Series



Constituent: 1,2-Dichloroethane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

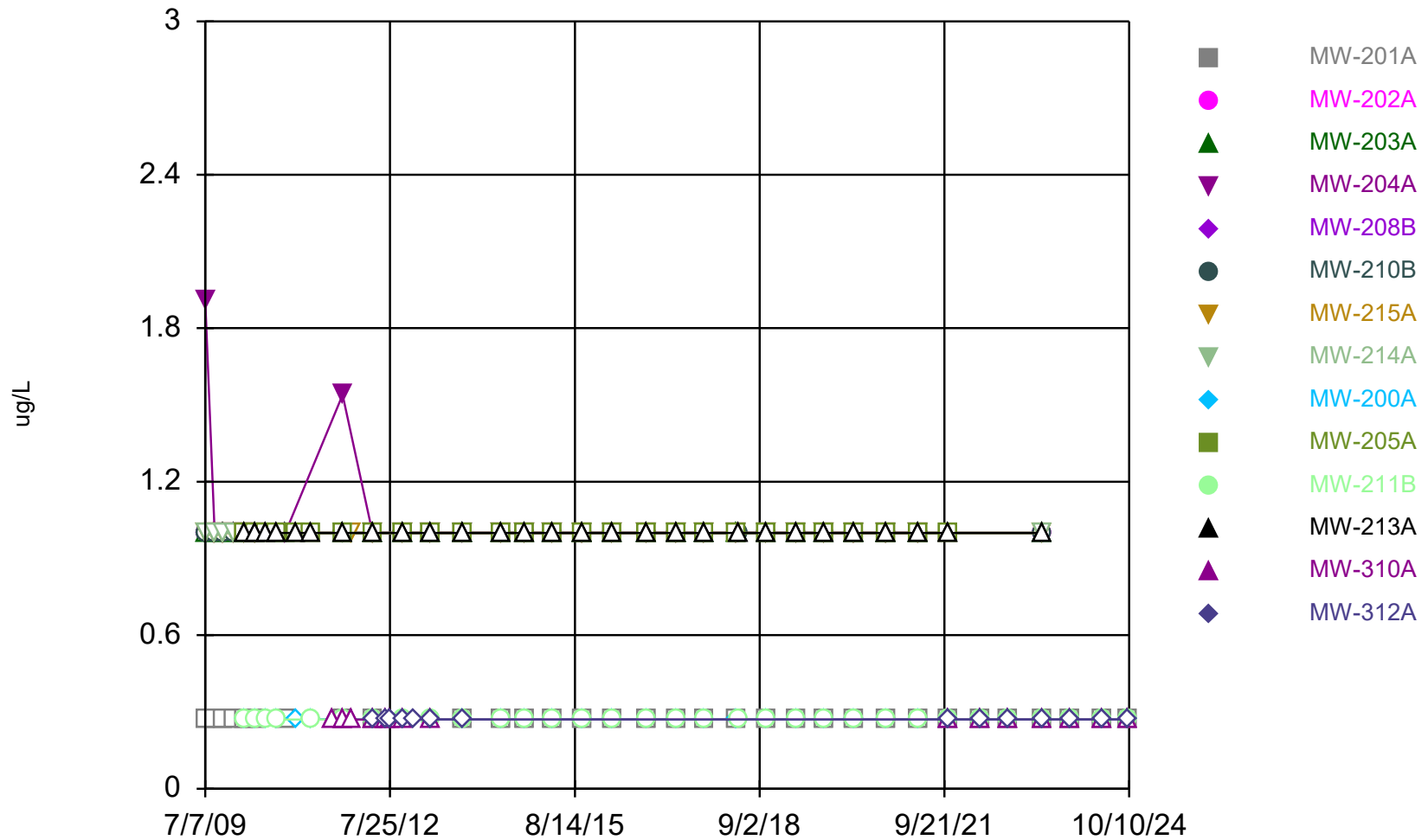
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



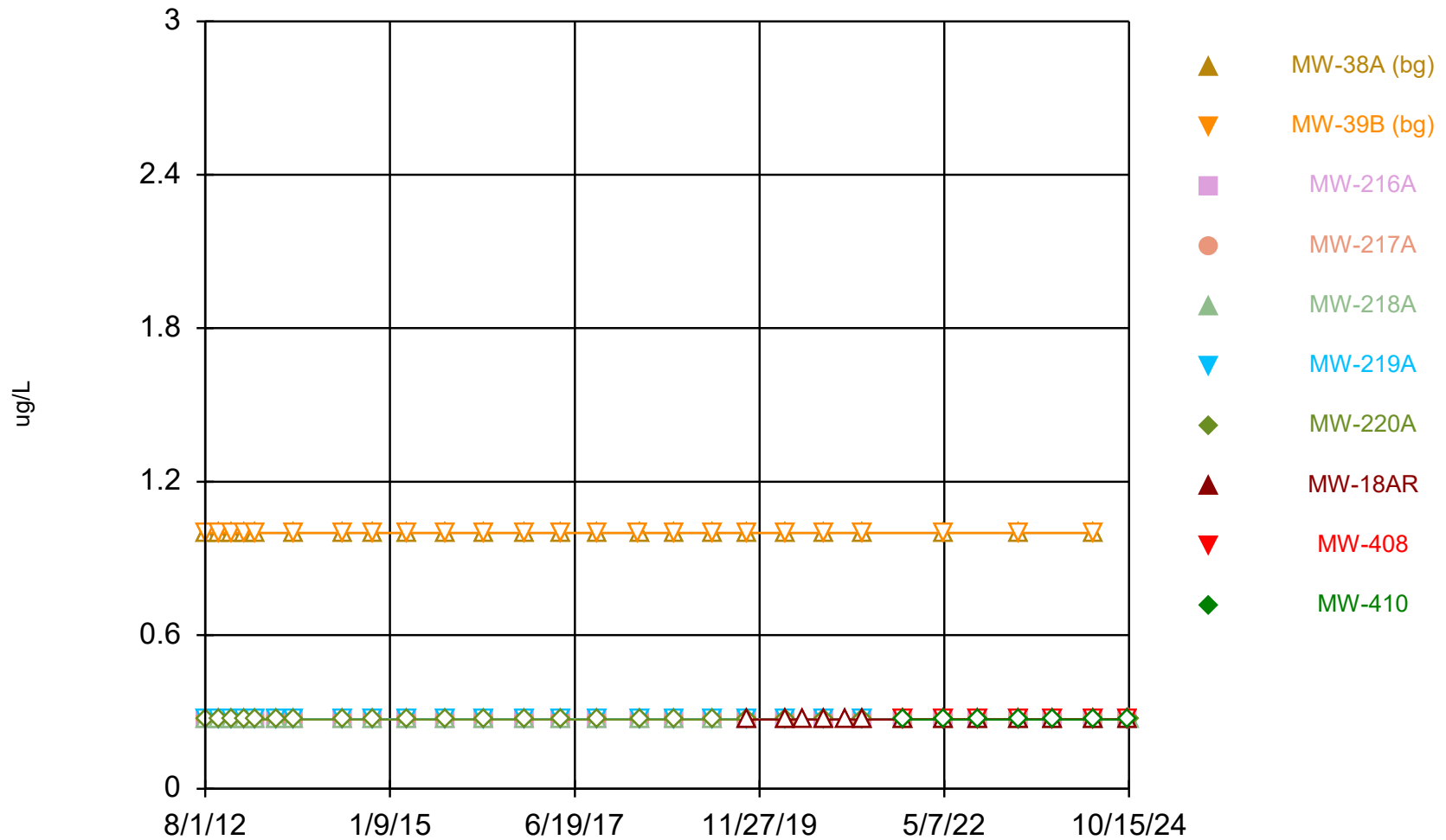
Constituent: 1,2-Dichloropropane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: 1,2-Dichloropropane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

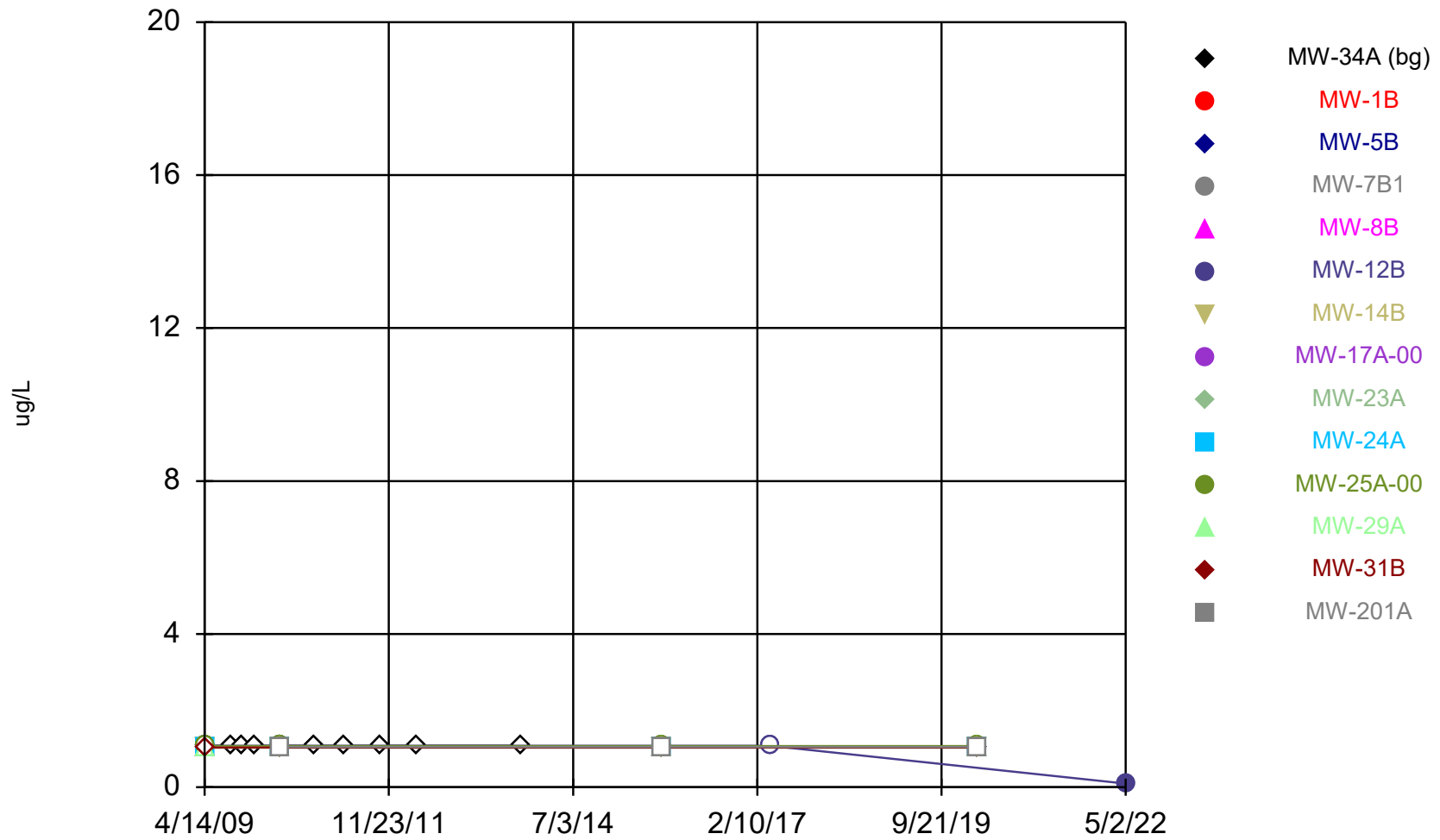
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

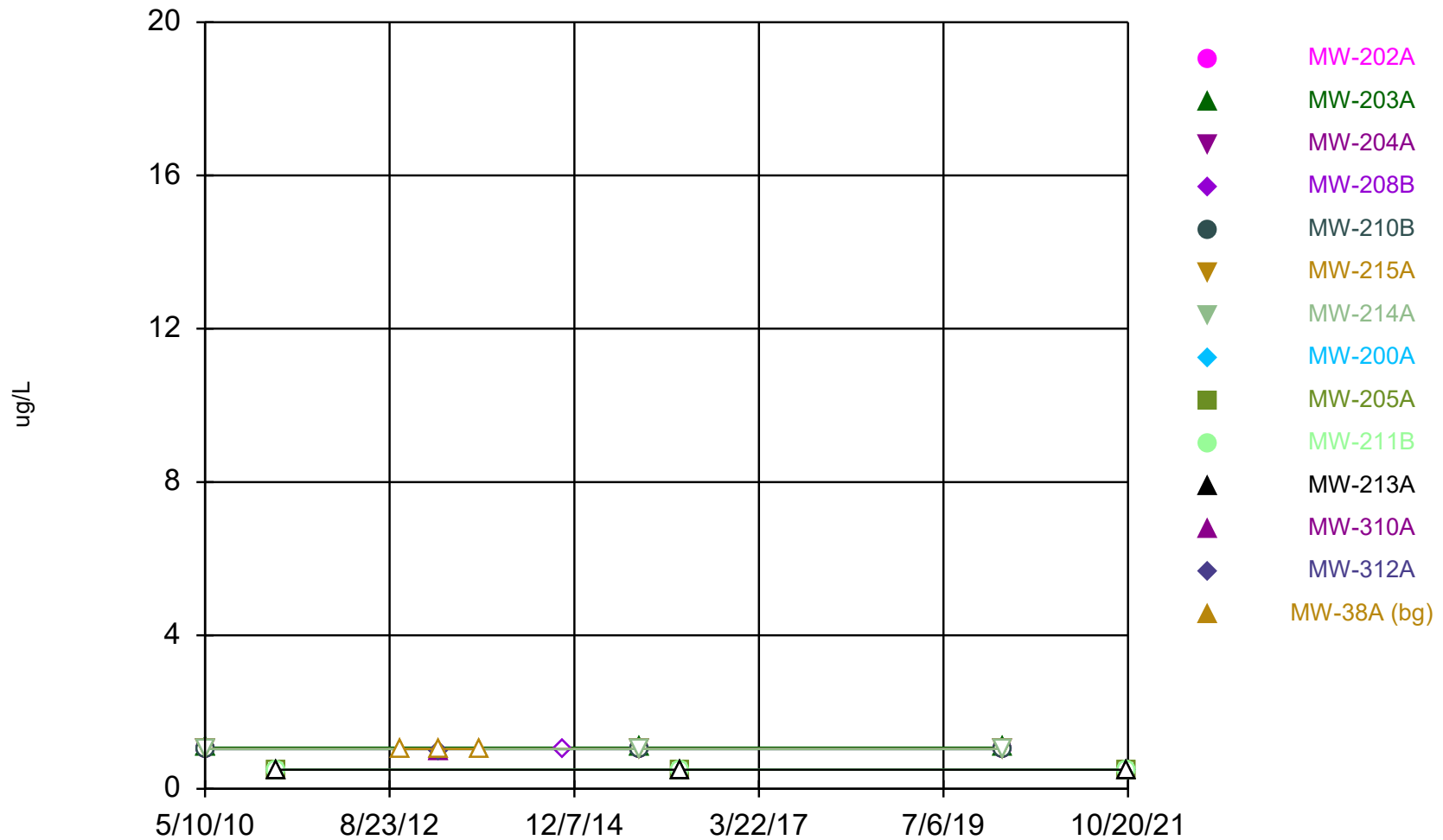
Time Series



Constituent: 2,4,5-TP [Silvex] Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

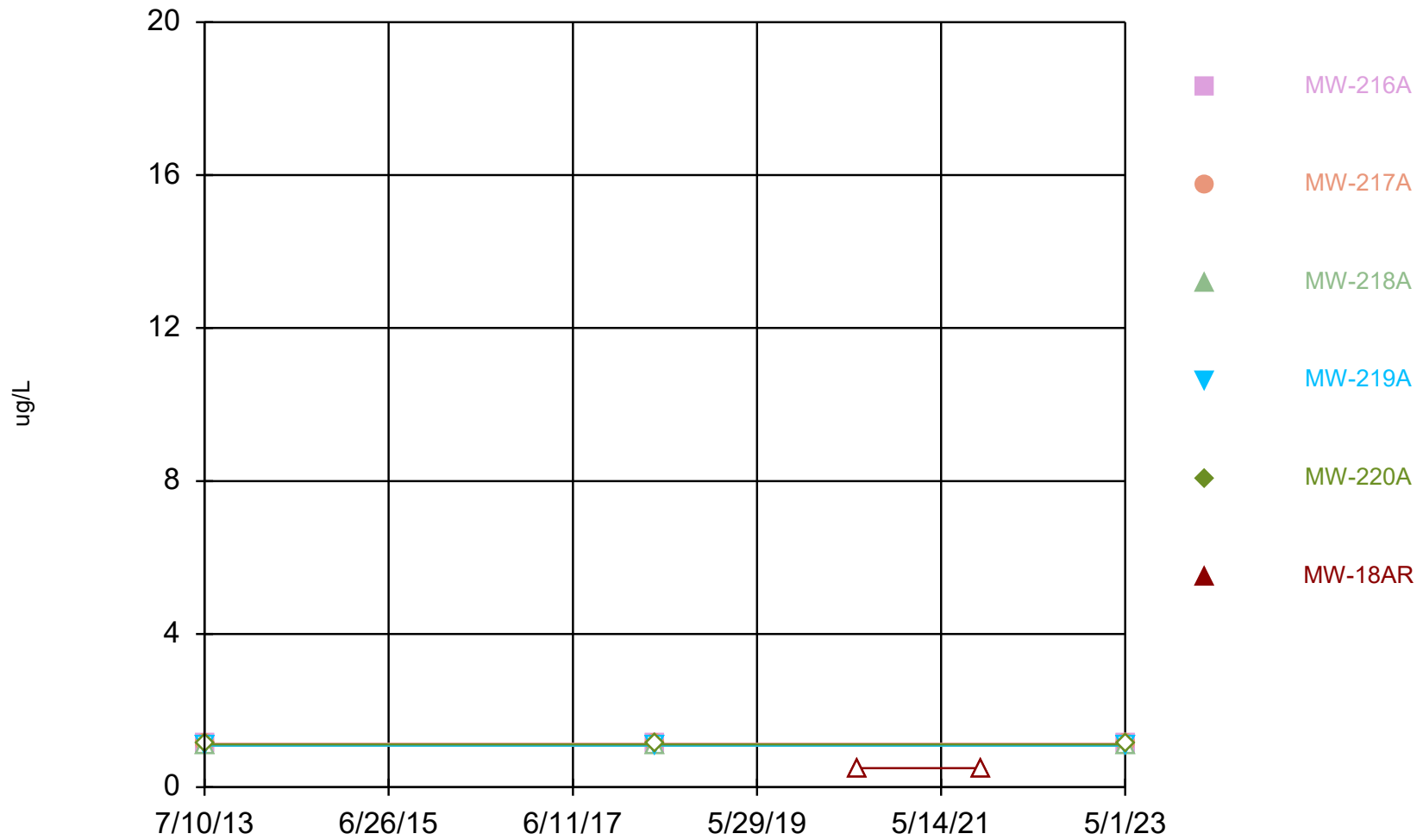
Time Series



Constituent: 2,4,5-TP [Silvex] Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

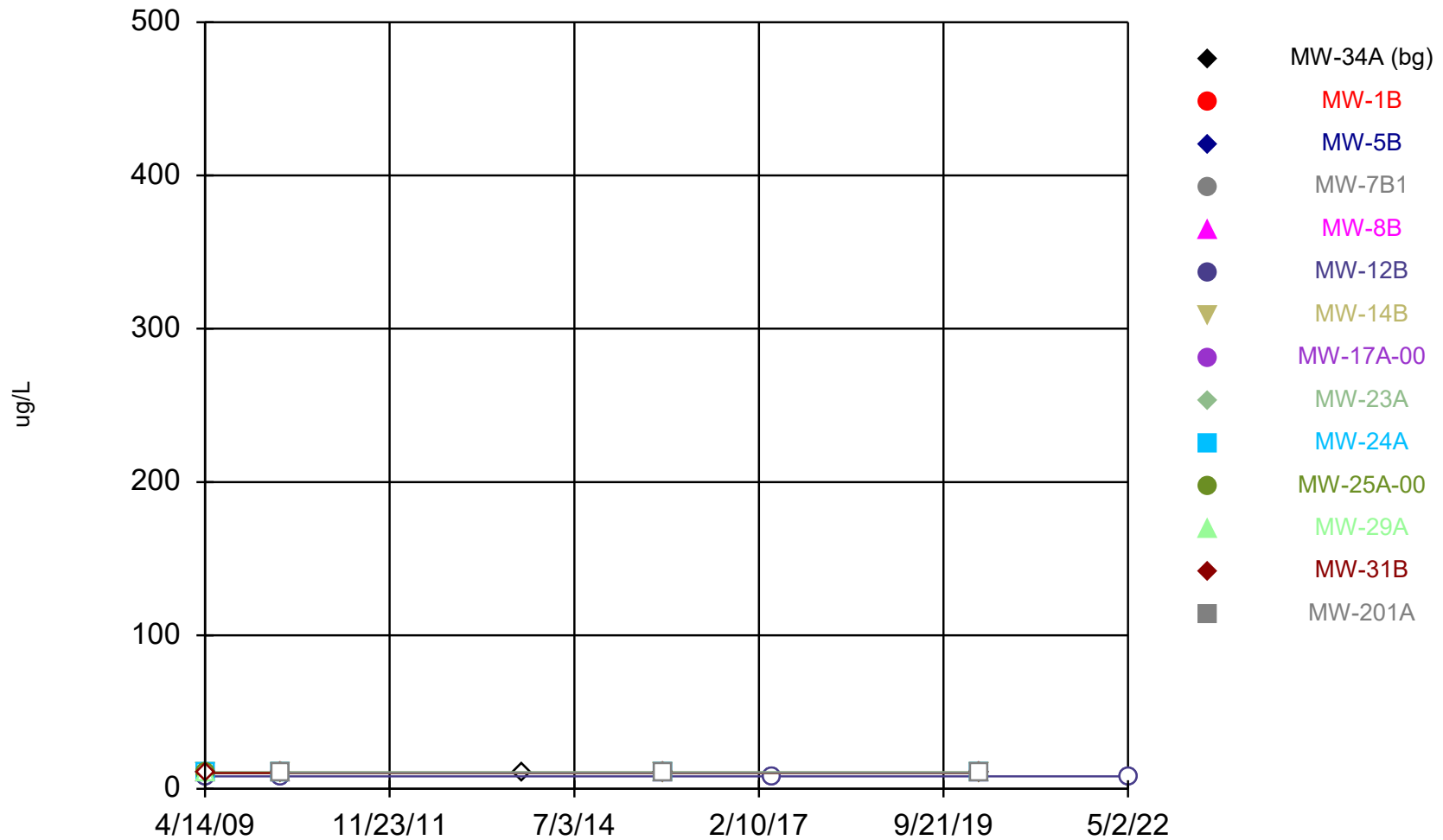
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: 2,4,5-TP [Silvex] Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

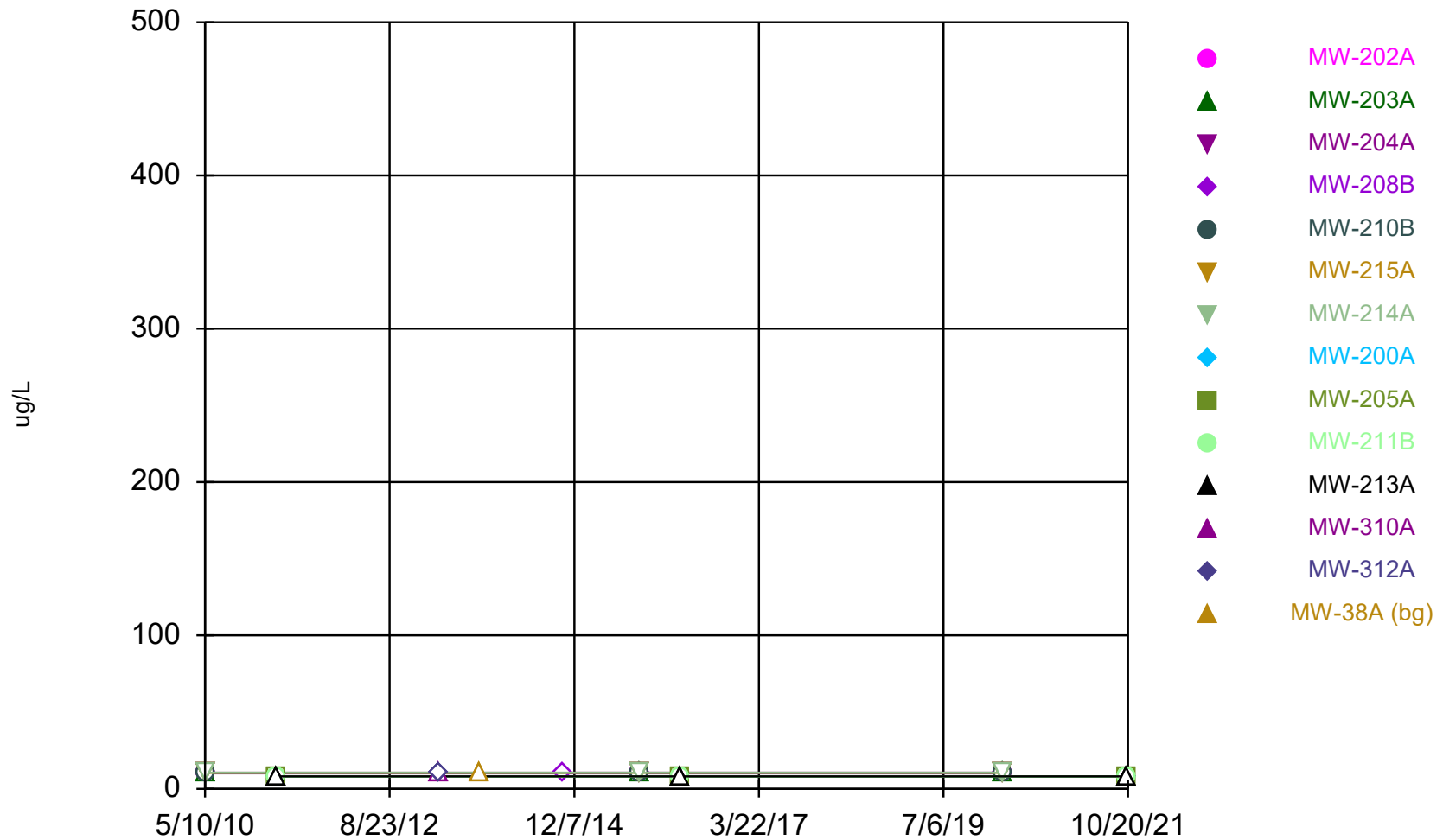
Time Series



Constituent: 2,4-Dimethylphenol Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

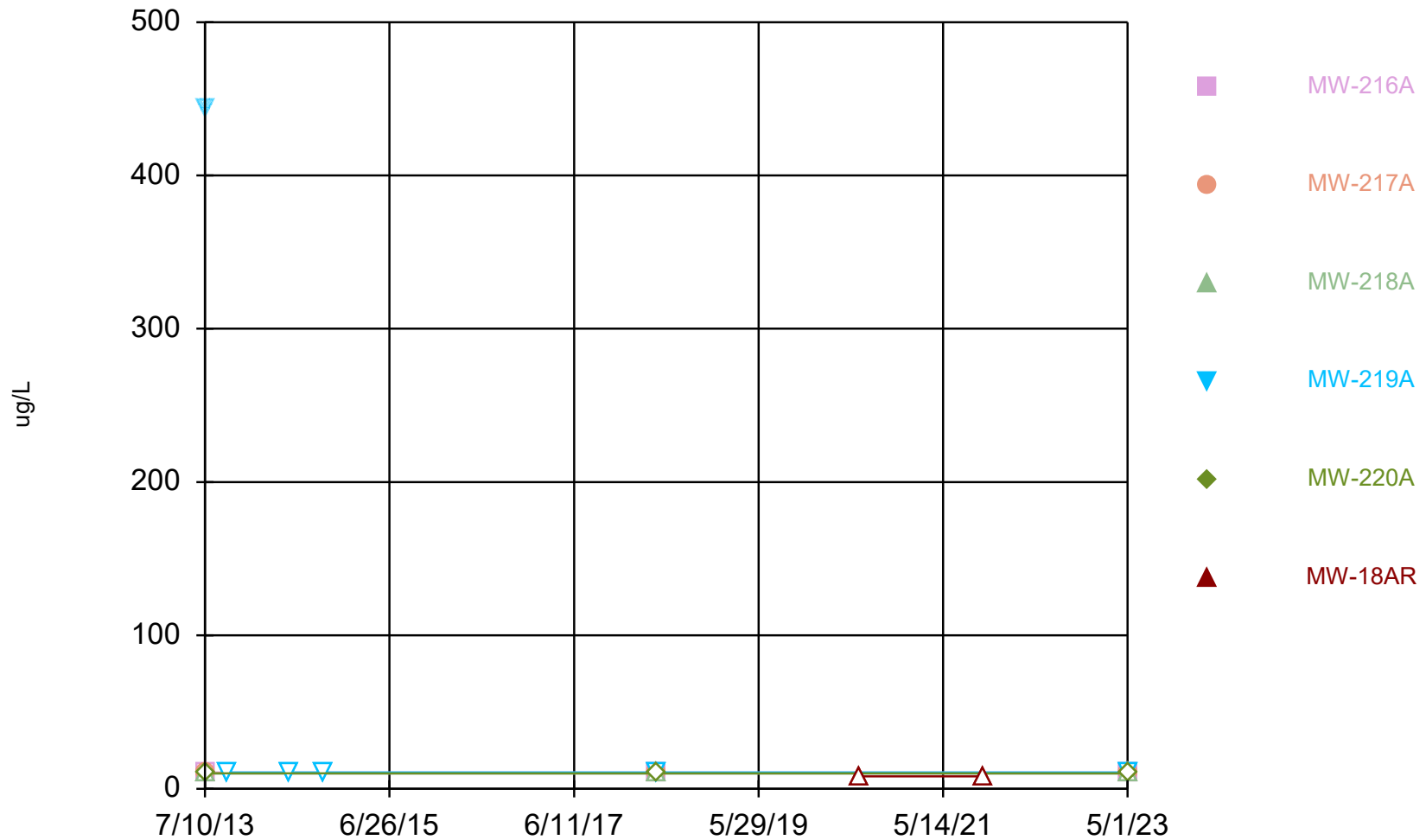
Time Series



Constituent: 2,4-Dimethylphenol Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

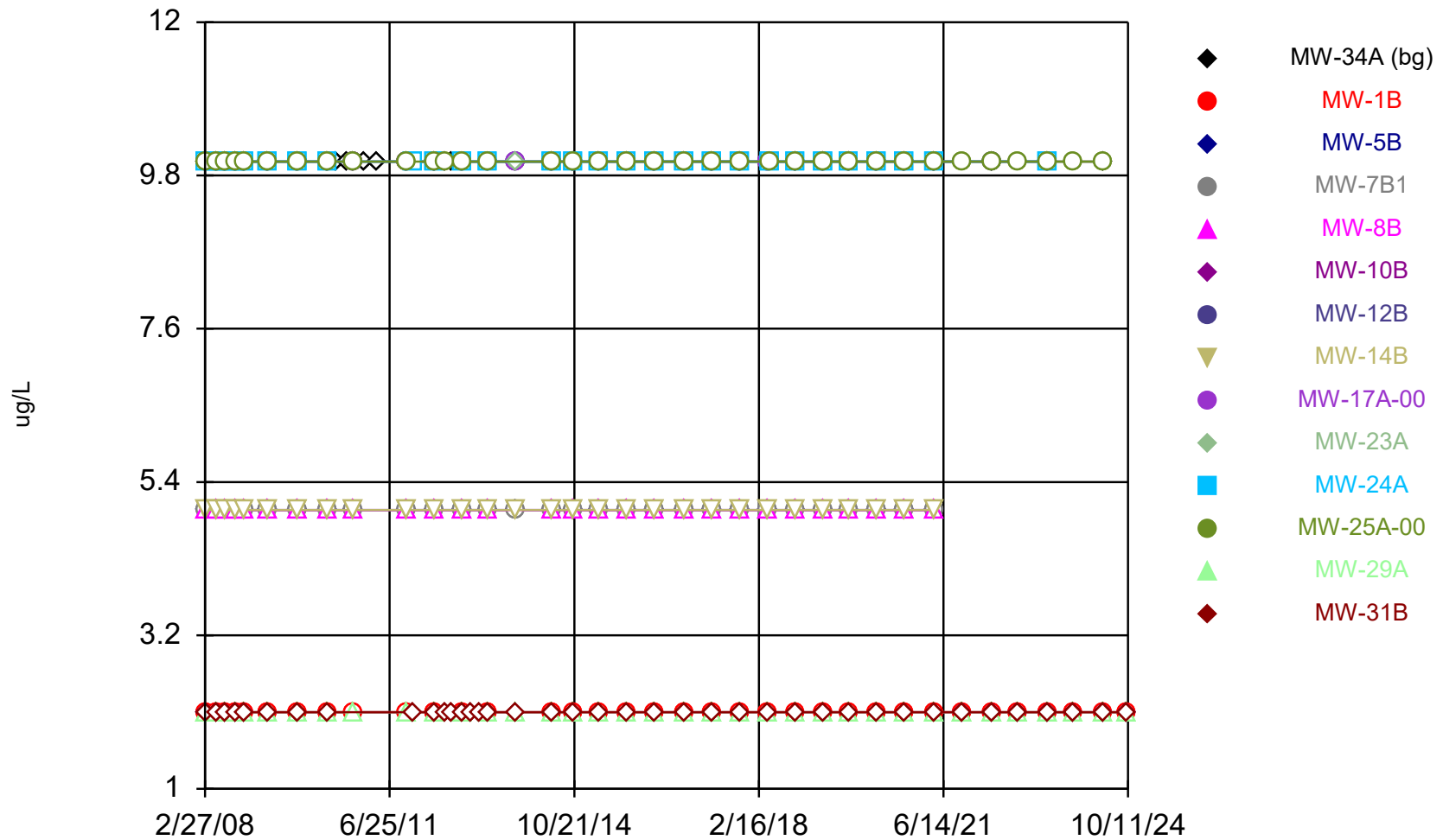
Time Series



Constituent: 2,4-Dimethylphenol Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

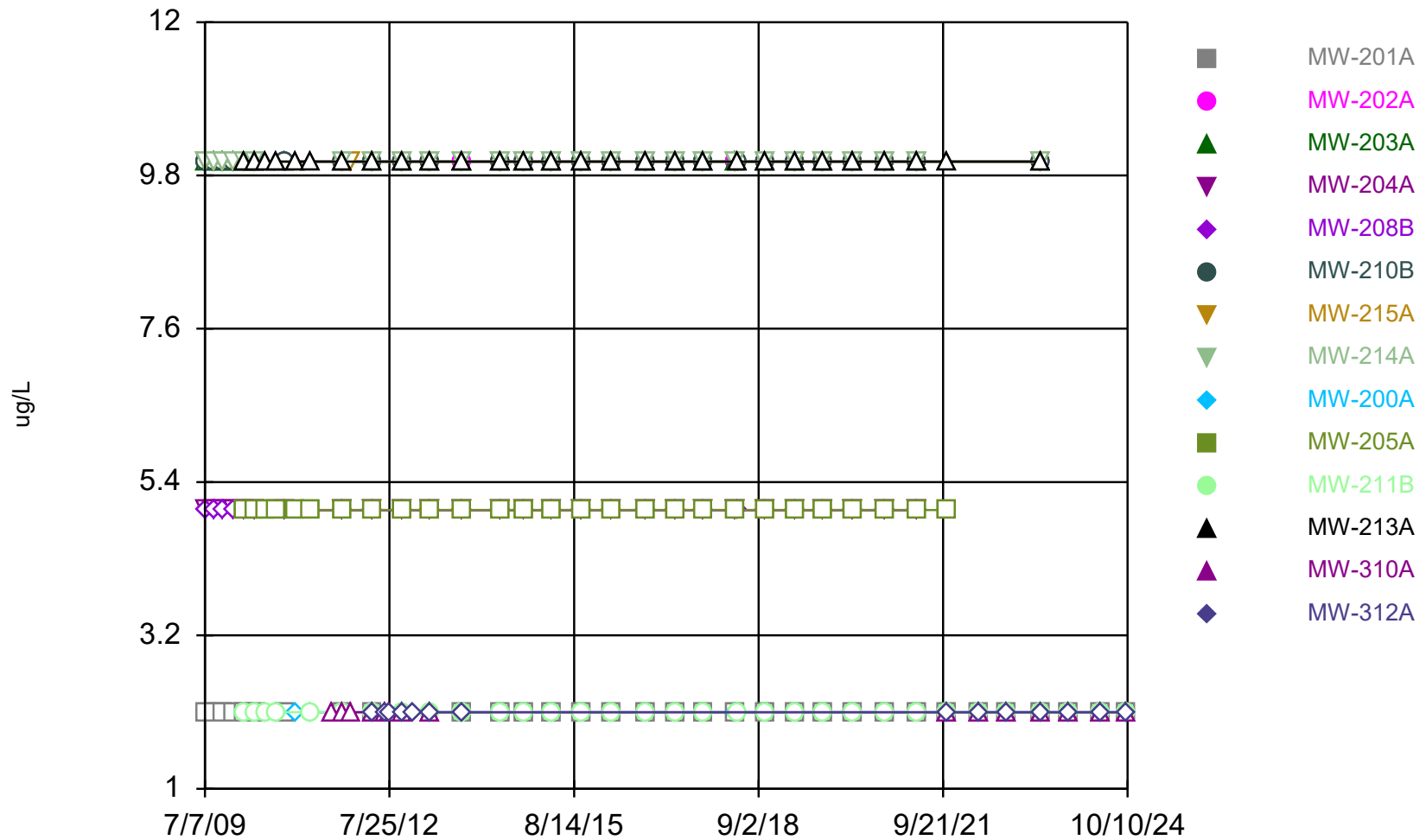
Time Series



Constituent: 2-Butanone [MEK] Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

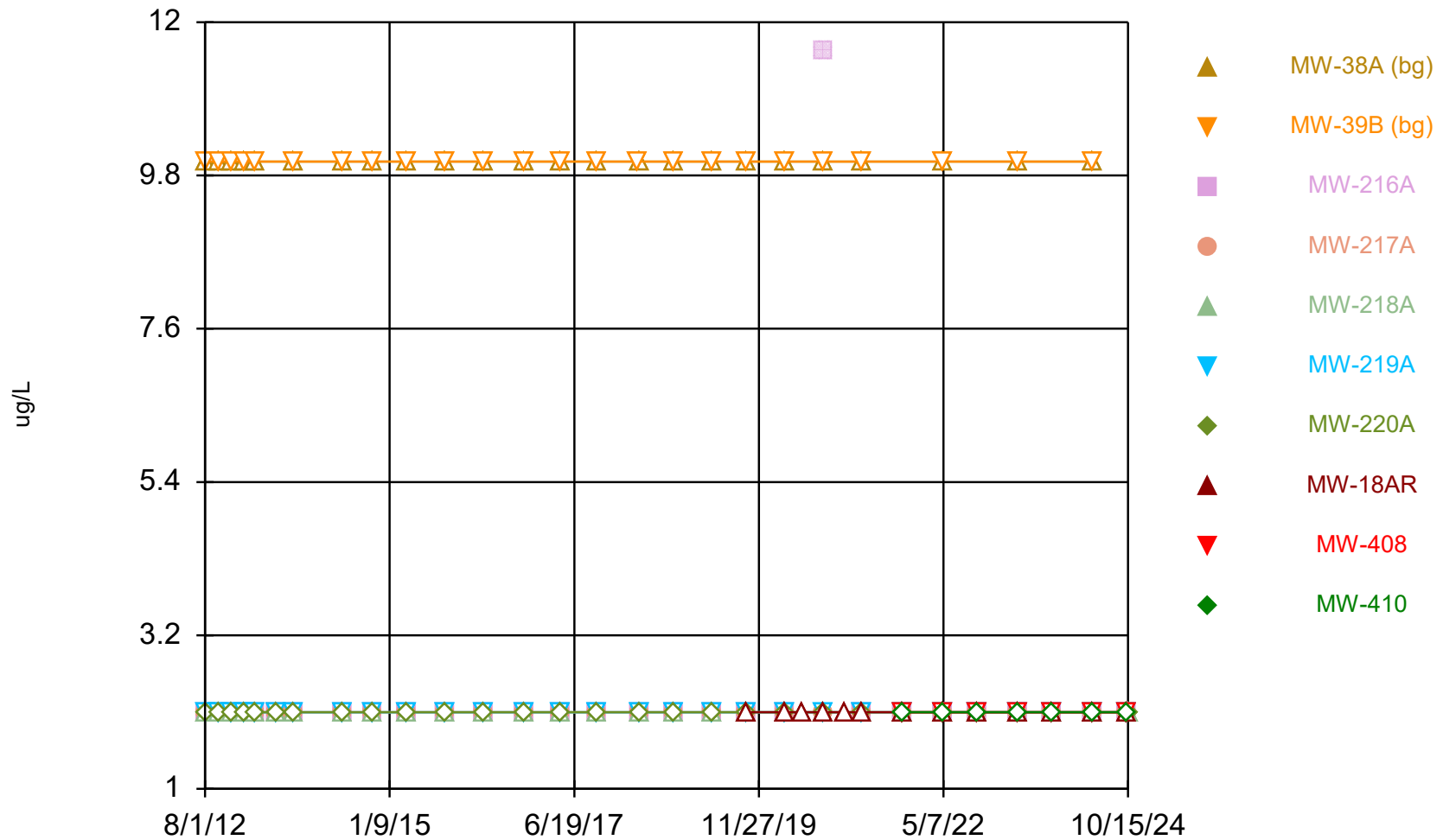
Time Series



Constituent: 2-Butanone [MEK] Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

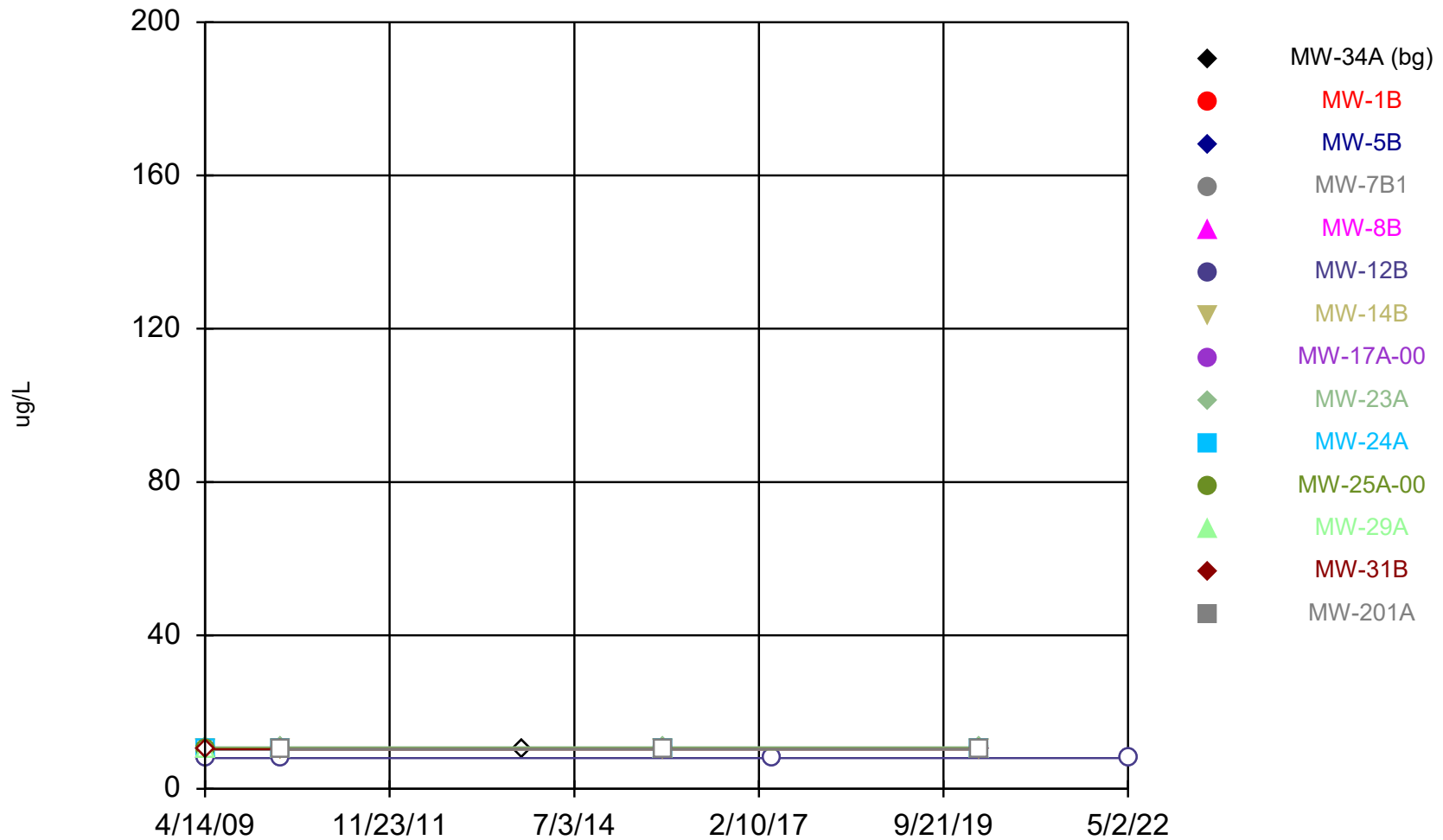
Time Series



Constituent: 2-Butanone [MEK] Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

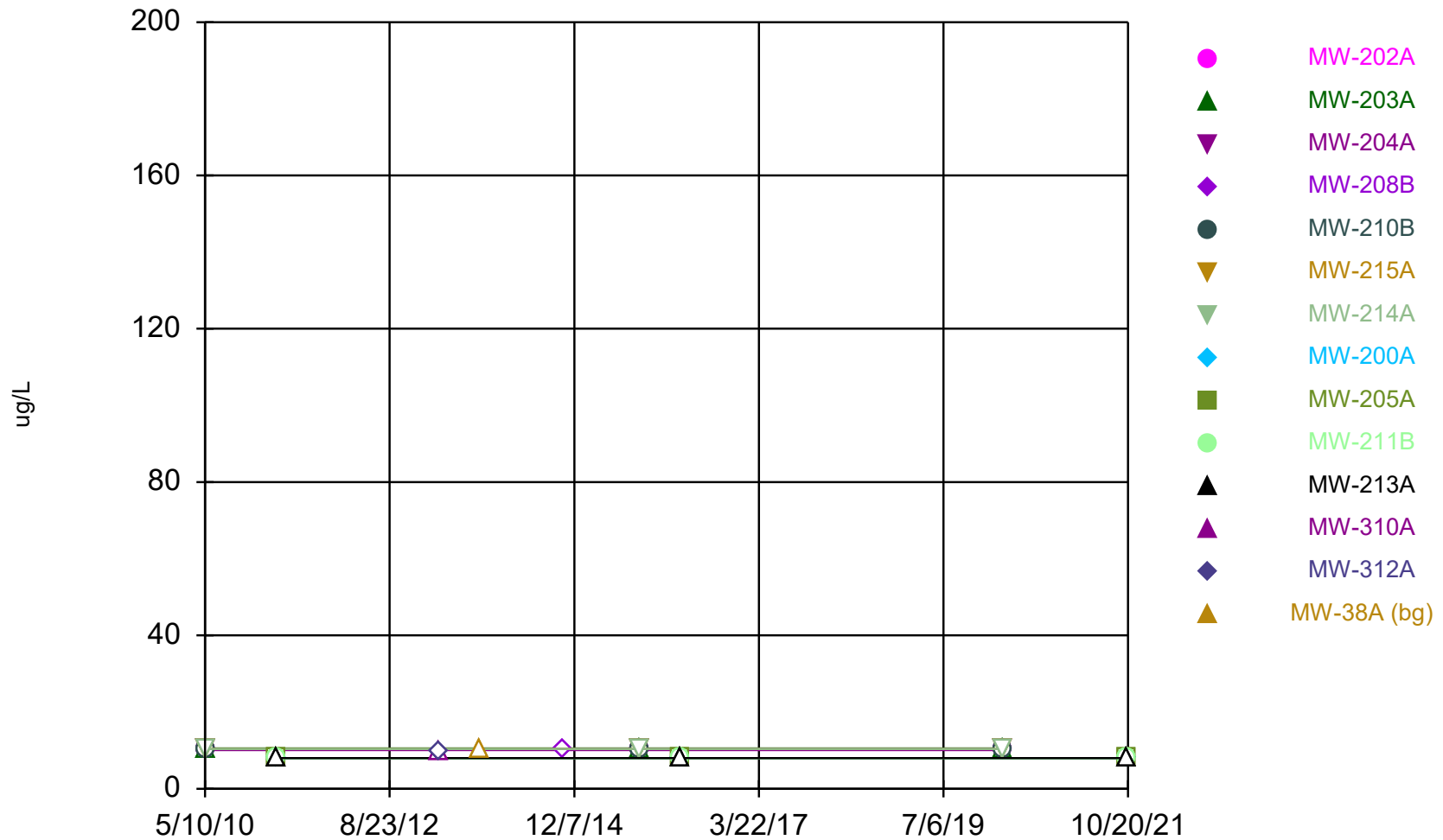
Time Series



Constituent: 2-Methylnaphthalene Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

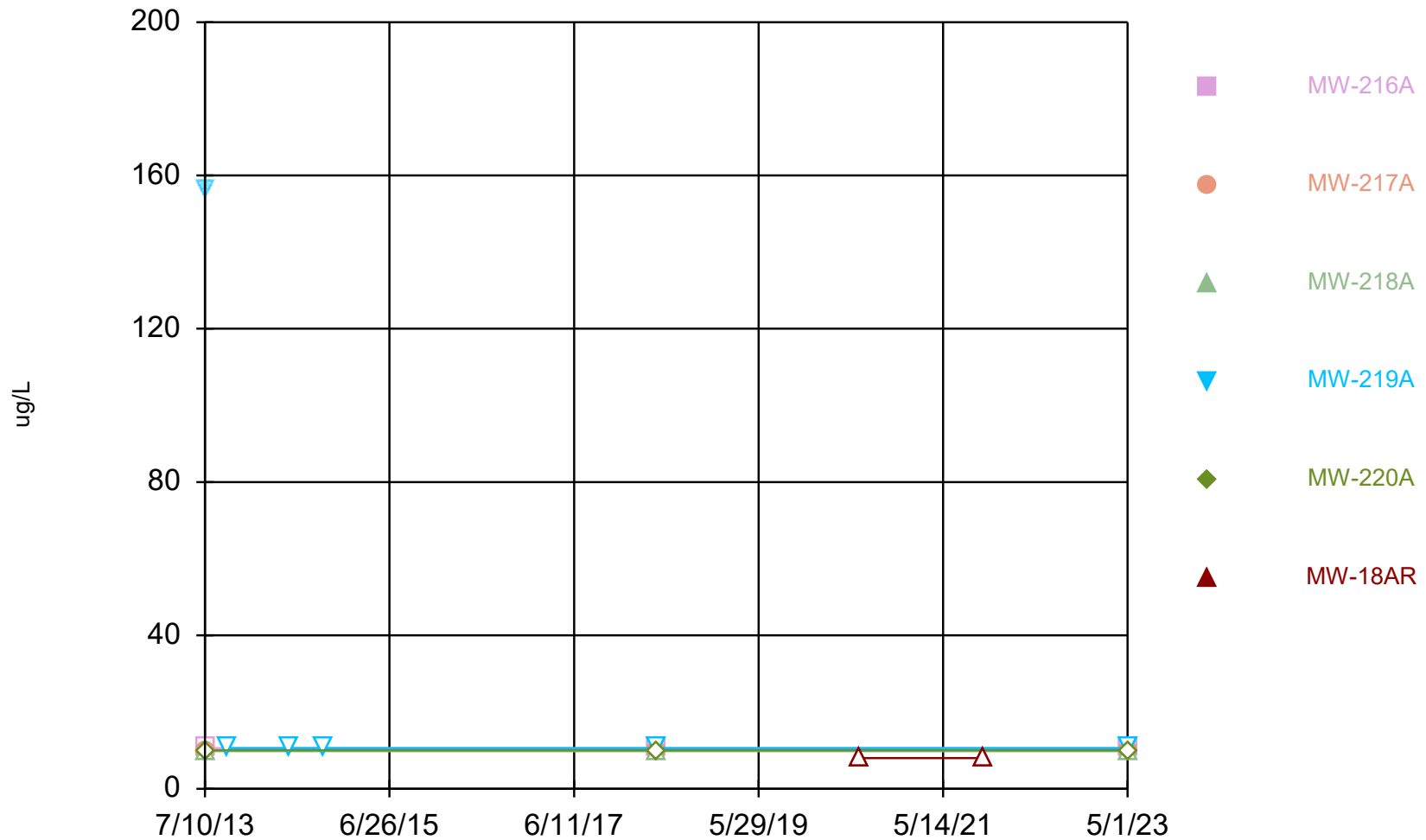
Time Series



Constituent: 2-Methylnaphthalene Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

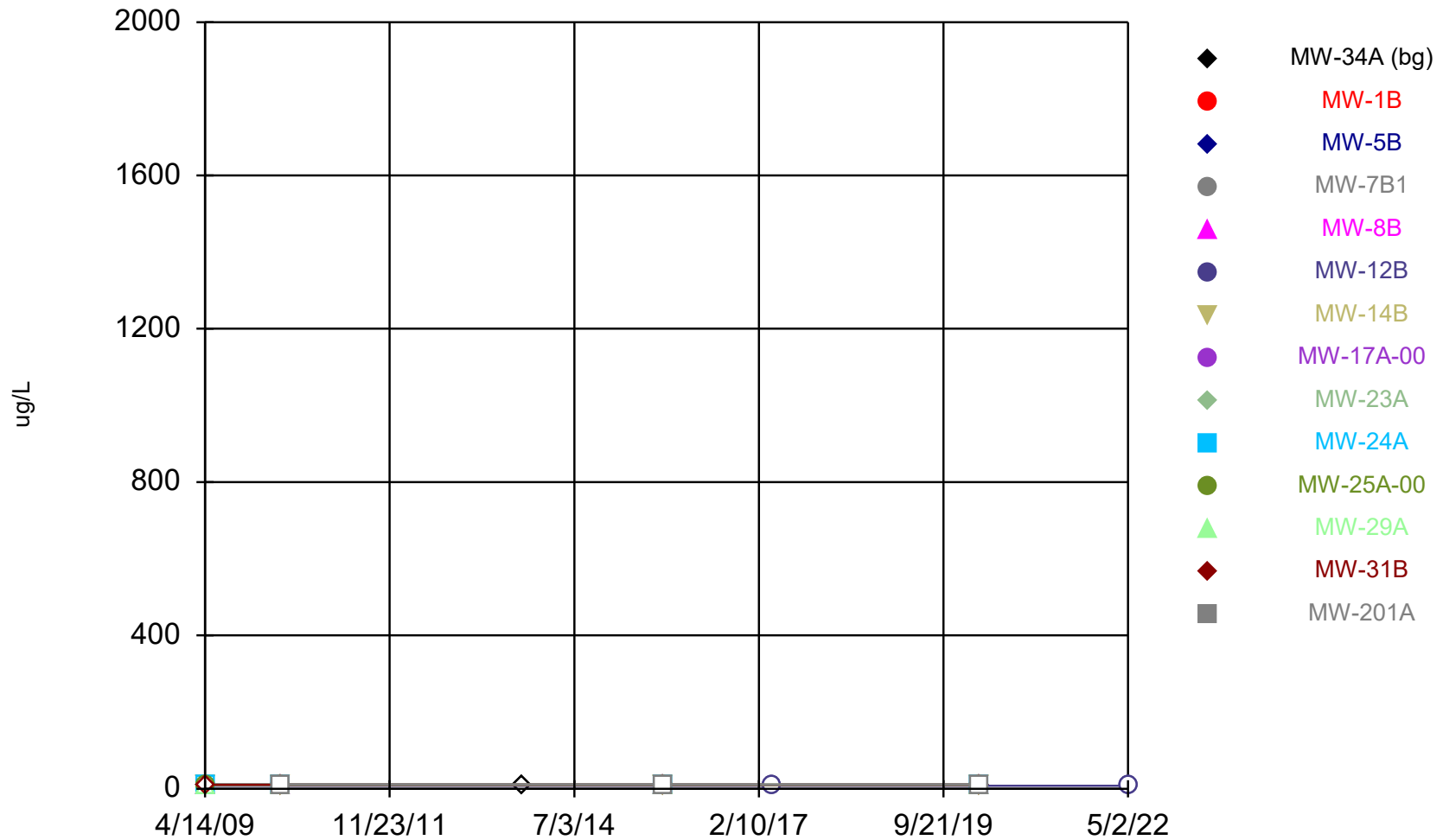
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: 2-Methylnaphthalene Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

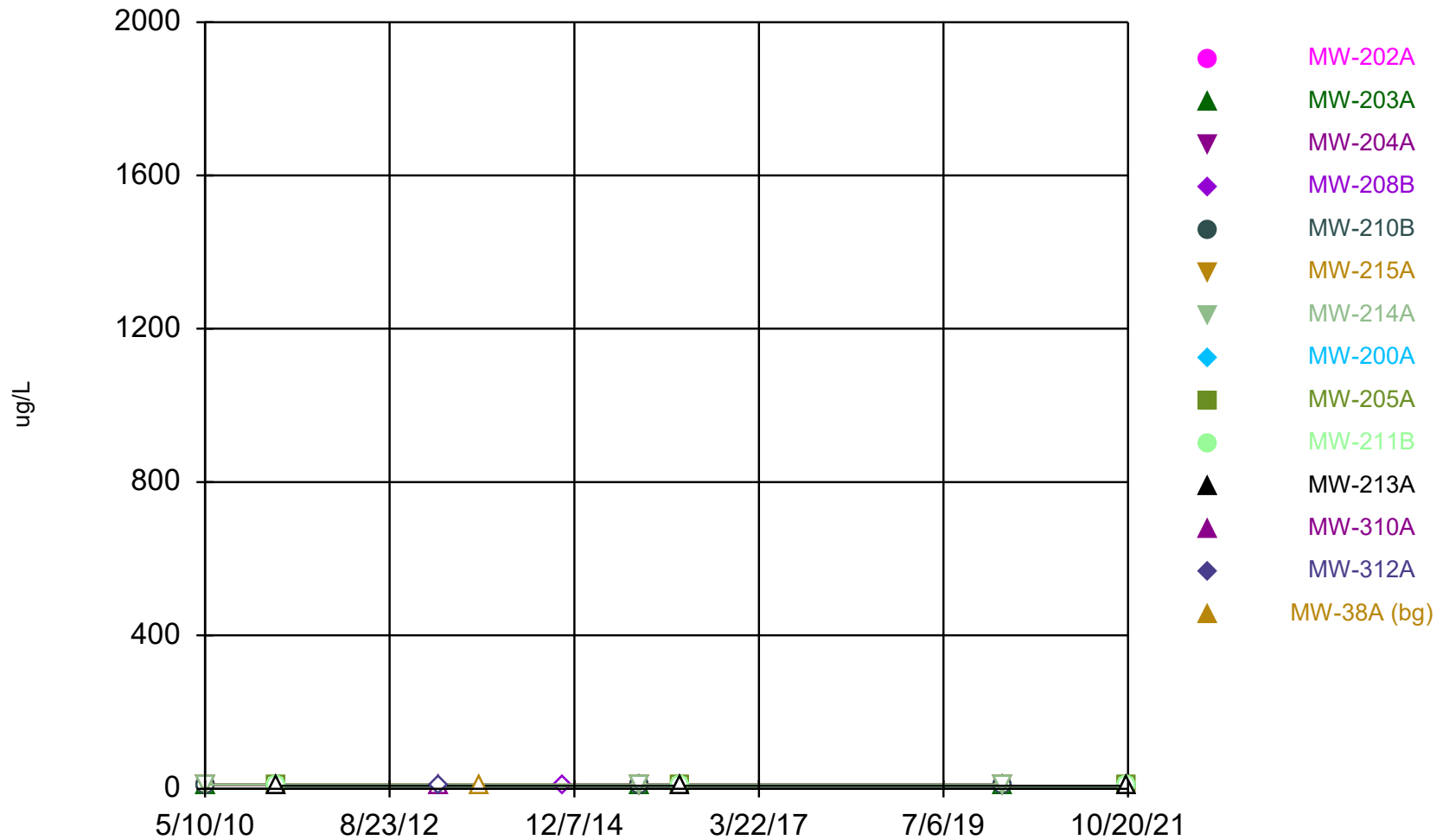
Time Series



Constituent: 2-Methylphenol Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

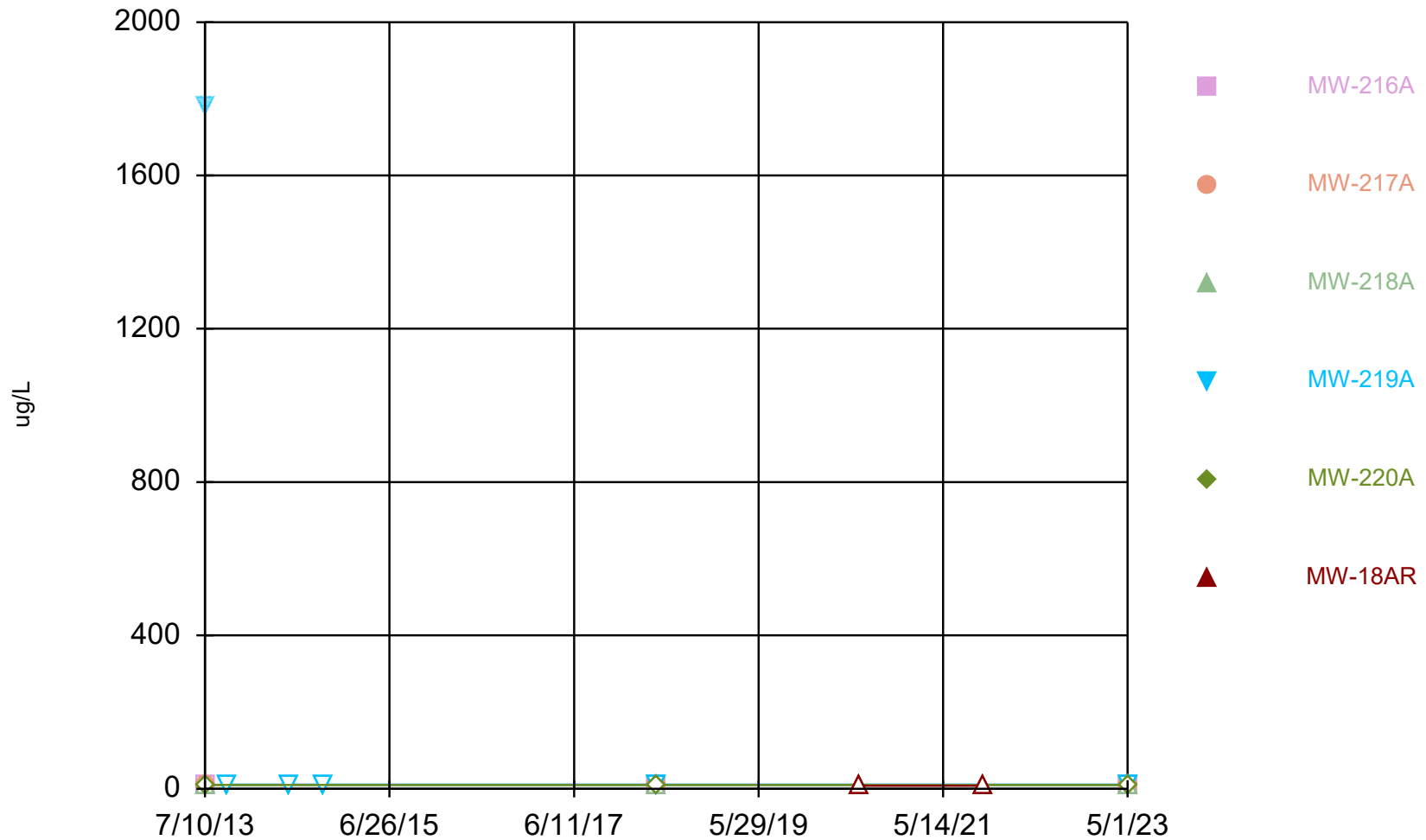
Time Series



Constituent: 2-Methylphenol Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

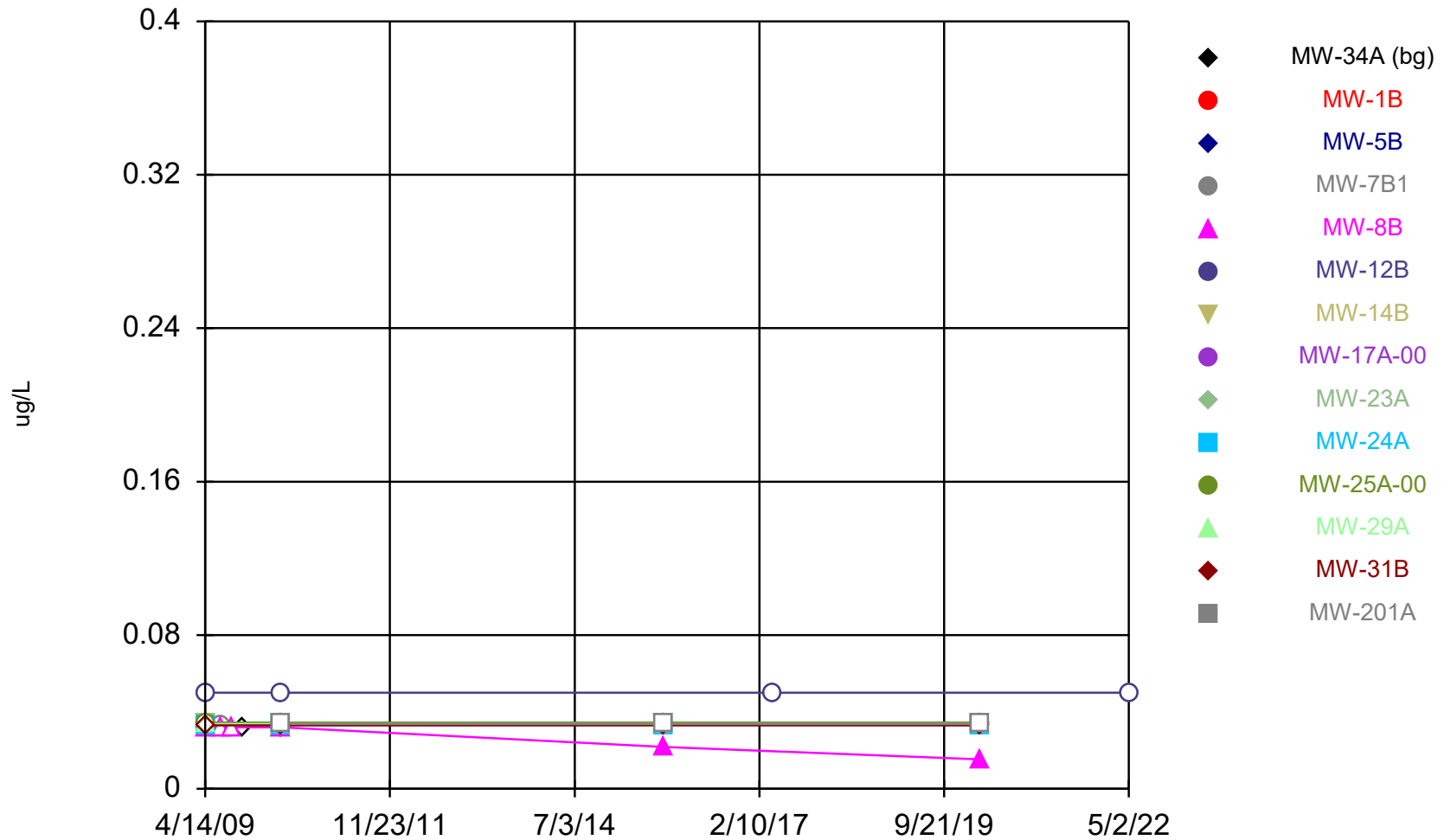
Time Series



Constituent: 2-Methylphenol Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

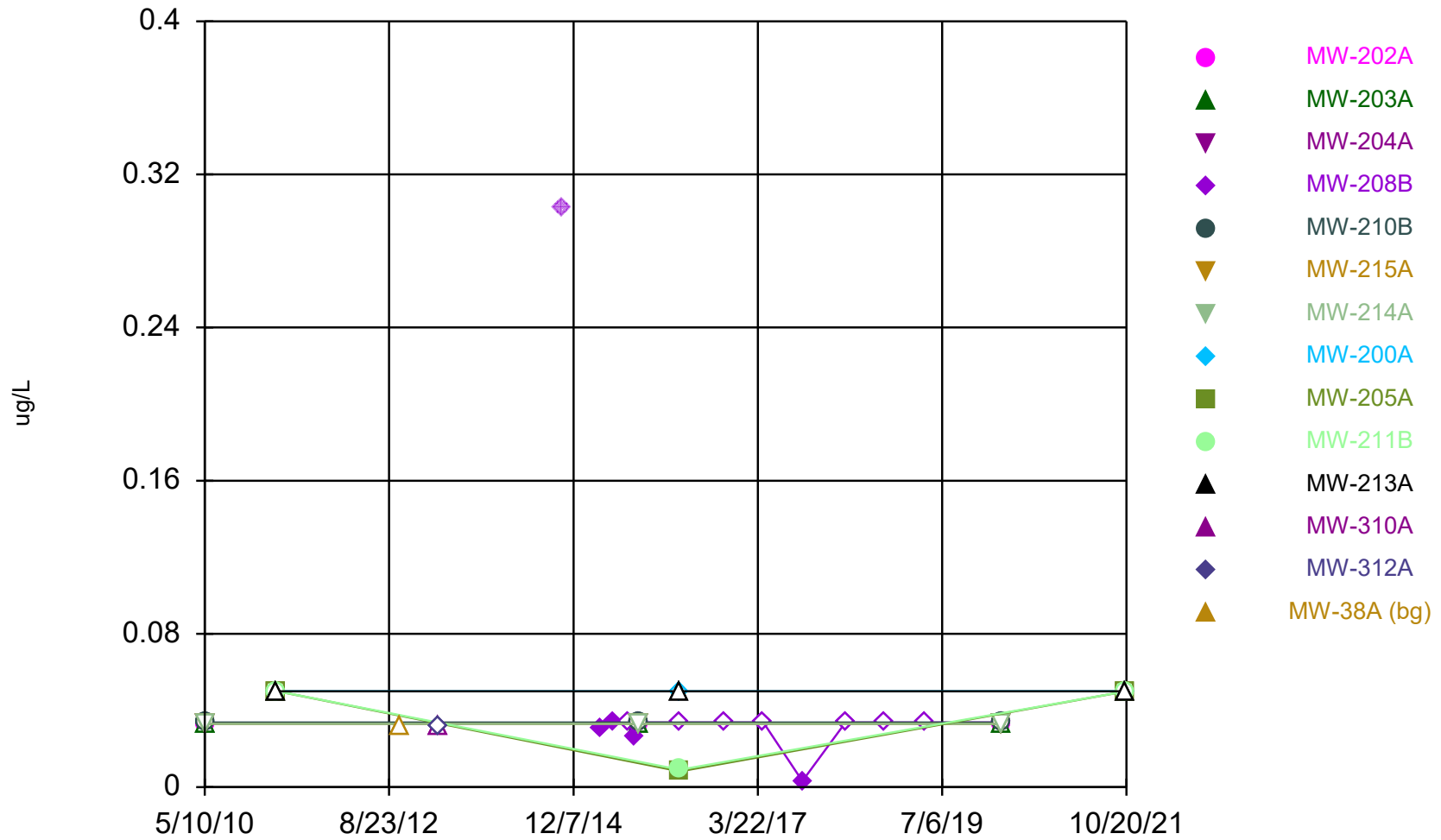
Time Series



Constituent: 4,4'-DDD Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

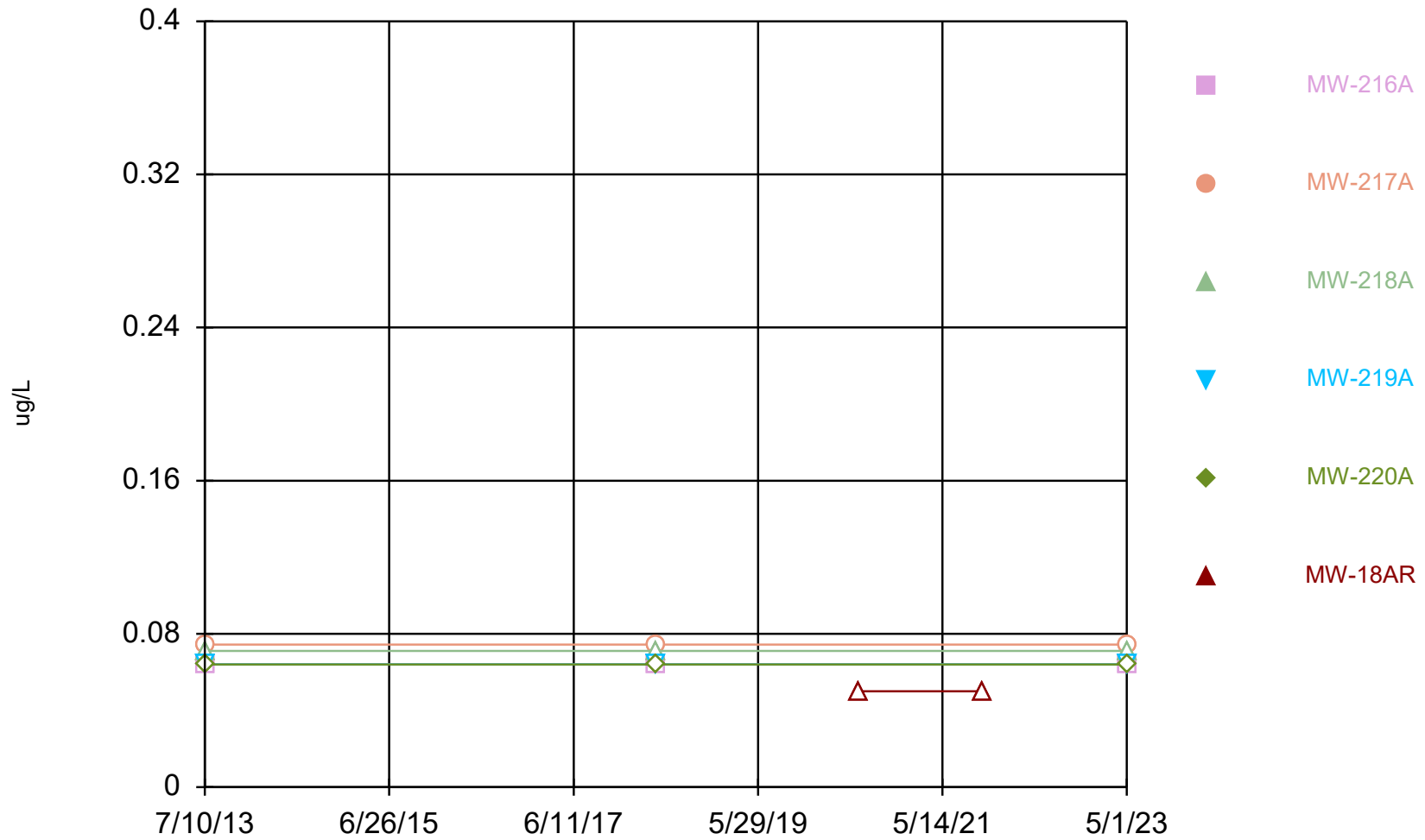
Time Series



Constituent: 4,4'-DDD Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

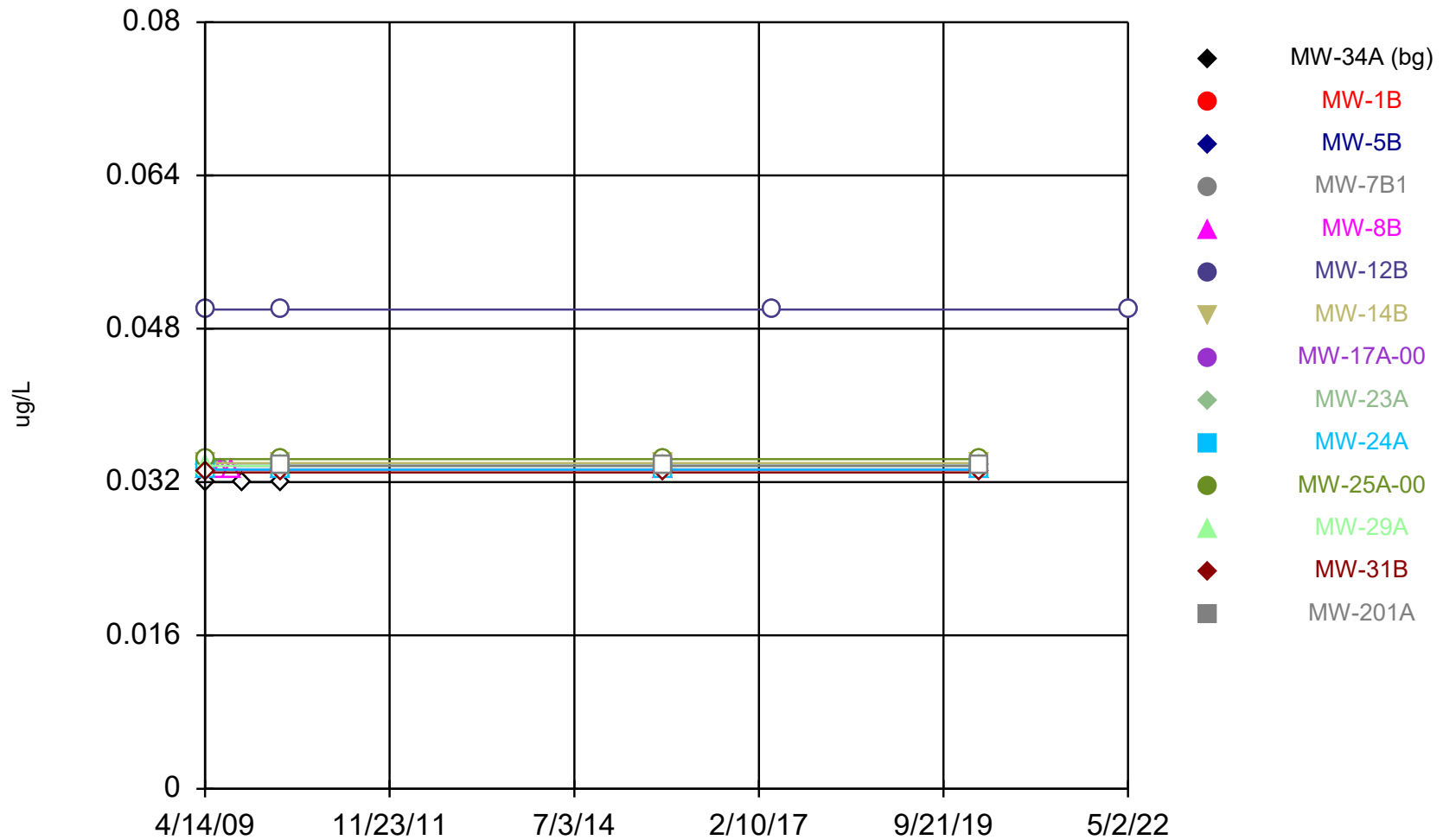
Time Series



Constituent: 4,4'-DDD Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

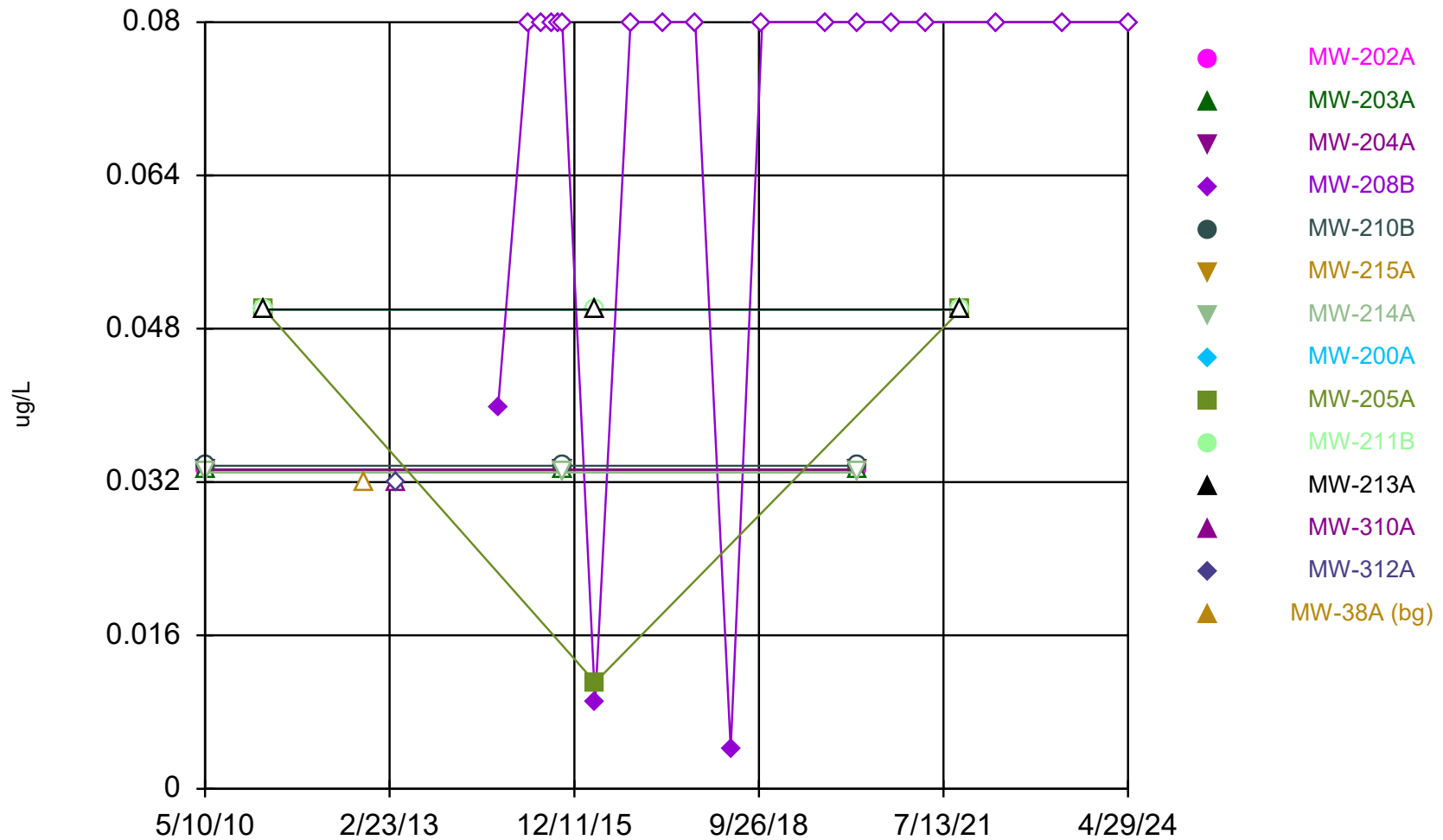
Time Series



Constituent: 4,4'-DDT Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

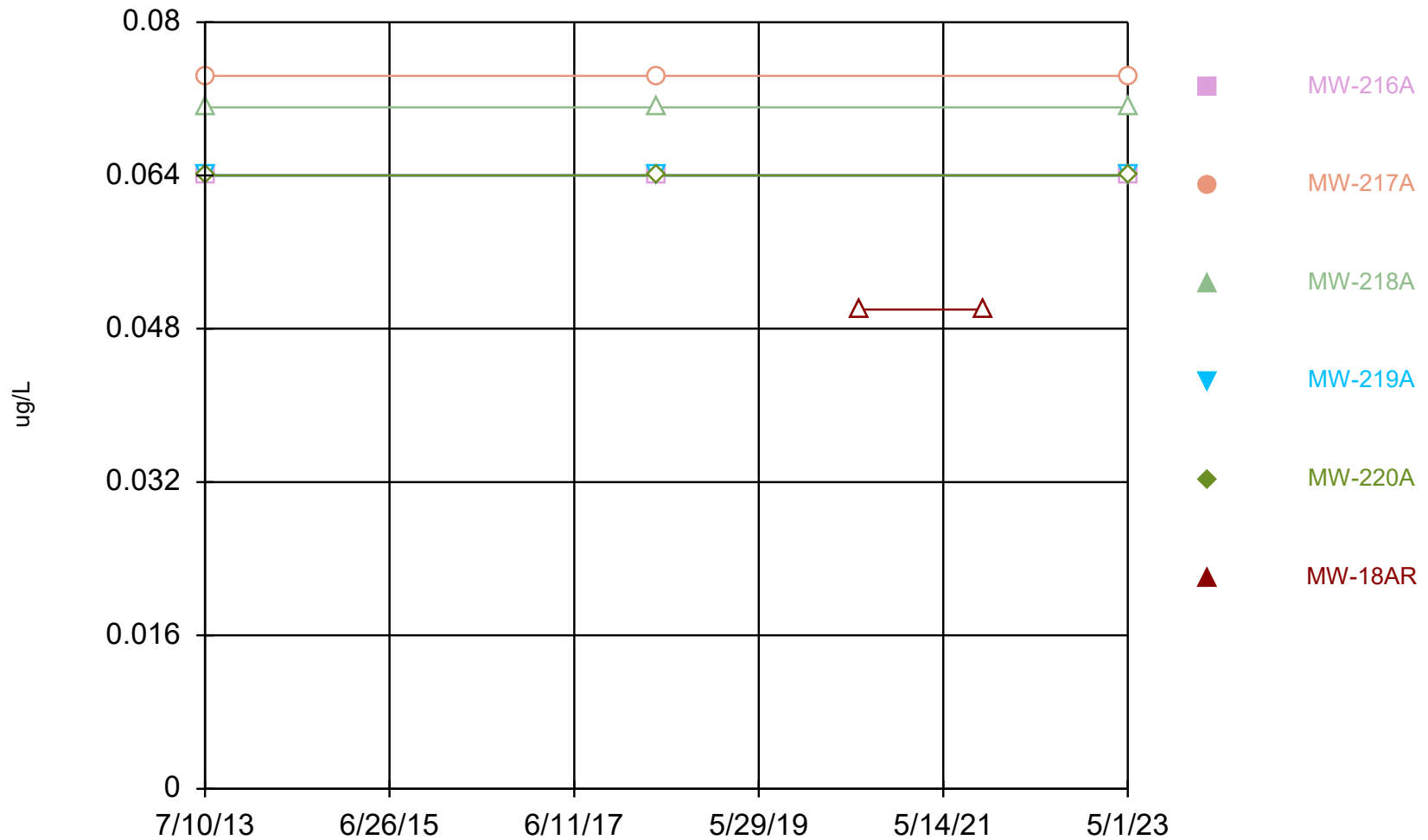
Time Series



Constituent: 4,4'-DDT Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

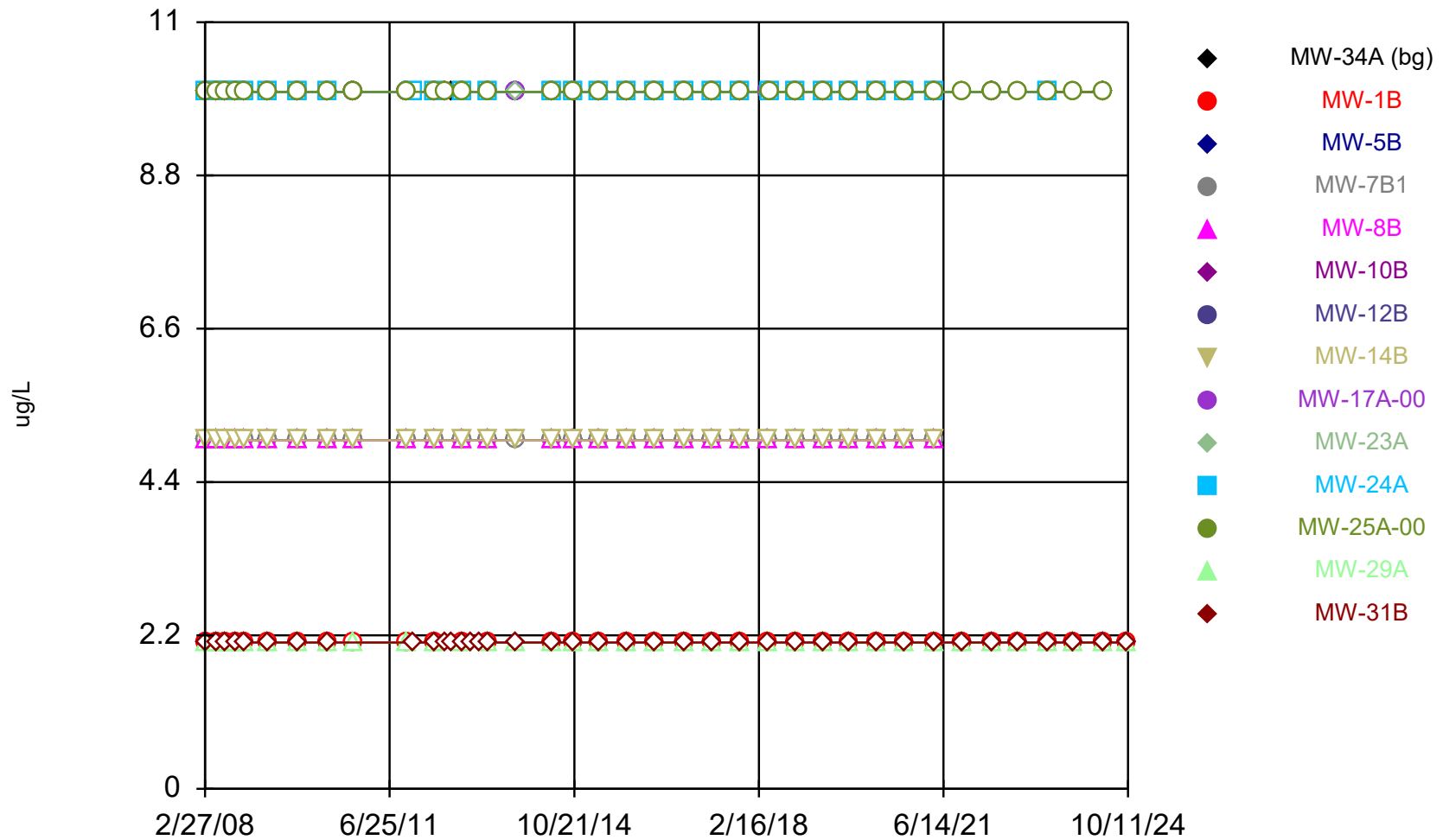
Time Series



Constituent: 4,4'-DDT Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

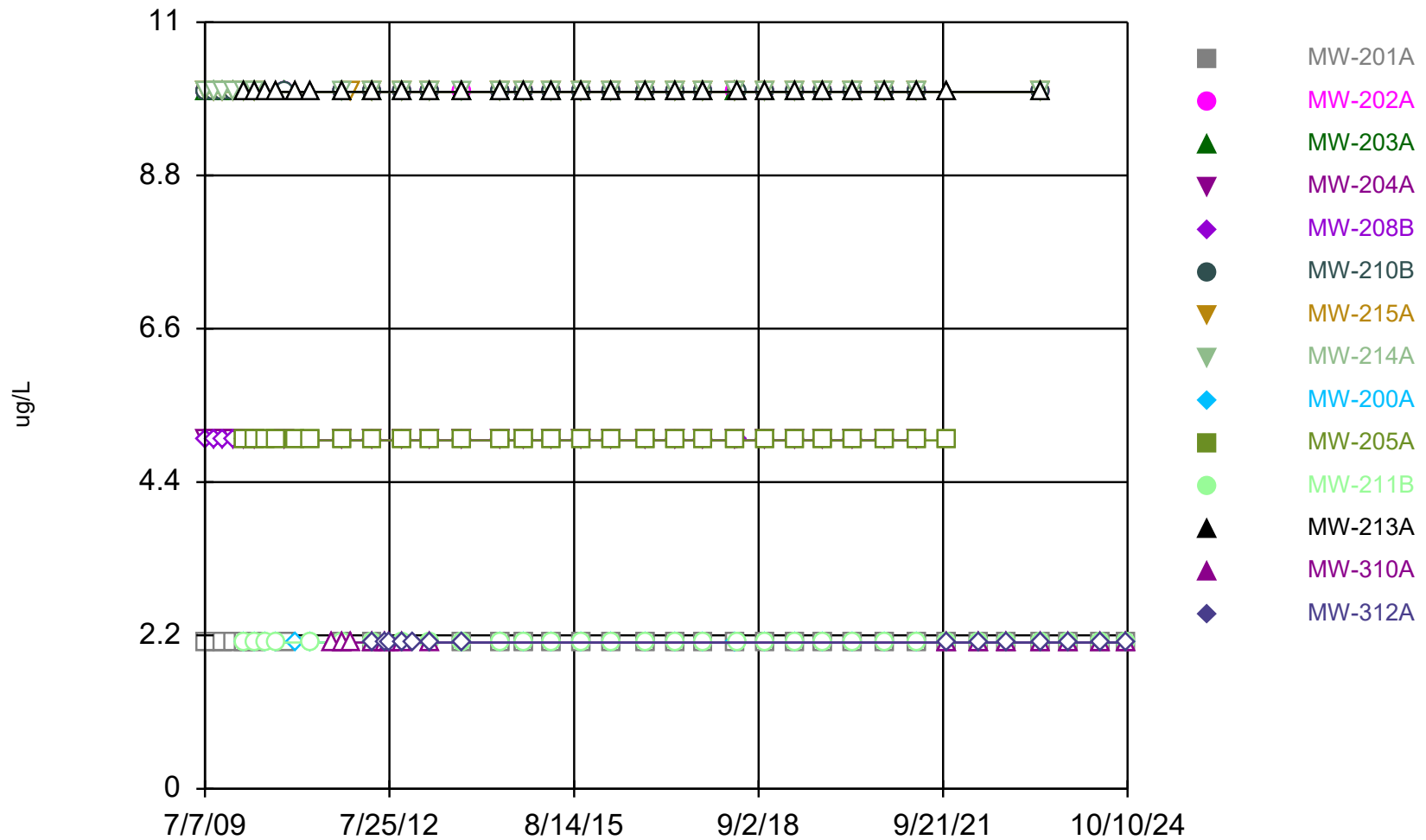
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



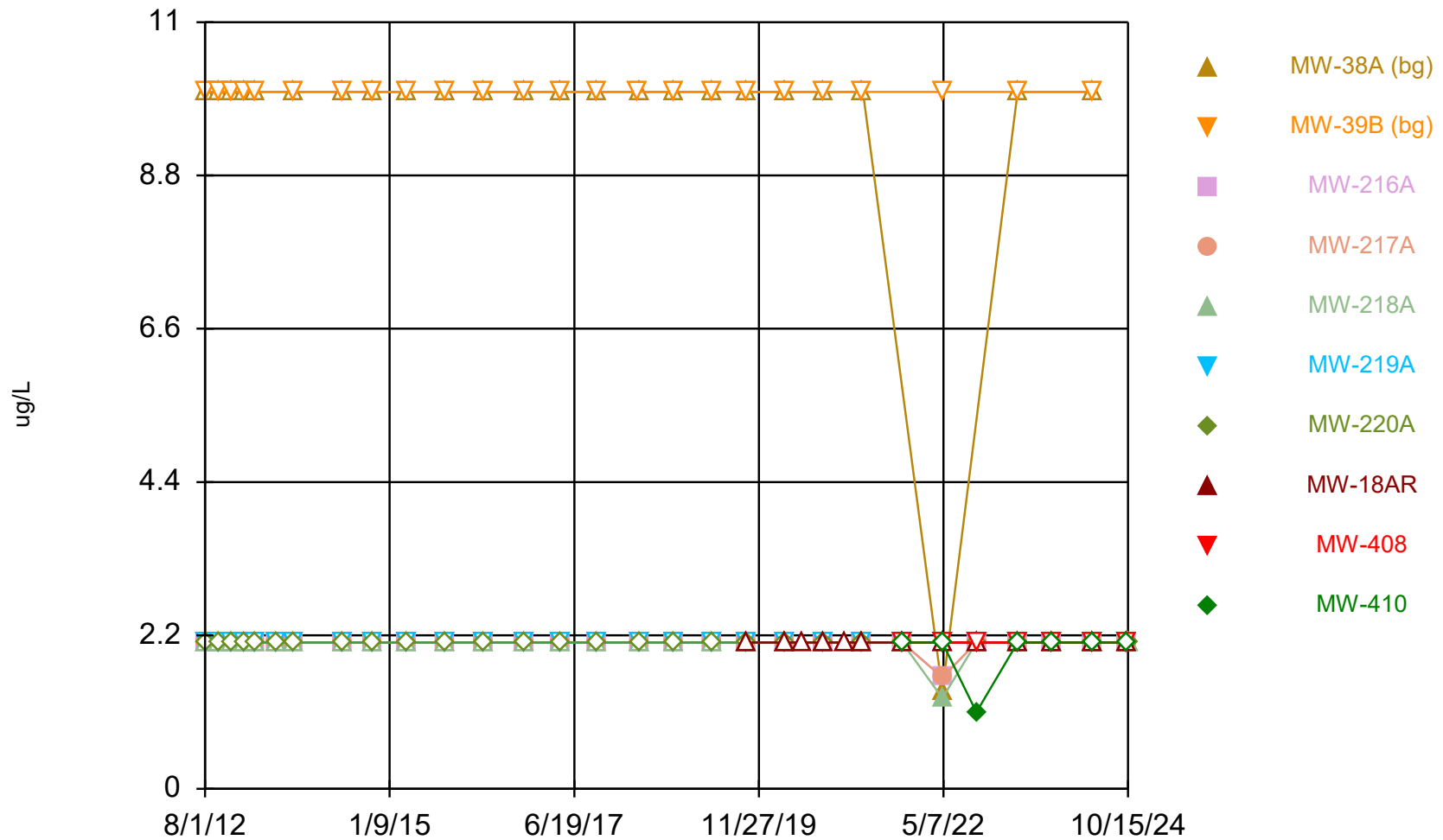
Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



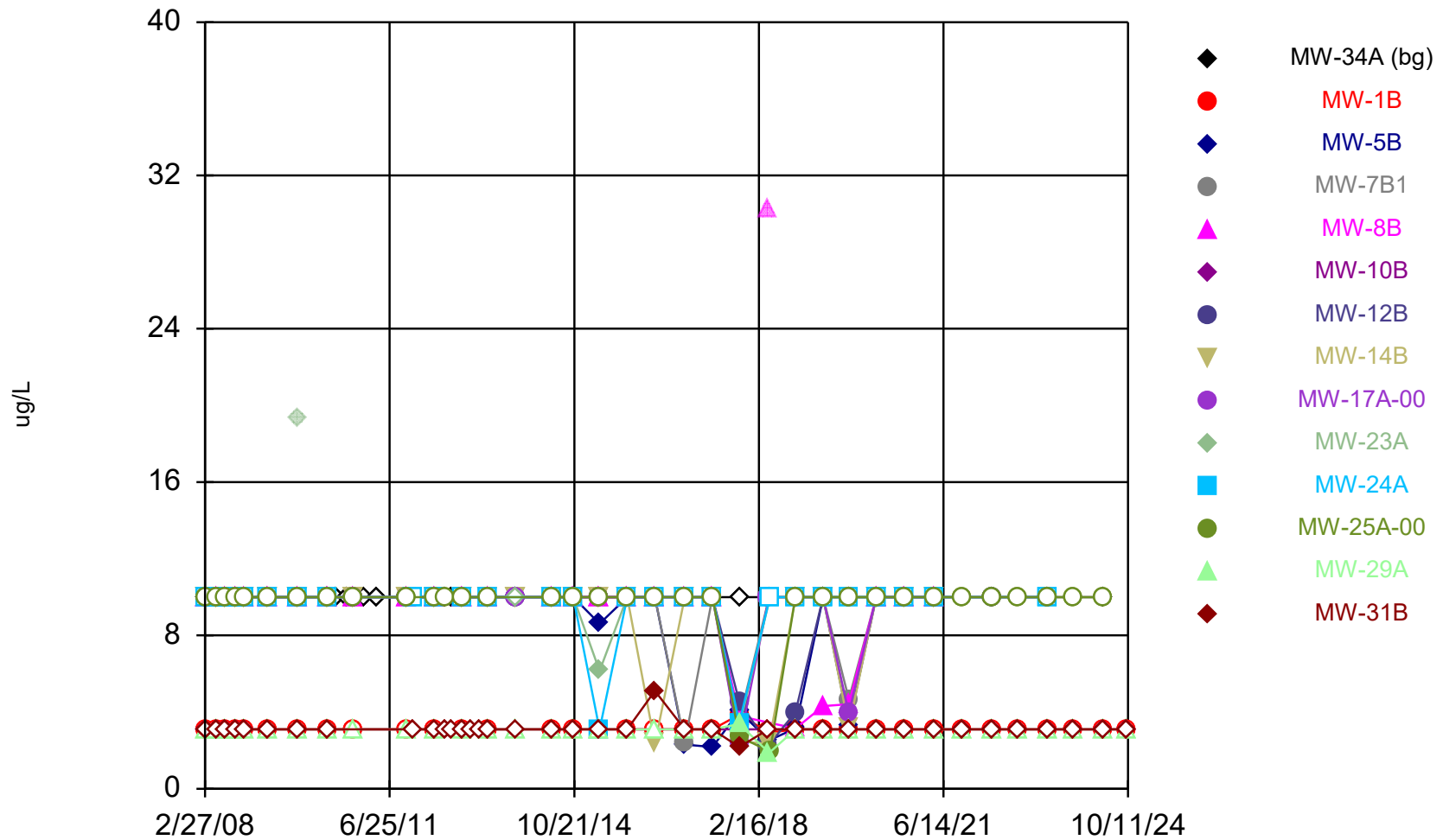
Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

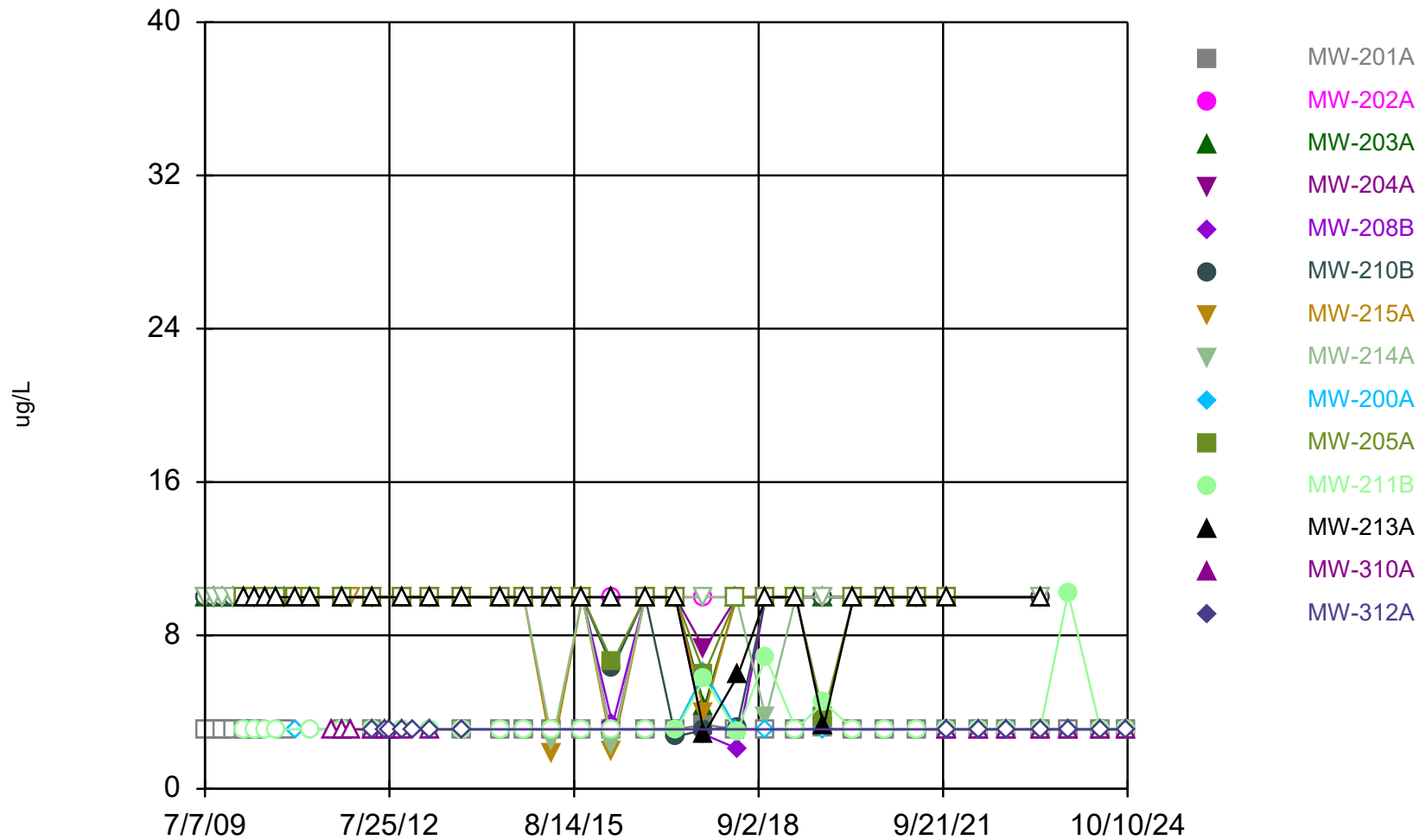
Time Series



Constituent: Acetone Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

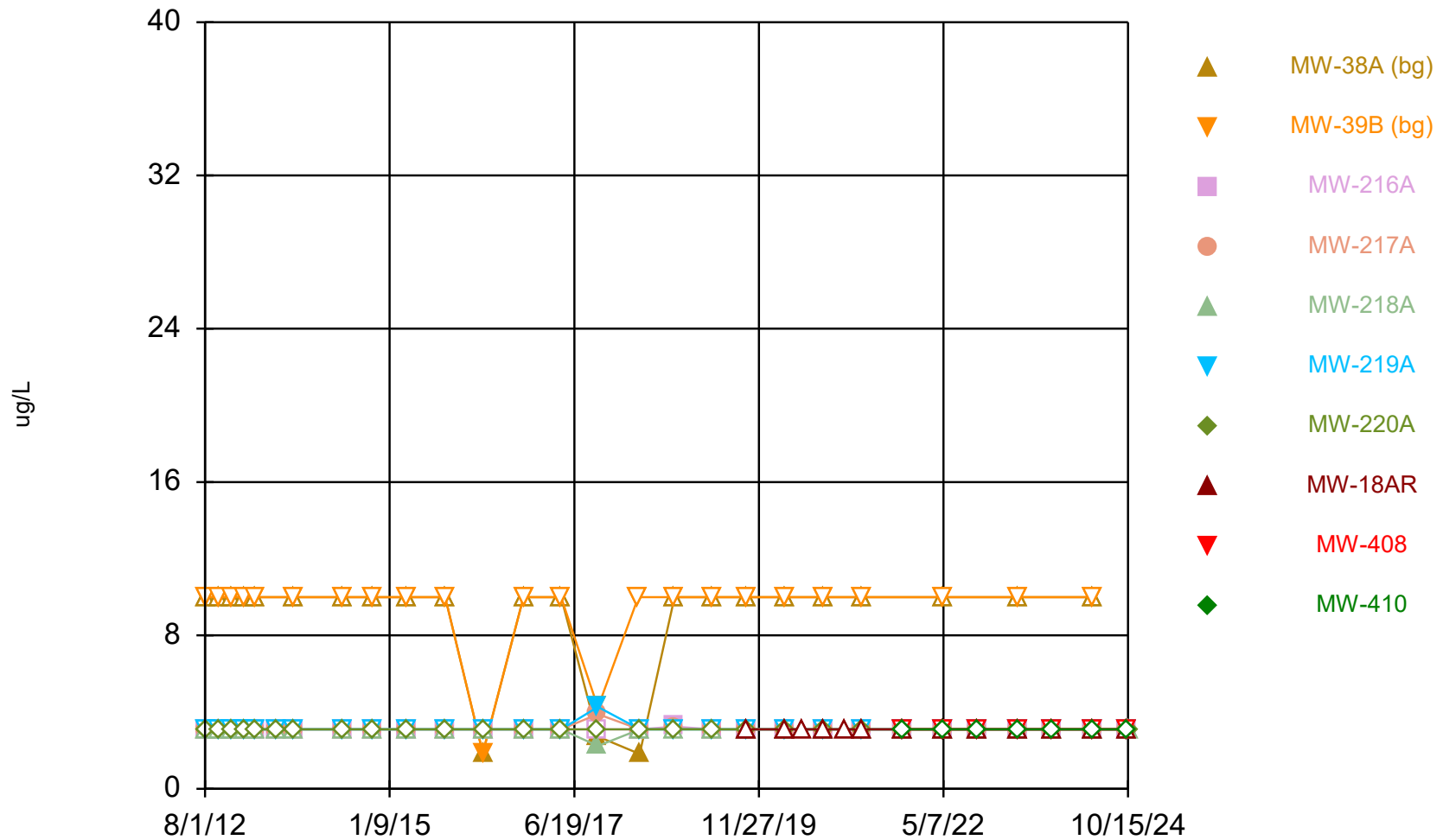
Time Series



Constituent: Acetone Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

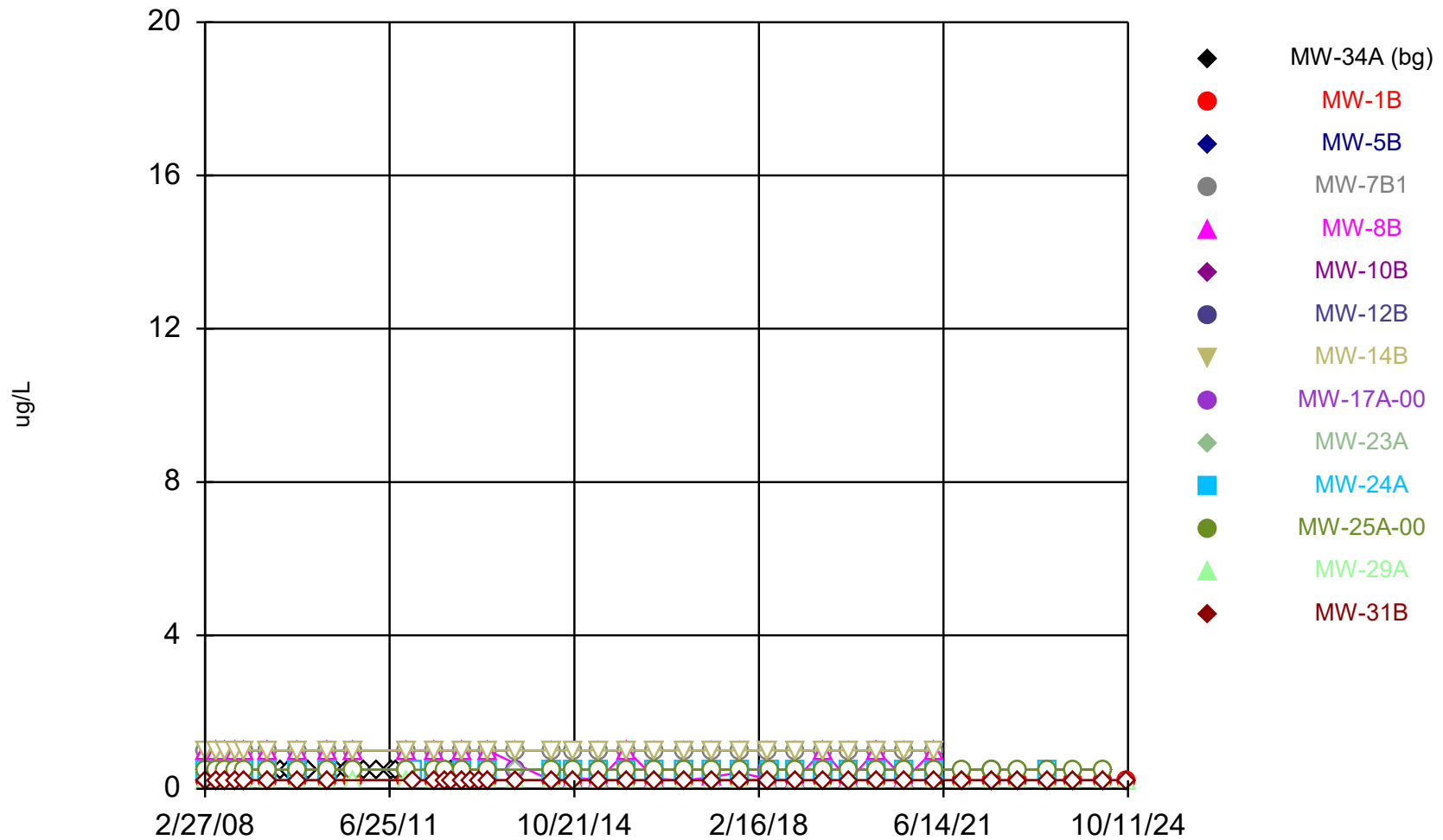
Time Series



Constituent: Acetone Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

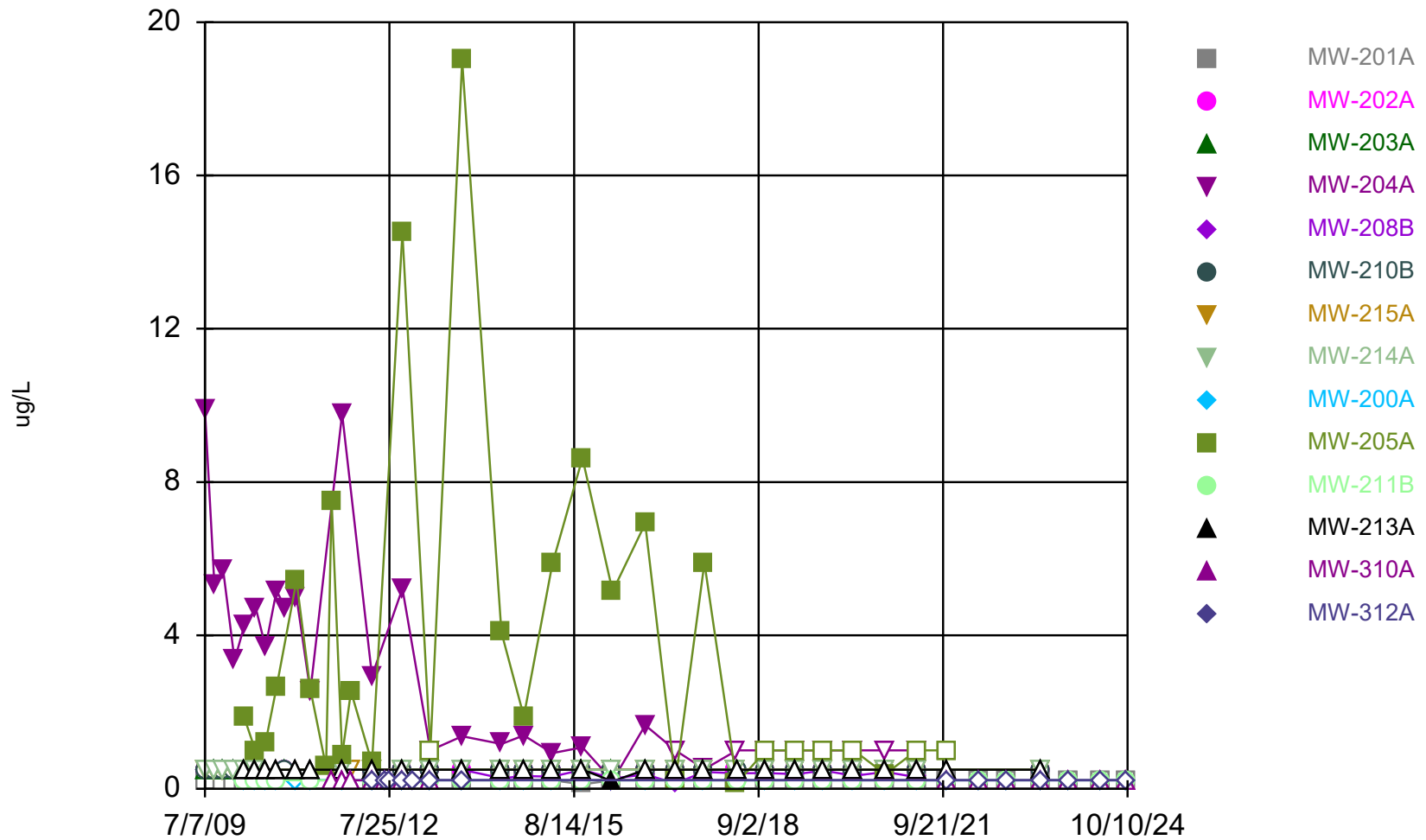
Time Series



Constituent: Benzene Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

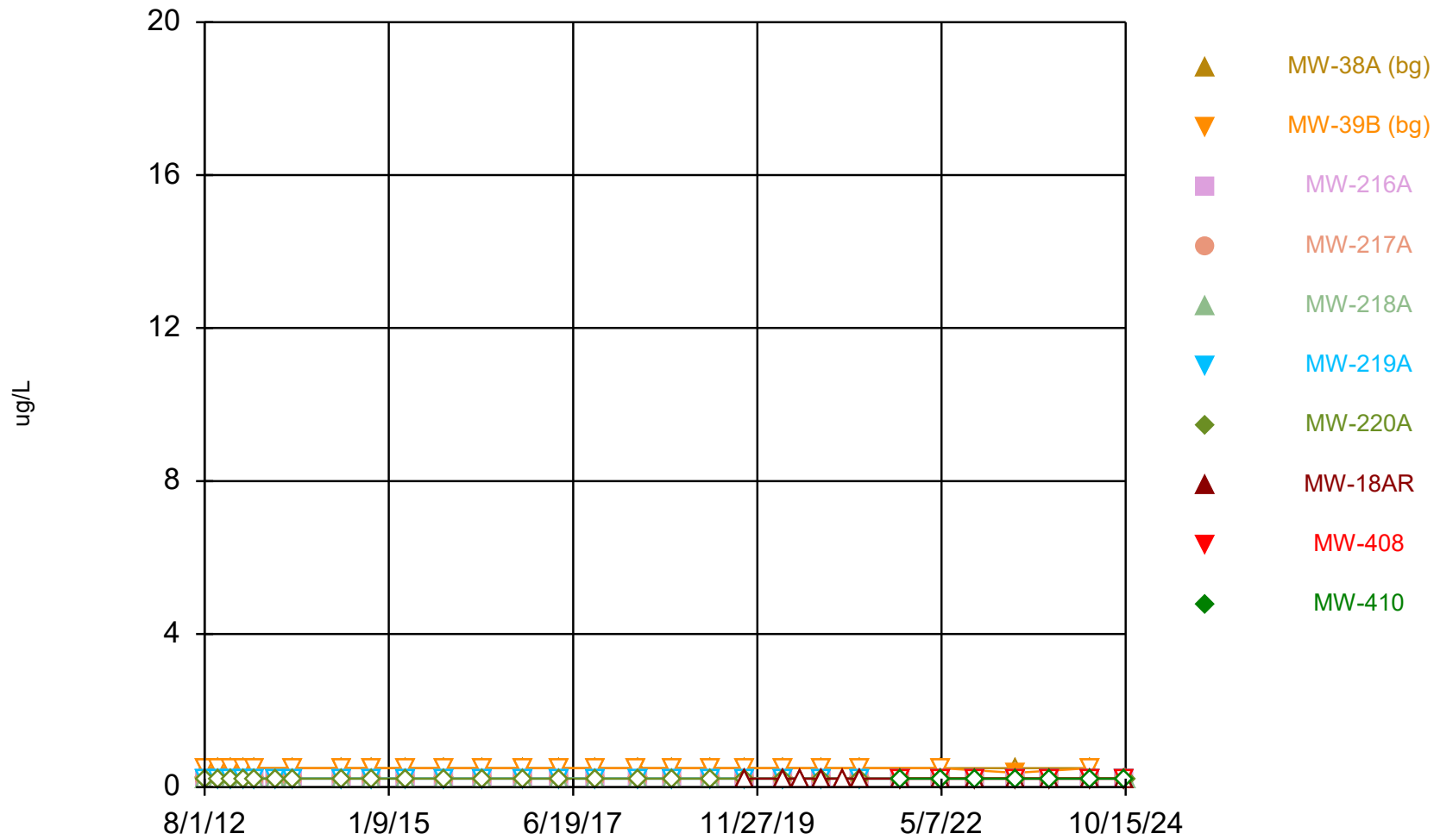
Time Series



Constituent: Benzene Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

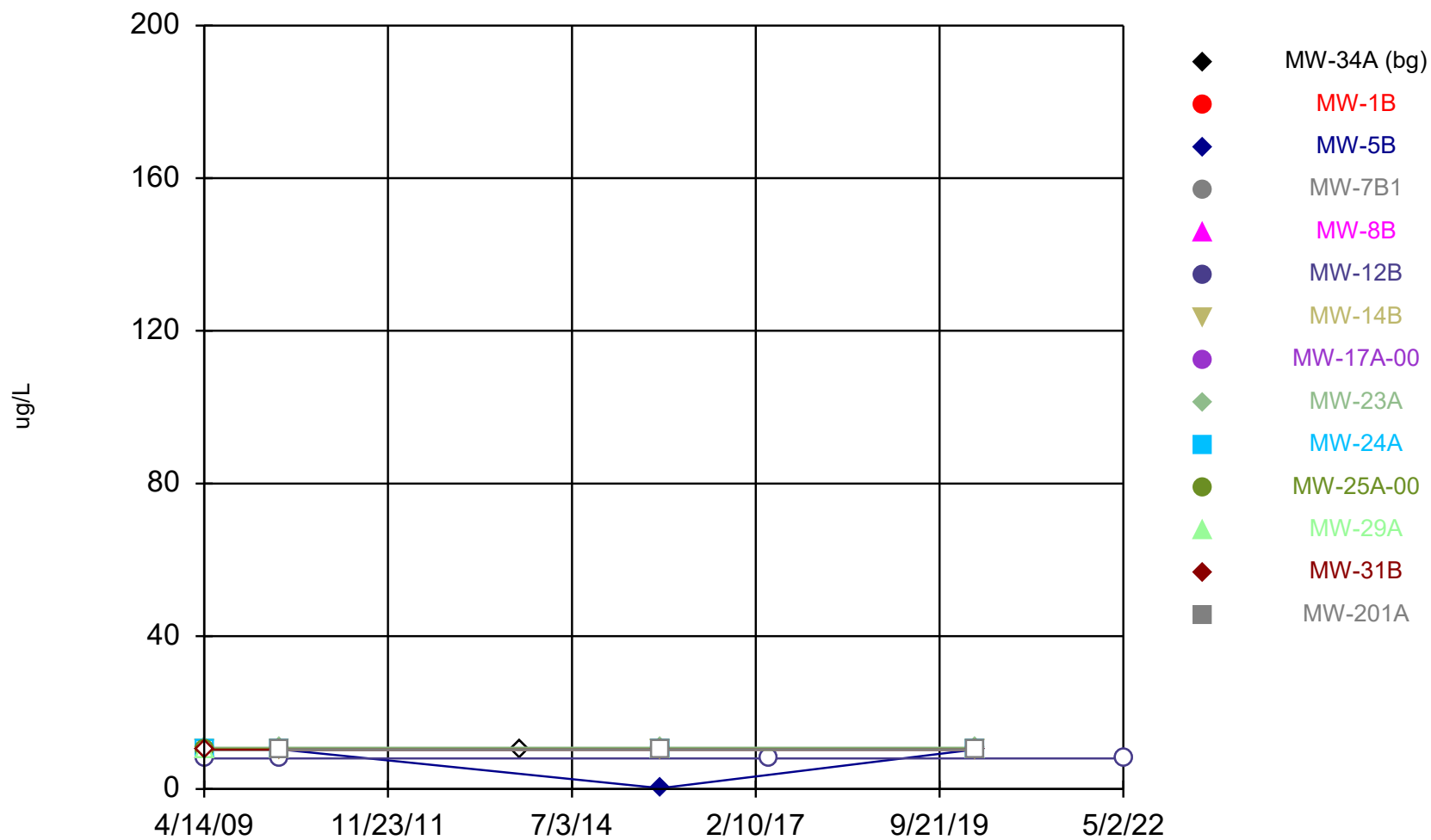
Time Series



Constituent: Benzene Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

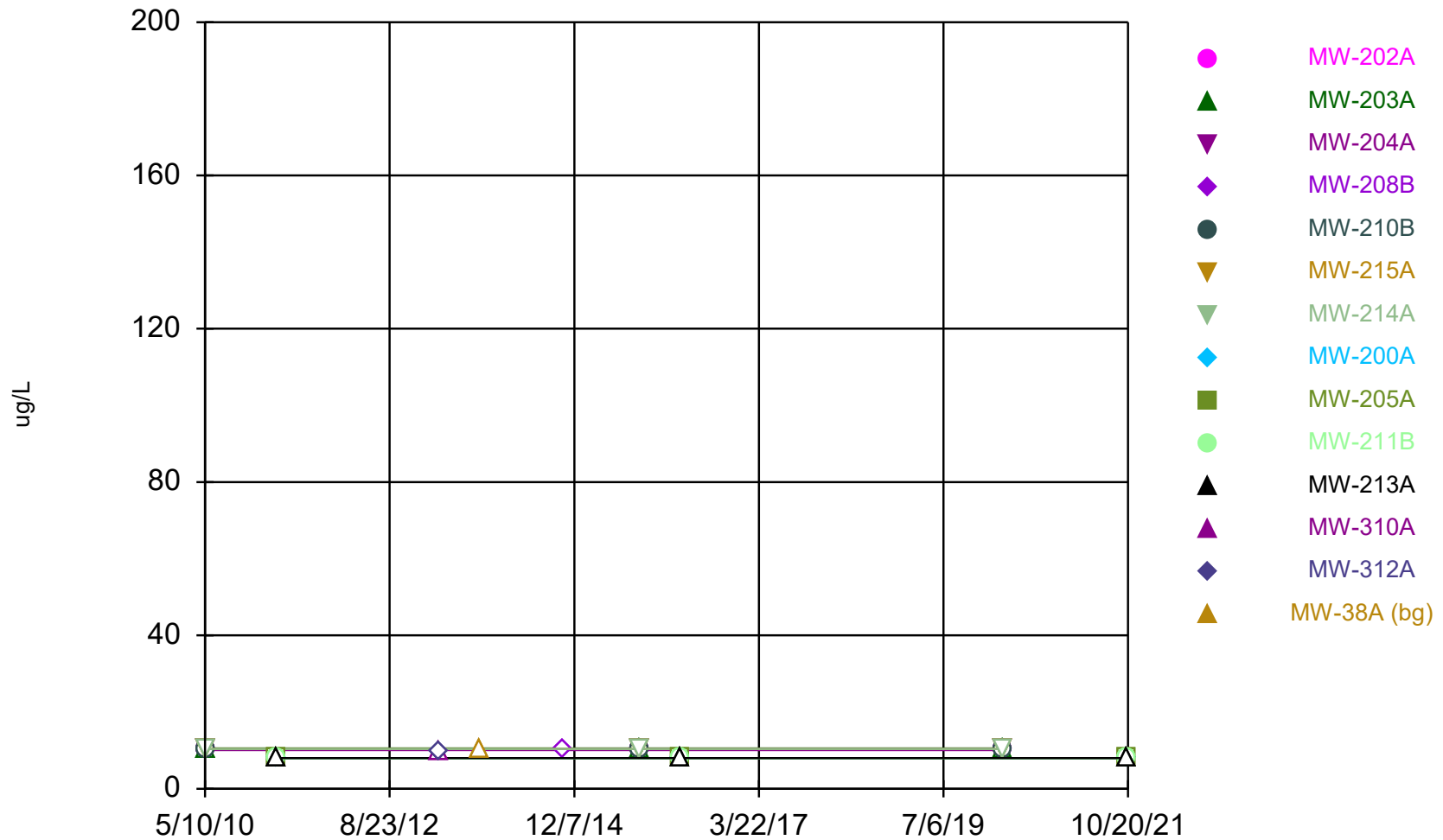
Time Series



Constituent: Benzyl alcohol Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

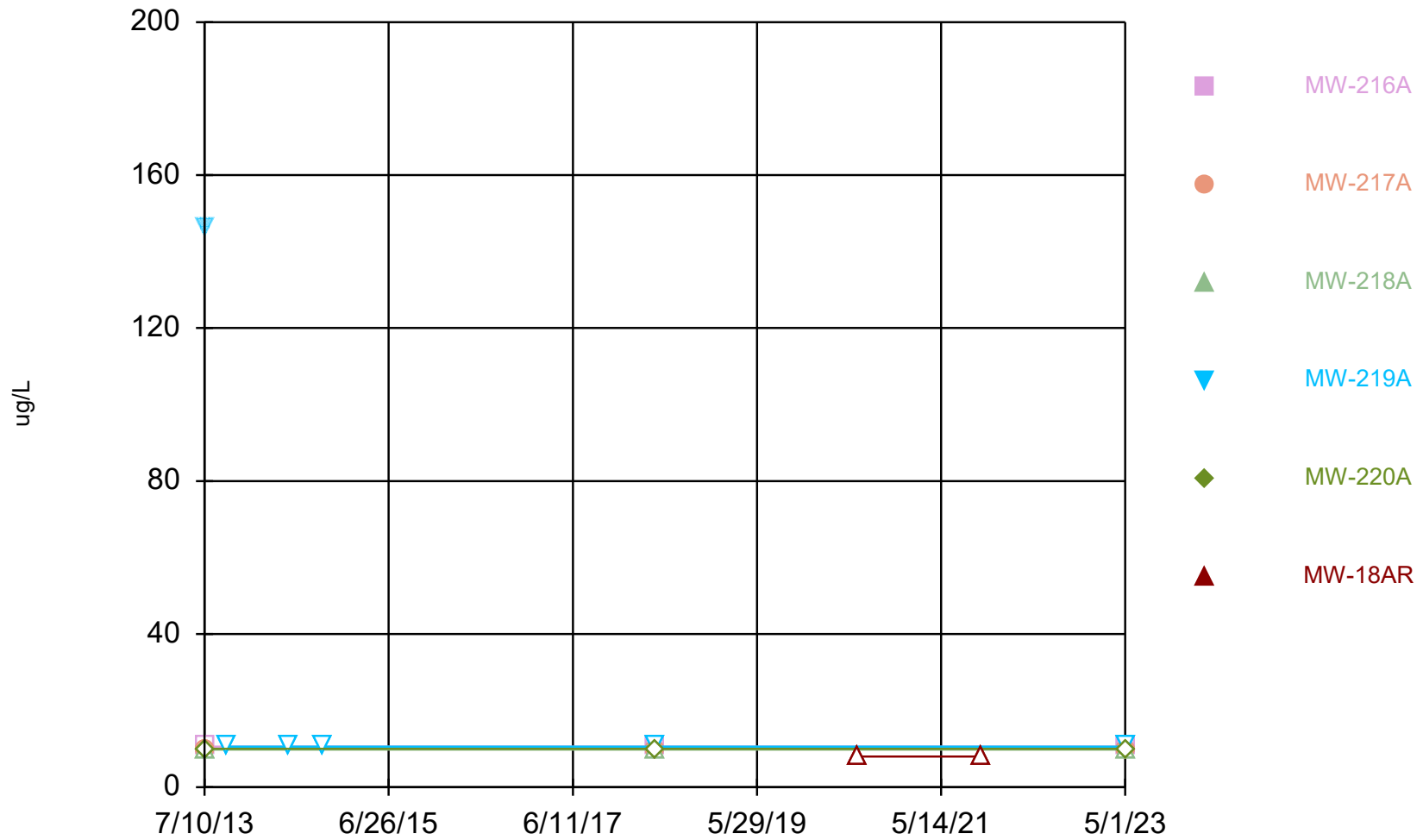
Time Series



Constituent: Benzyl alcohol Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

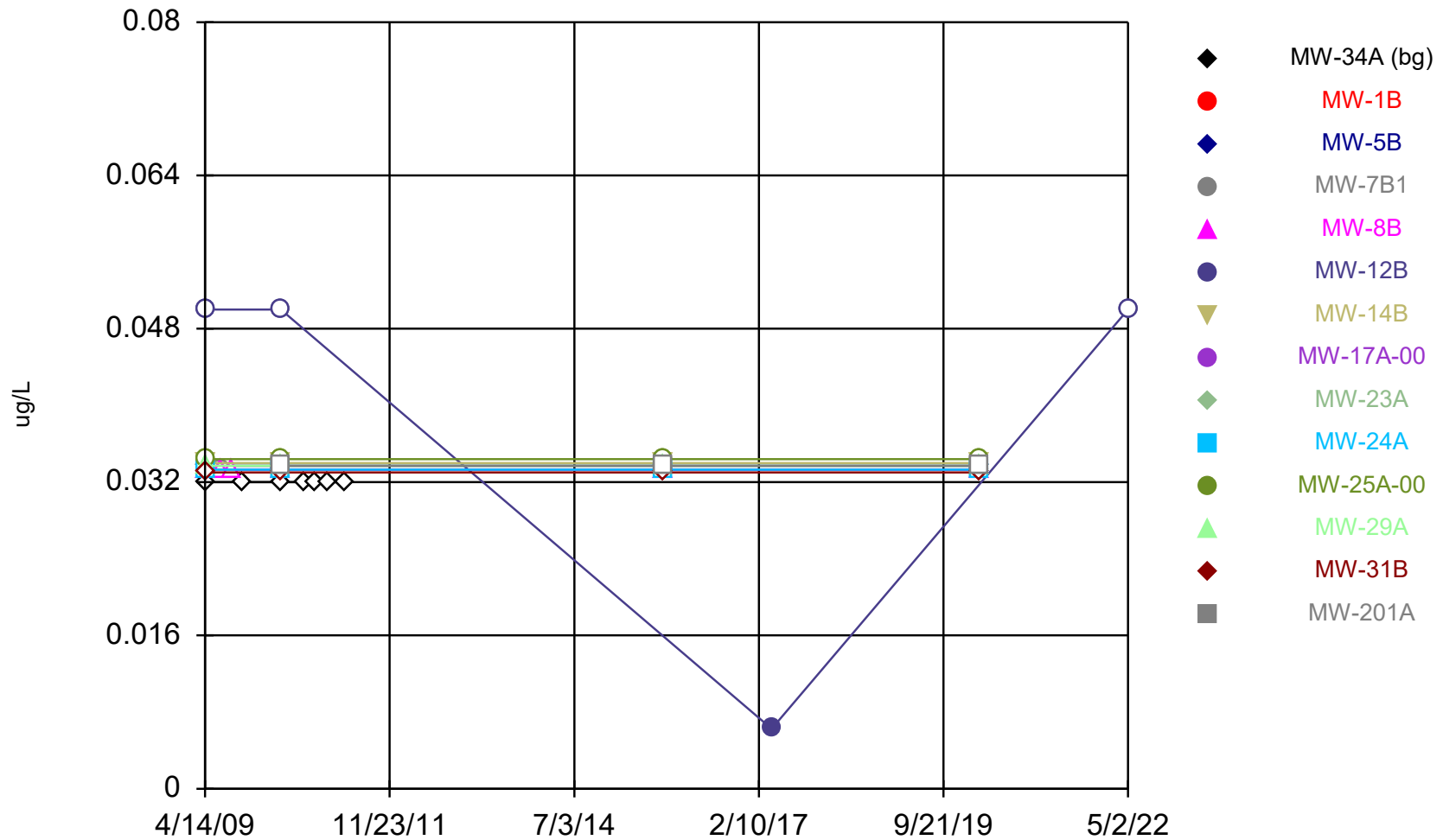
Time Series



Constituent: Benzyl alcohol Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

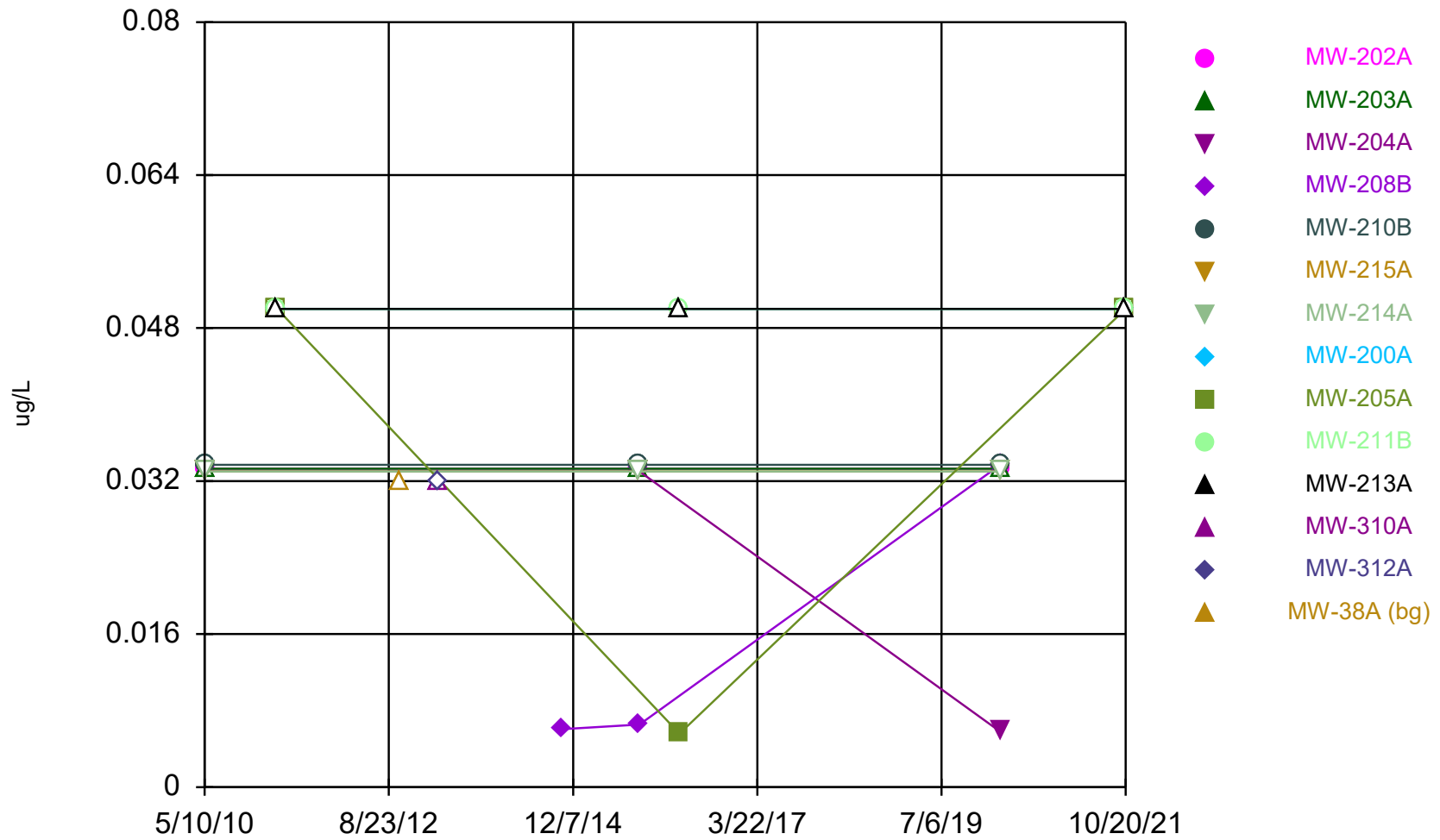
Time Series



Constituent: Beta-BHC Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

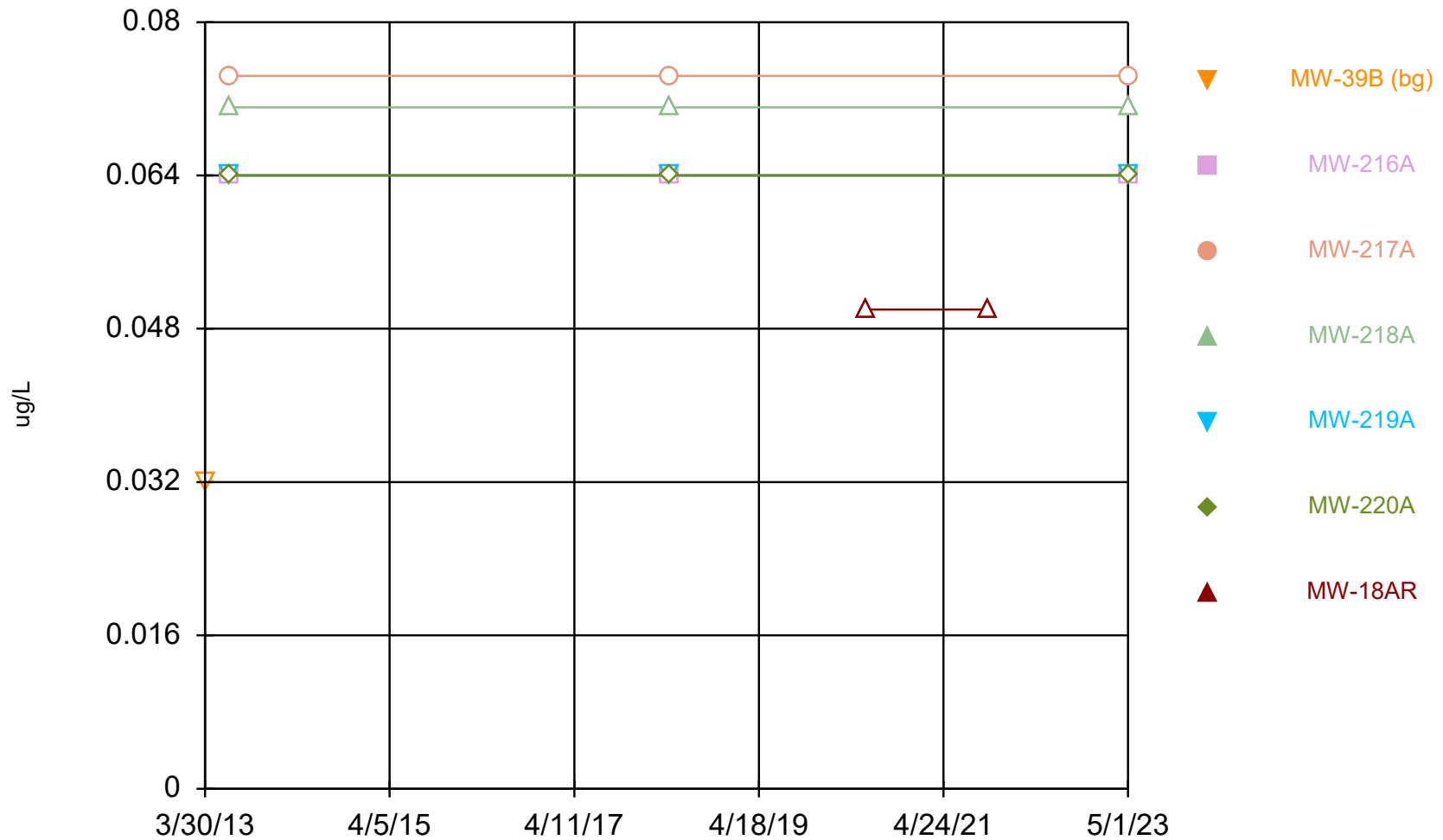
Time Series



Constituent: Beta-BHC Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

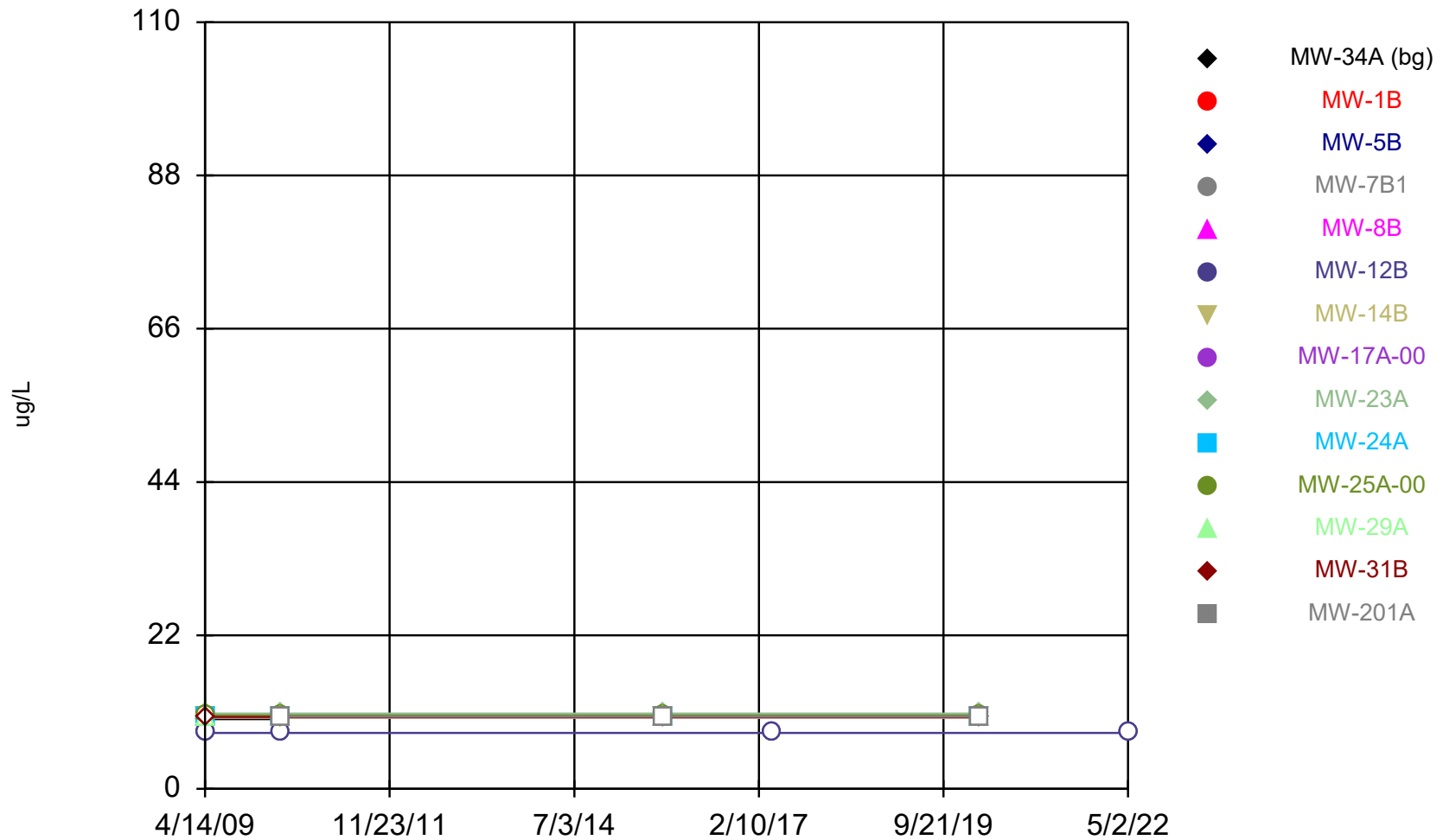
Time Series



Constituent: Beta-BHC Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL

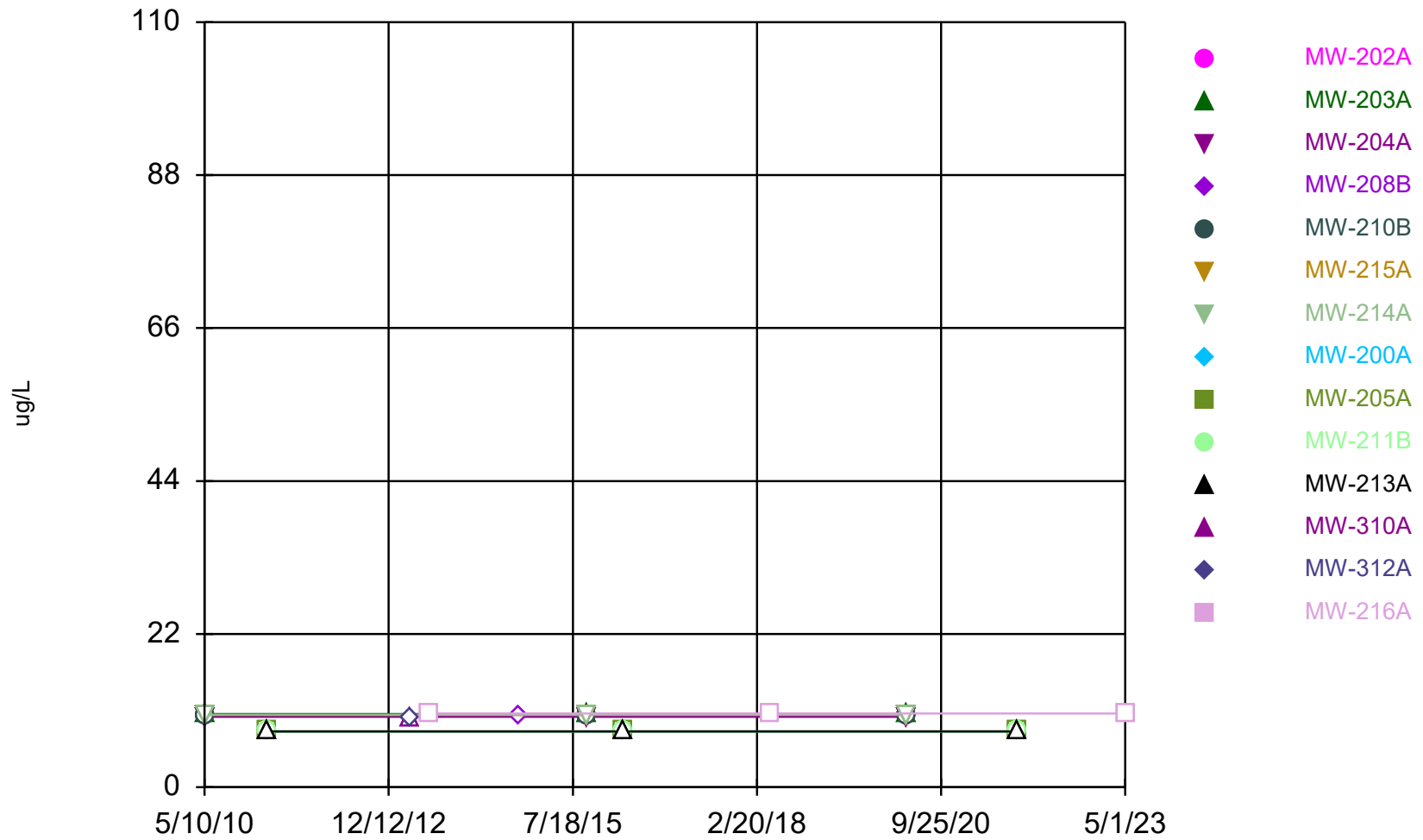
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



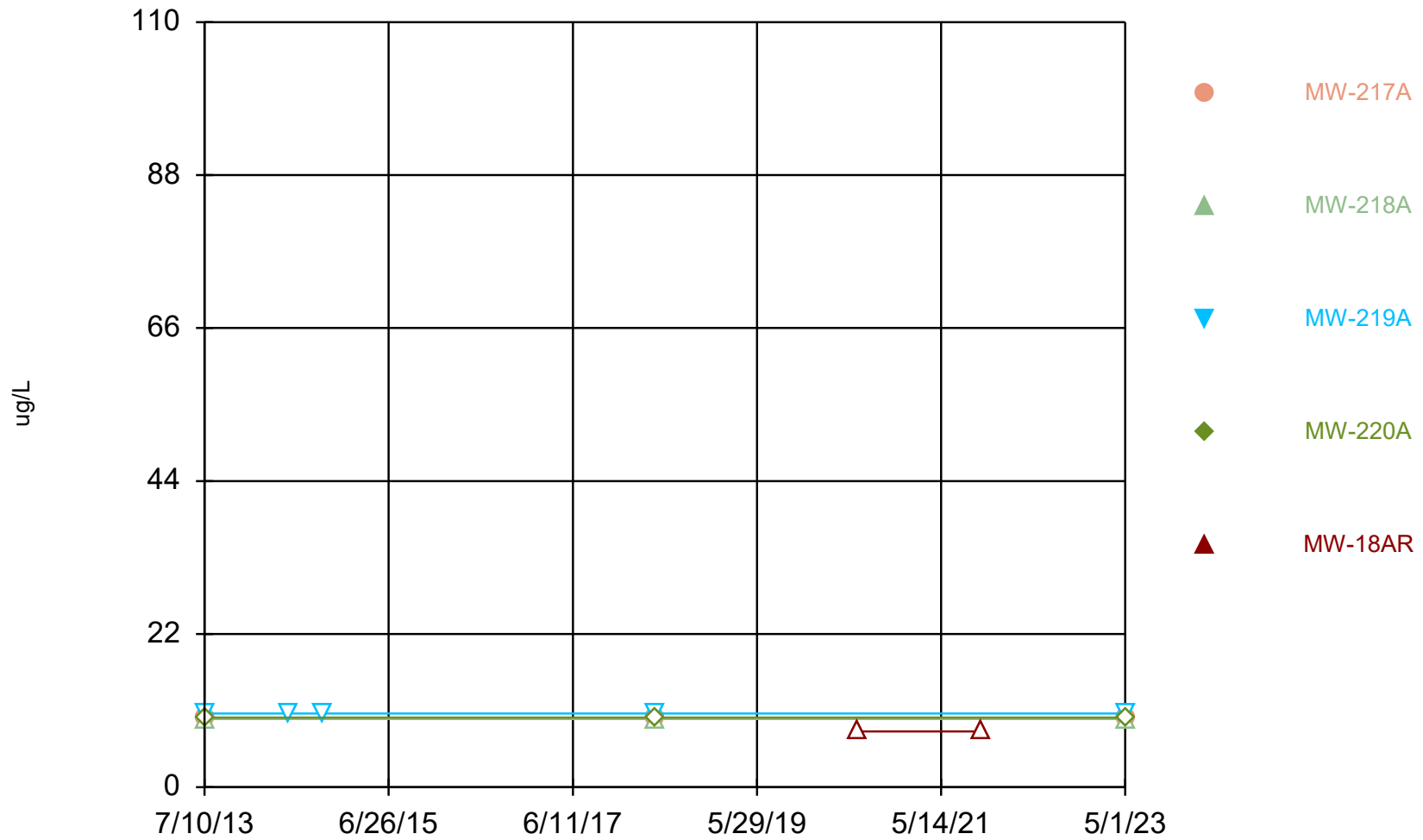
Constituent: Bis[2-chloroethoxy]methane Analysis Run 1/21/2025 9:12 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



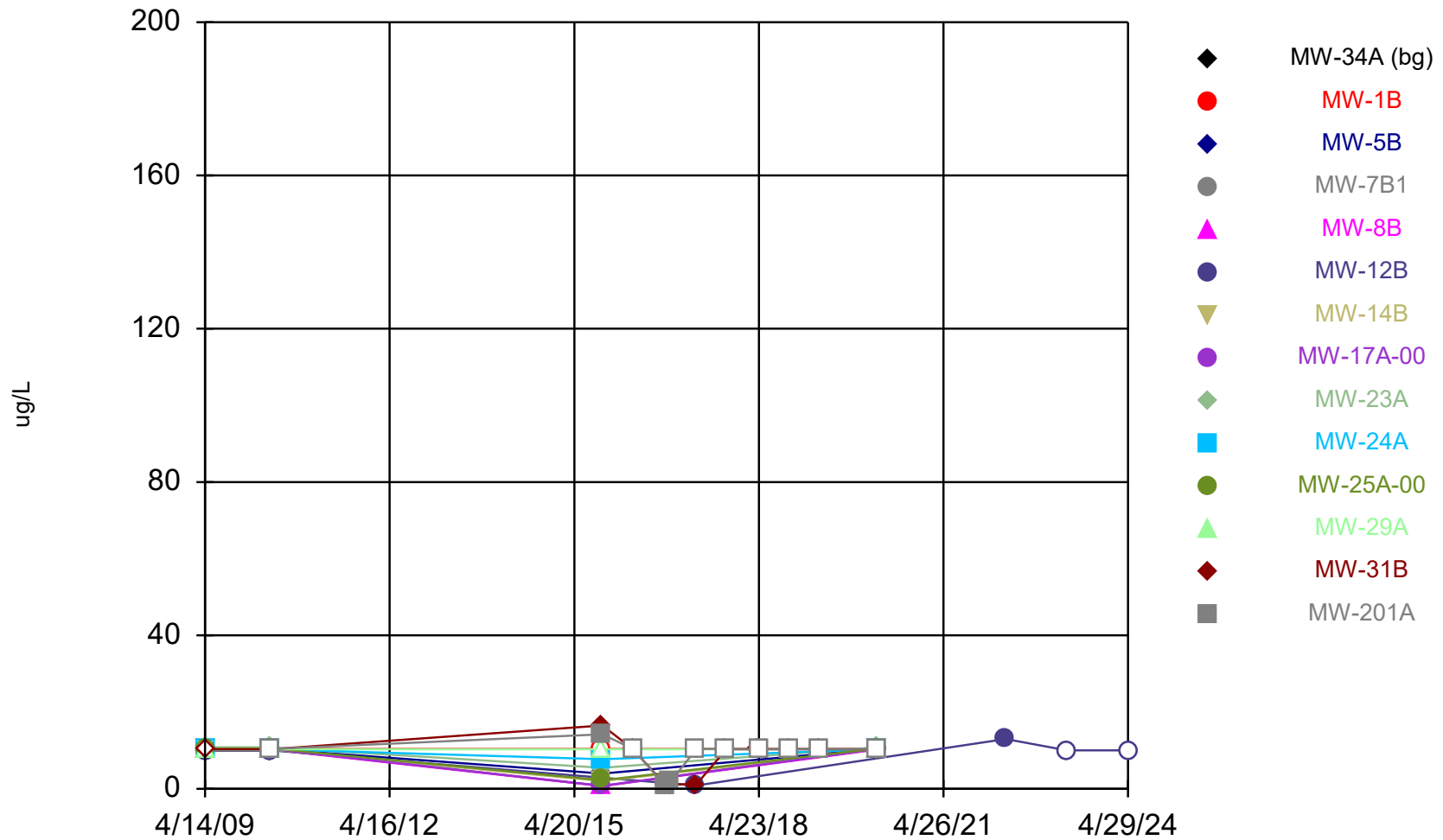
Constituent: Bis[2-chloroethoxy]methane Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



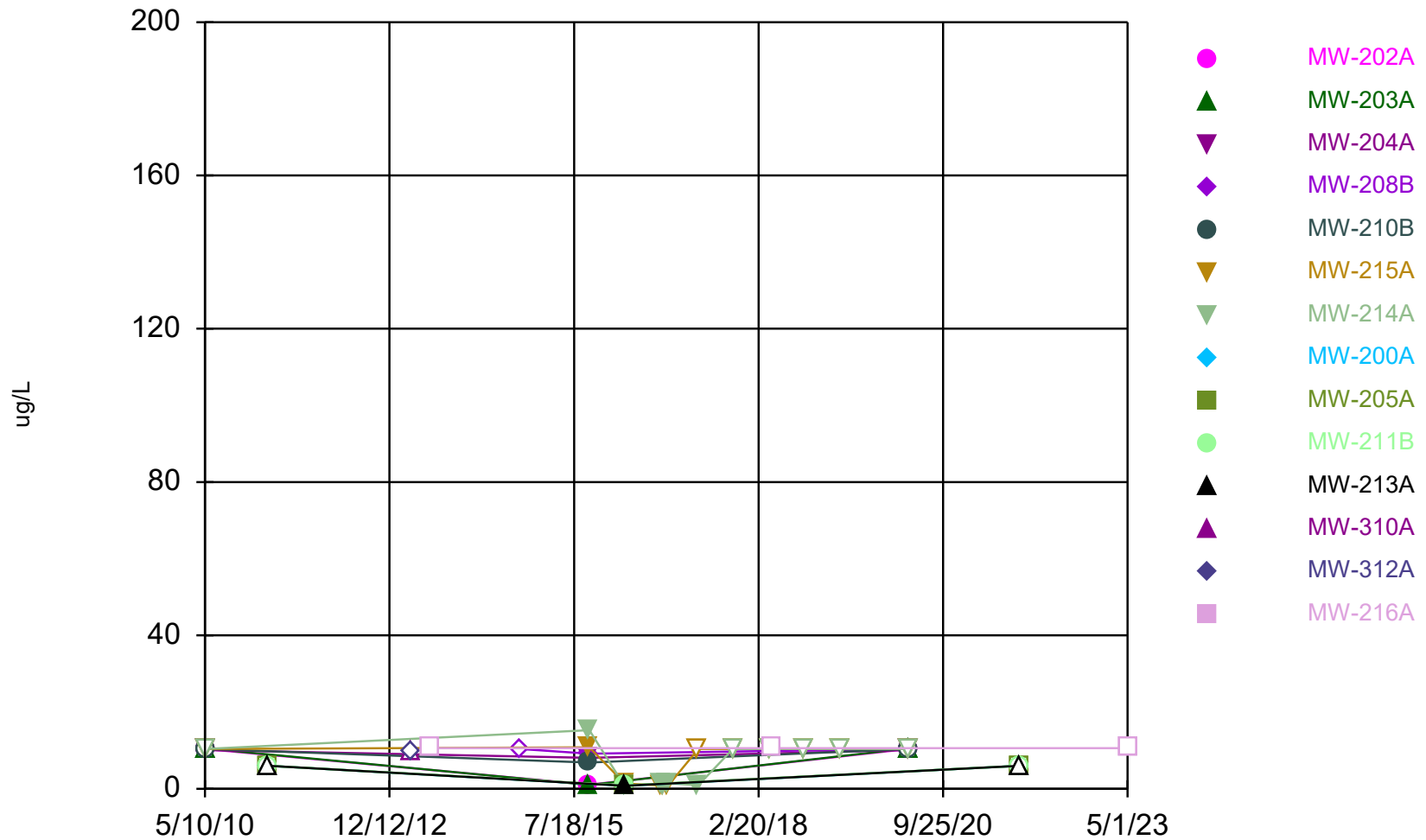
Constituent: Bis[2-chloroethoxy]methane Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



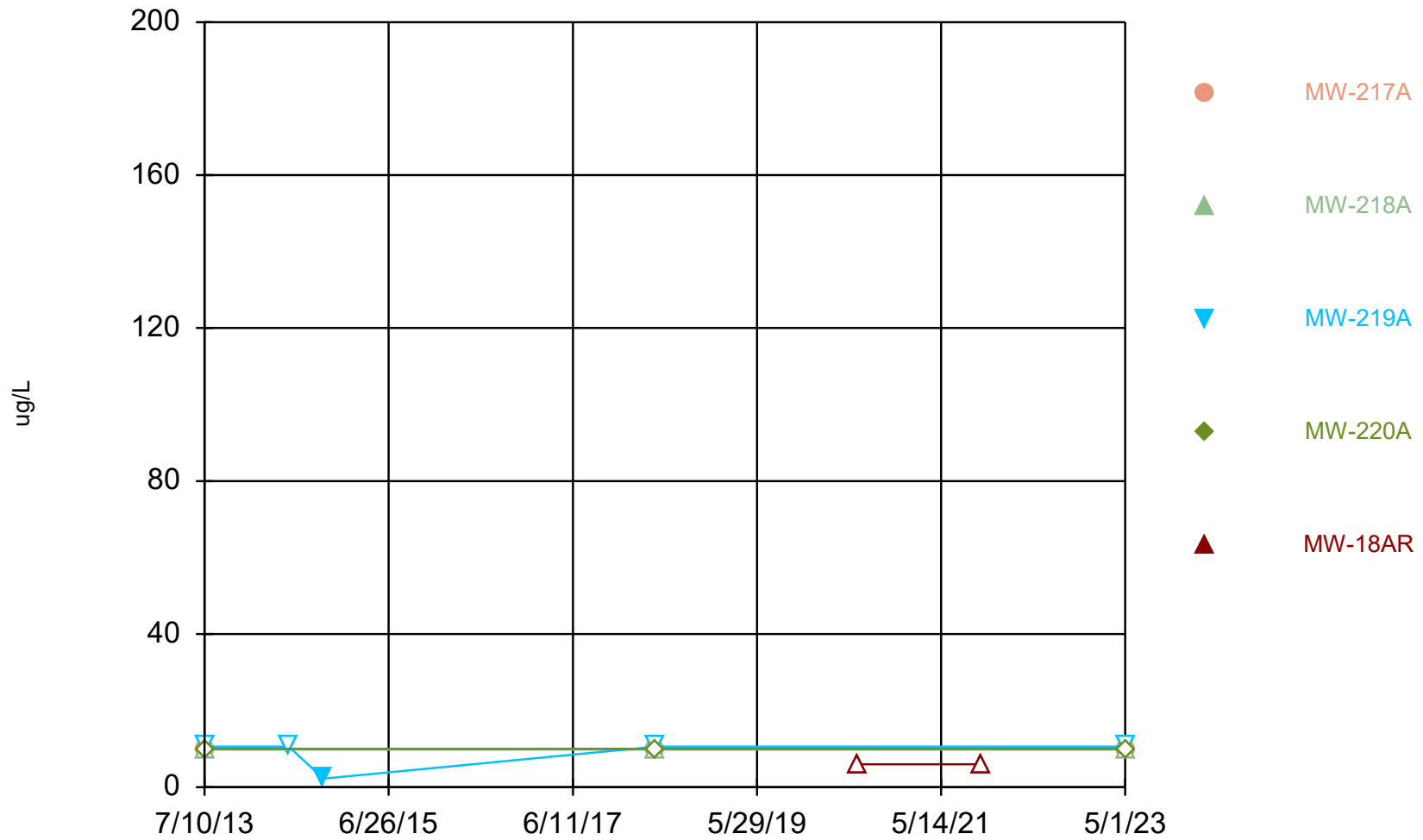
Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



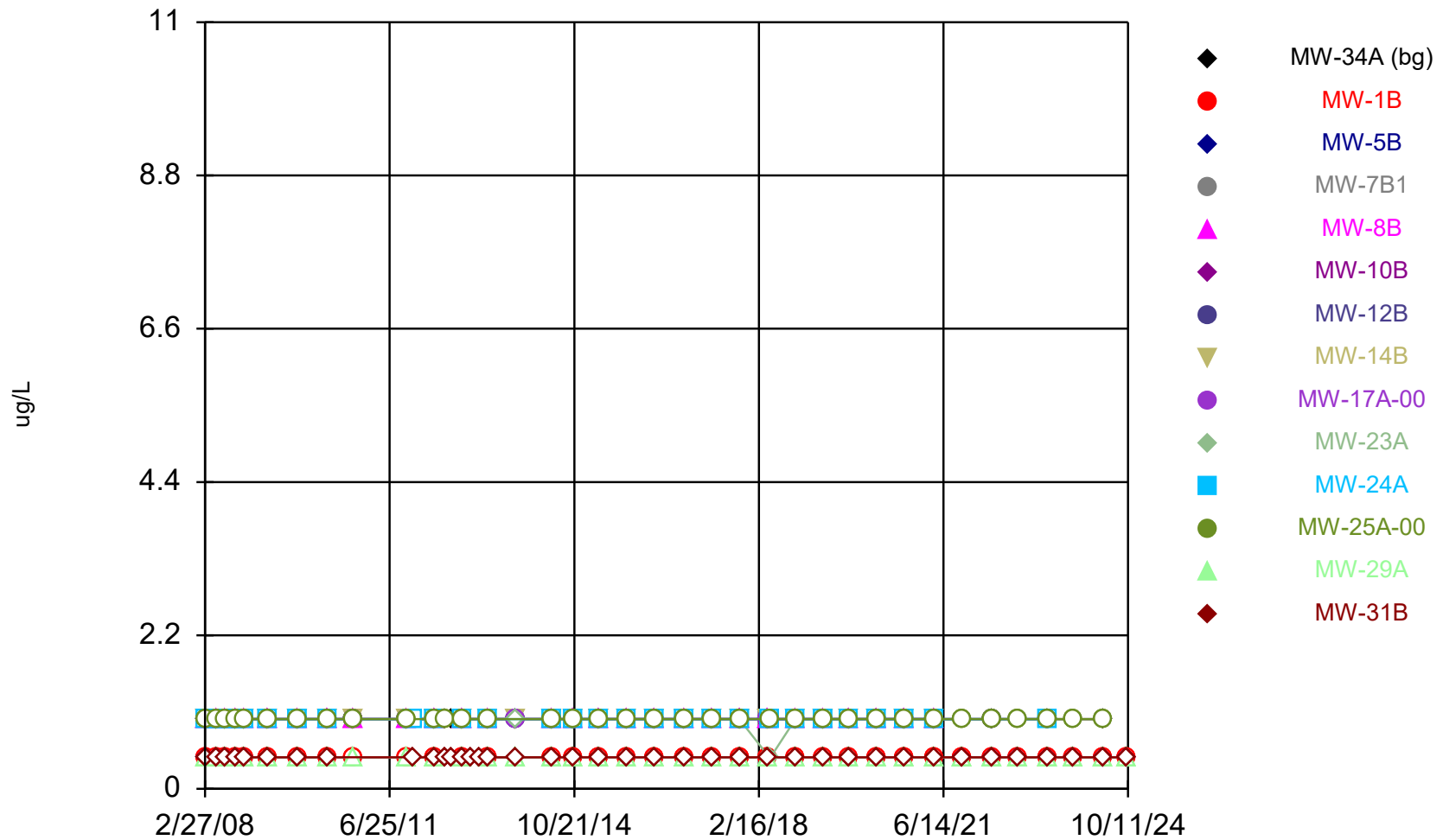
Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

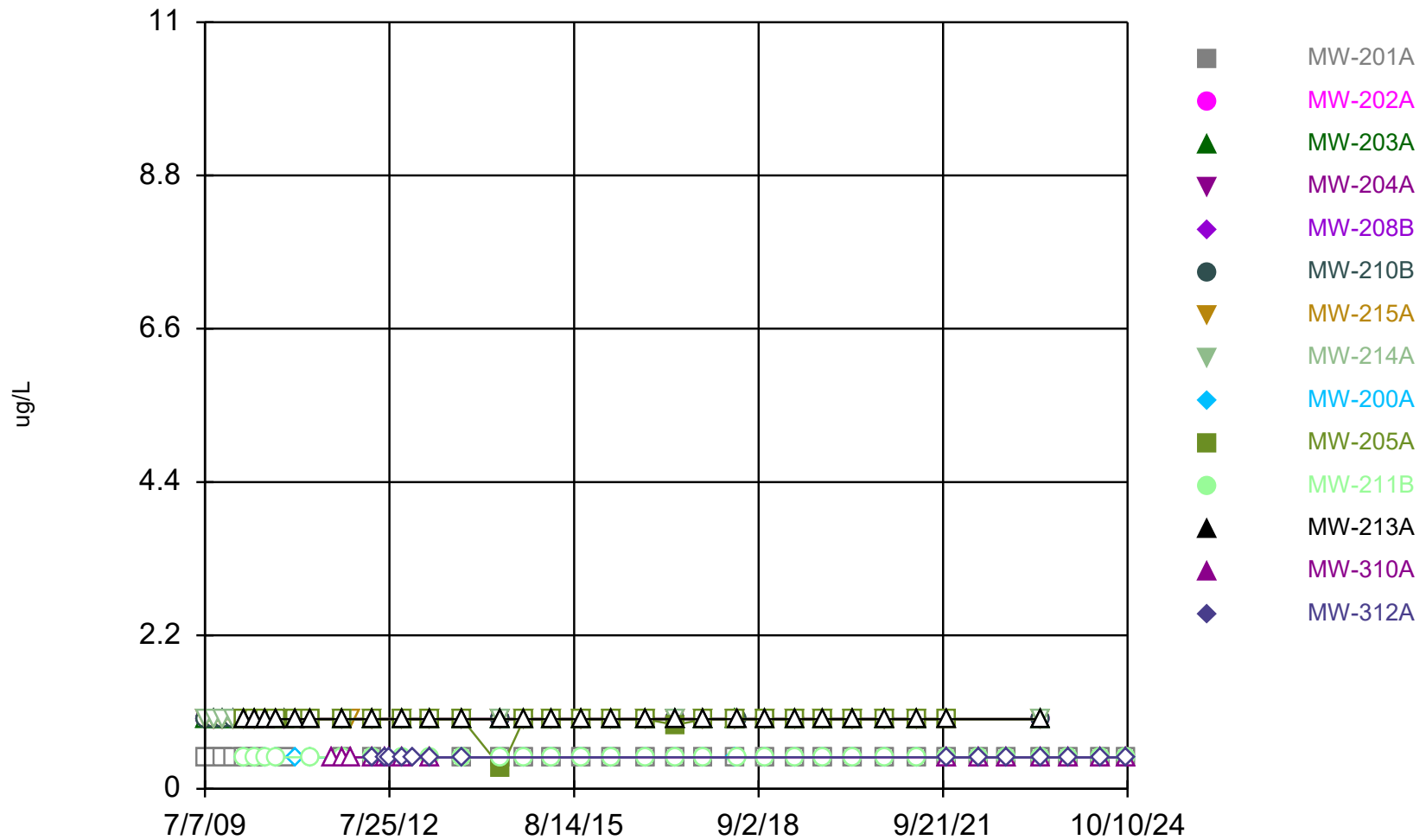
Time Series



Constituent: Carbon Disulfide Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

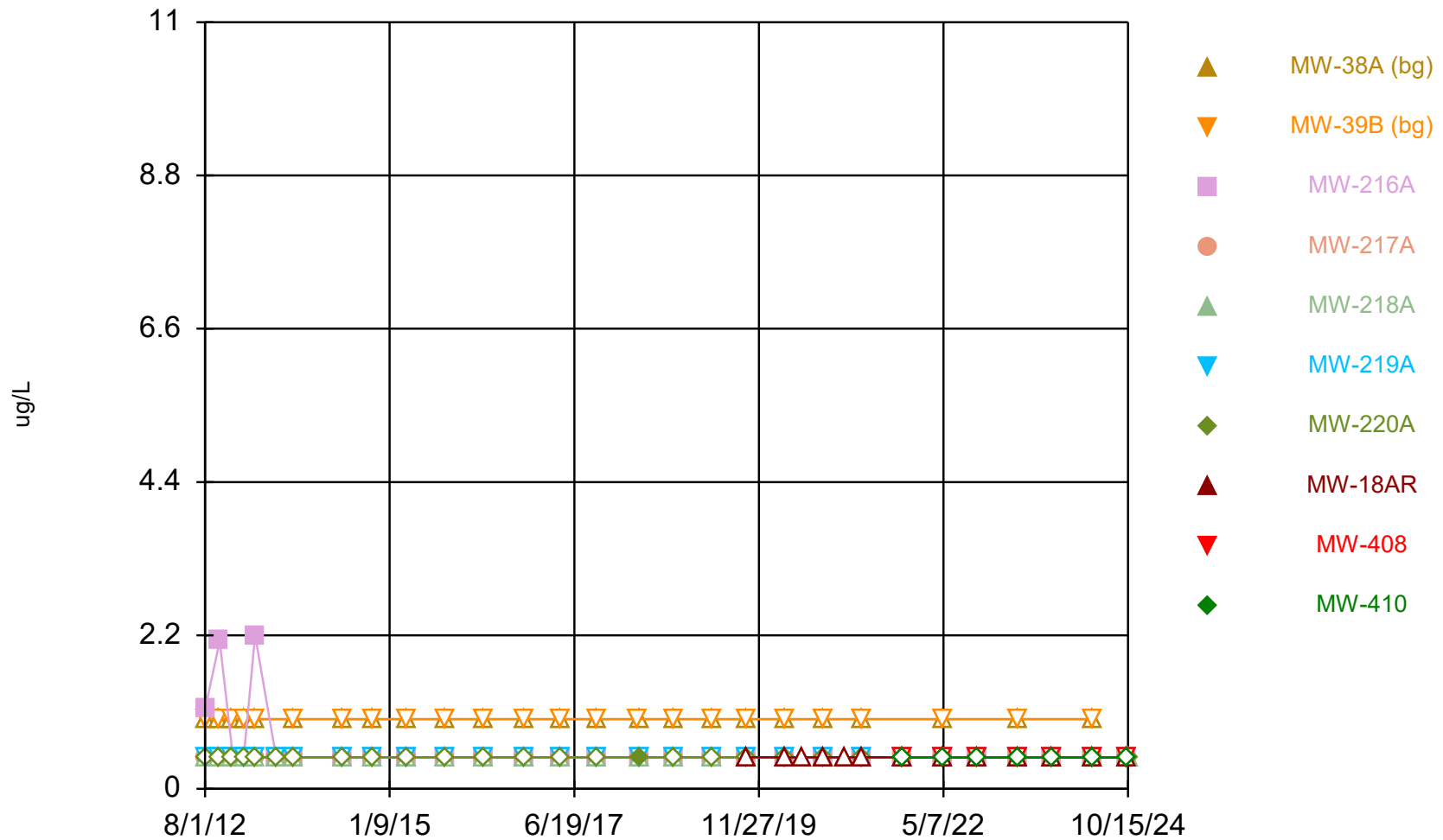
Time Series



Constituent: Carbon Disulfide Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

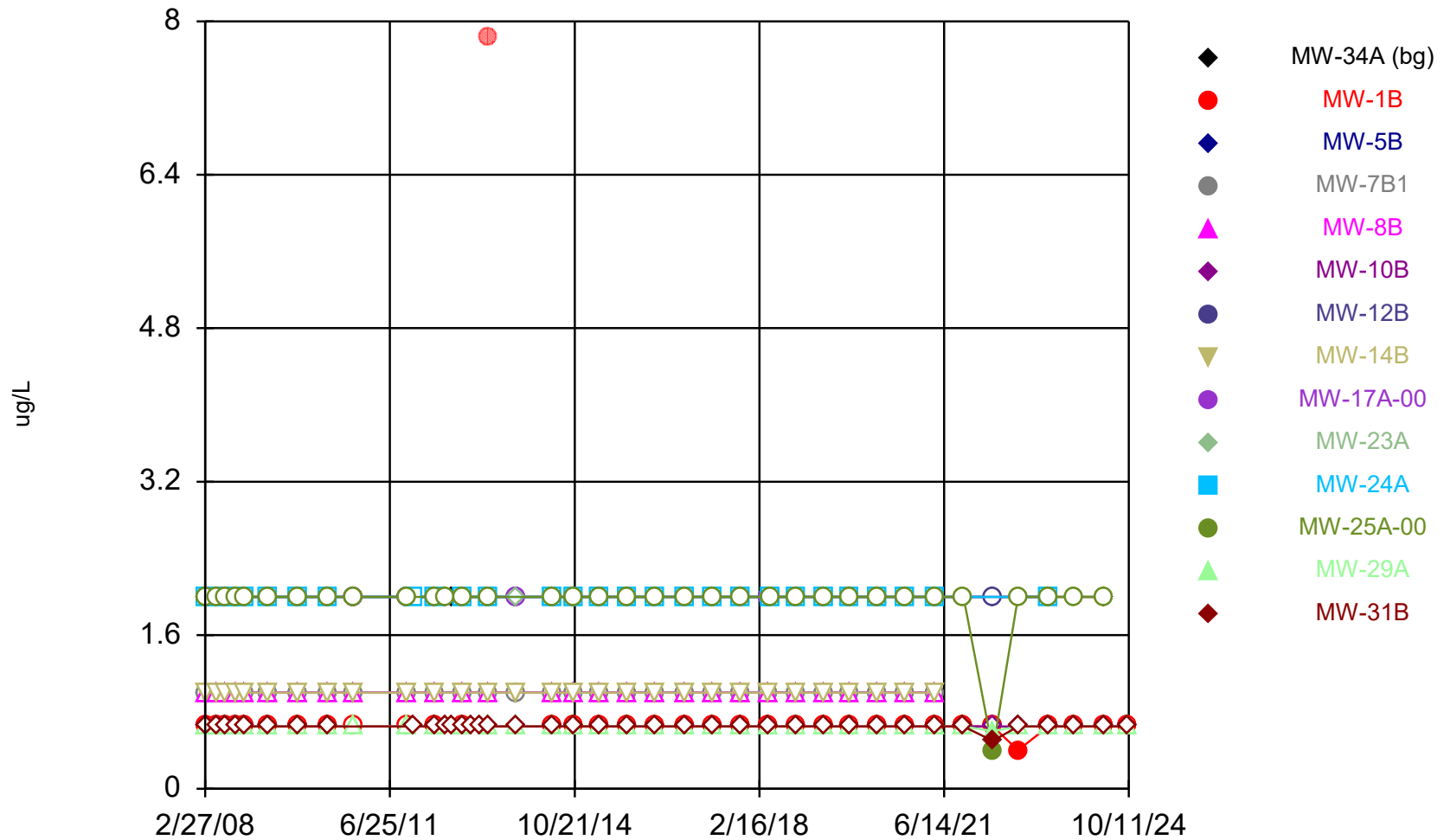
Time Series



Constituent: Carbon Disulfide Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

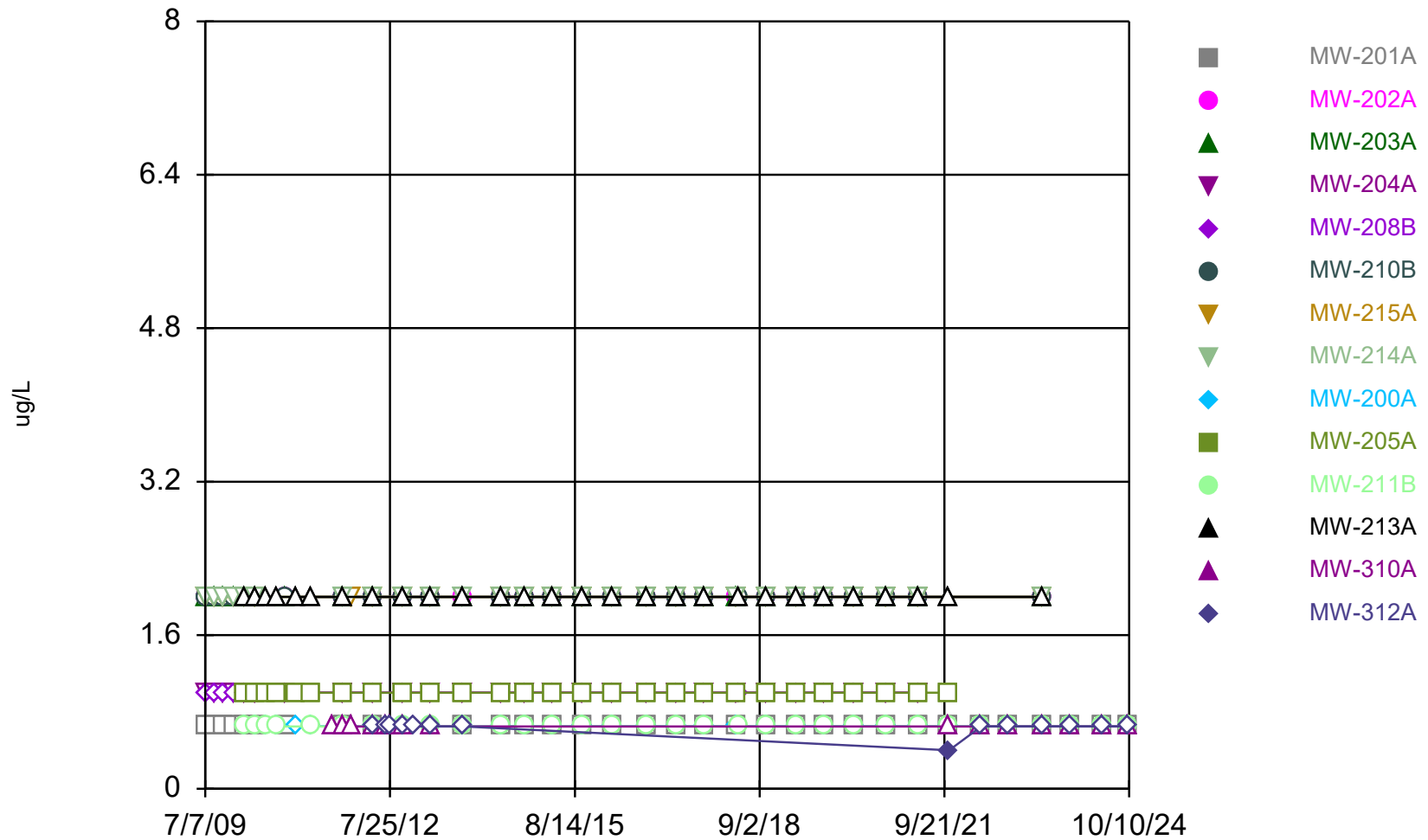
Time Series



Constituent: Carbon Tetrachloride Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

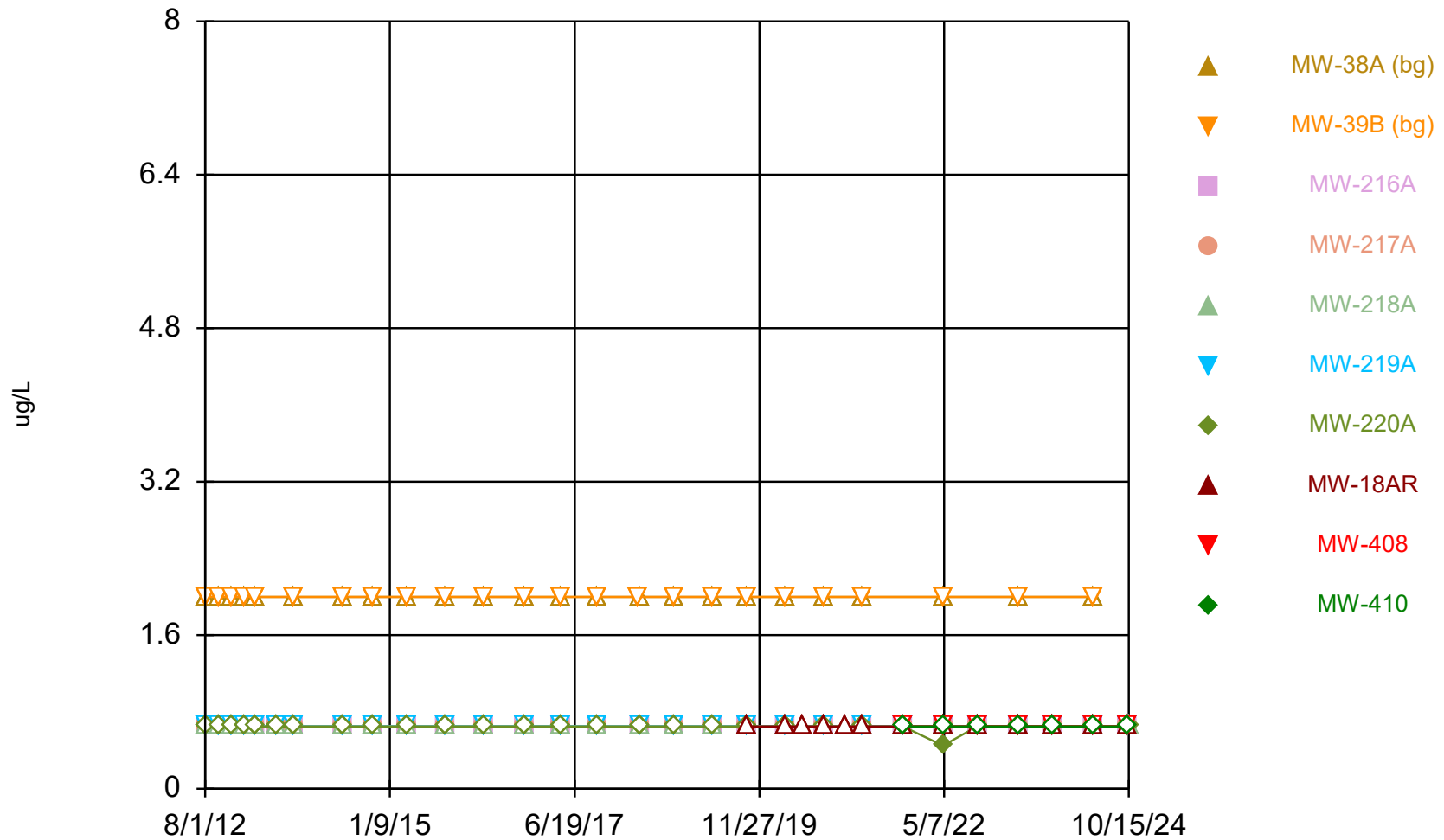
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: Carbon Tetrachloride Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

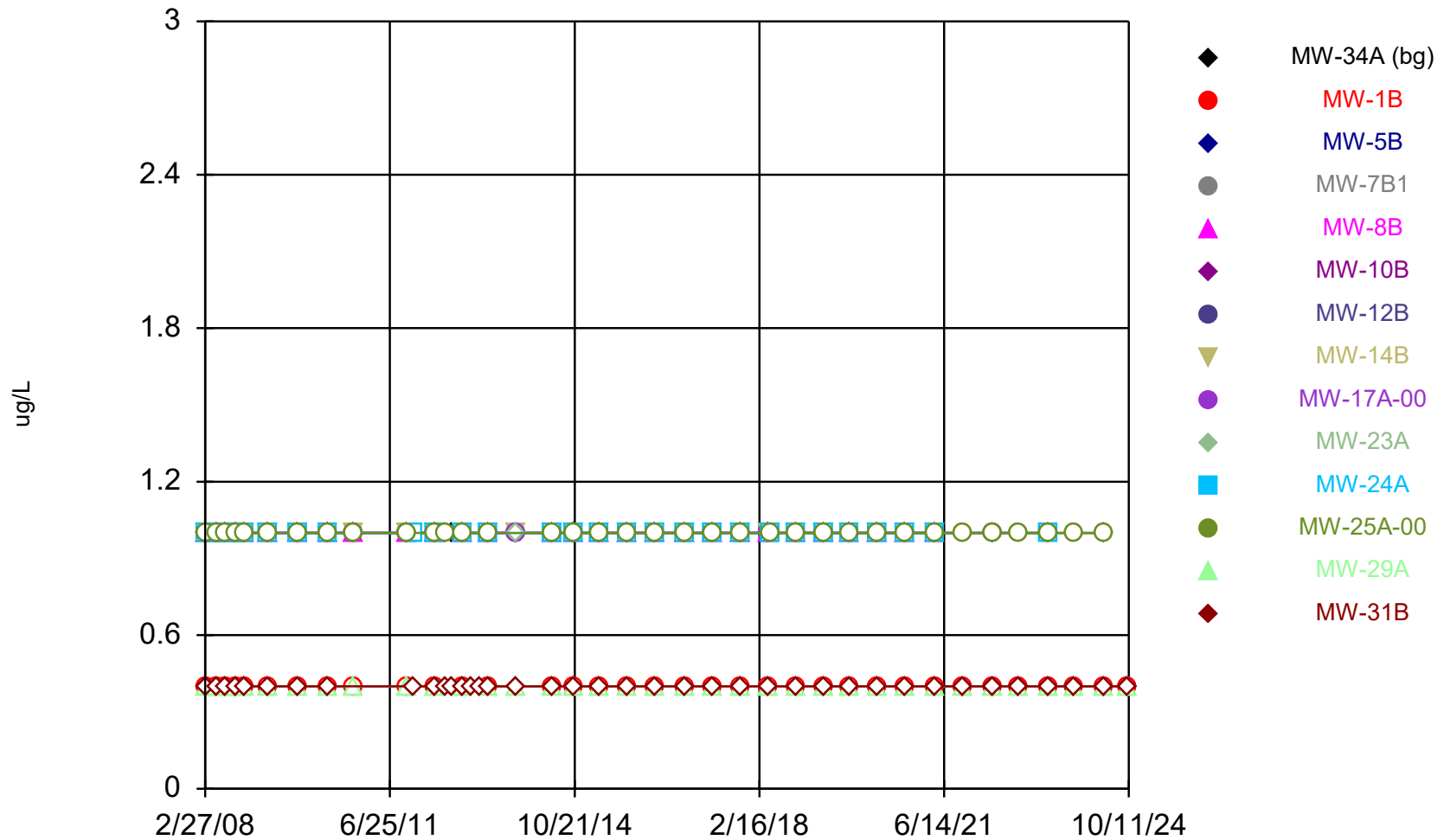
Time Series



Constituent: Carbon Tetrachloride Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

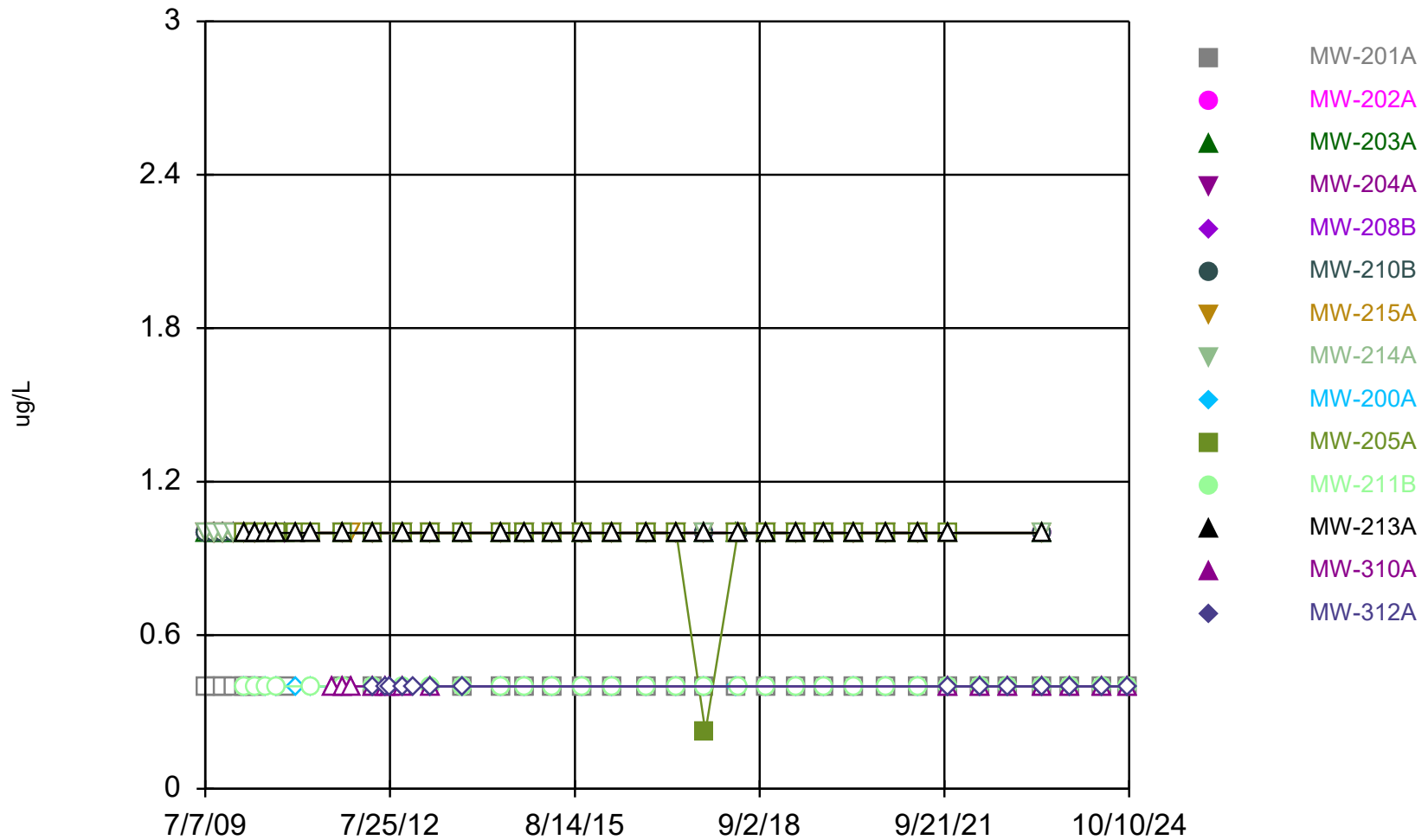
Time Series



Constituent: Chlorobenzene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

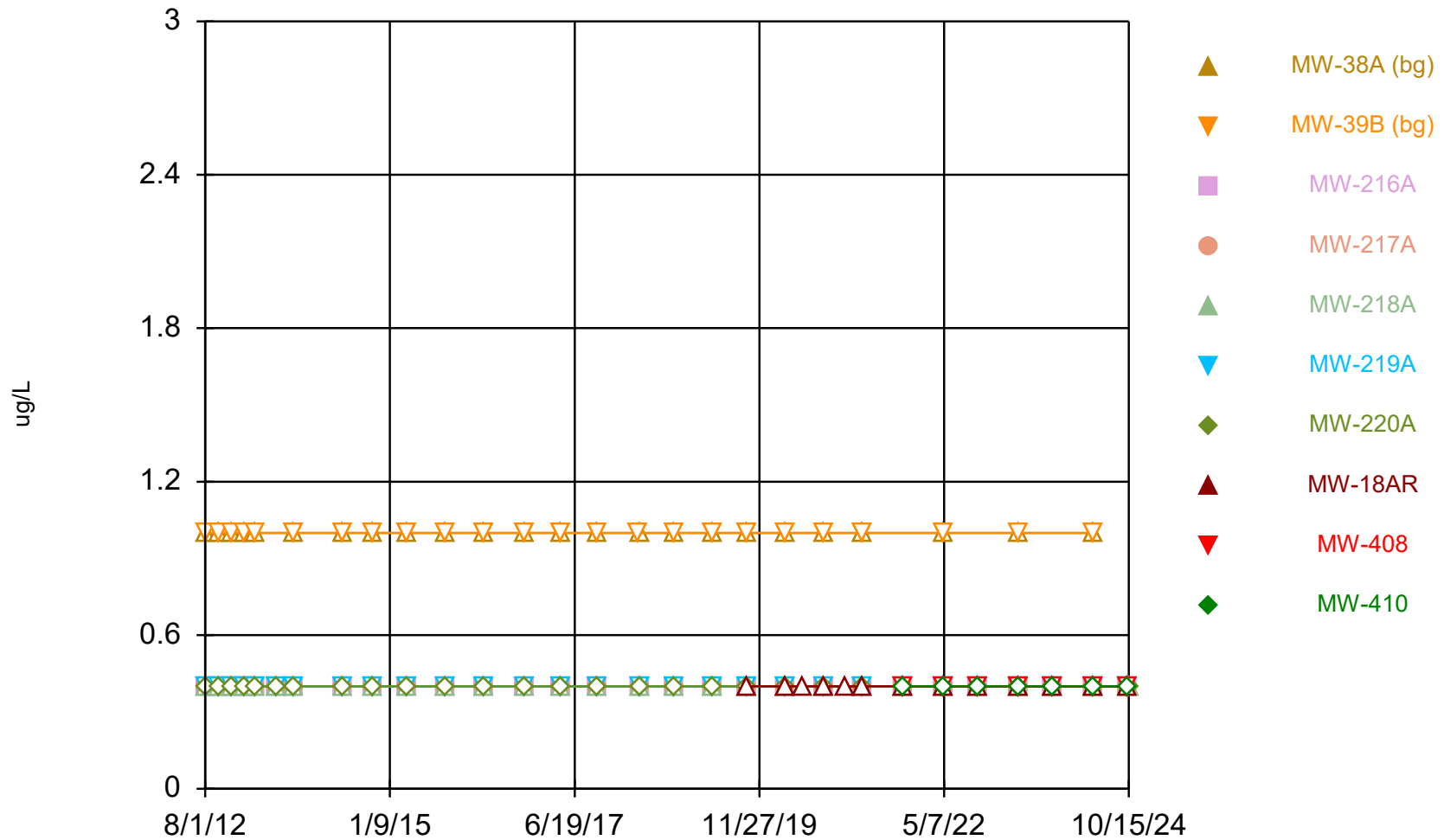
Time Series



Constituent: Chlorobenzene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

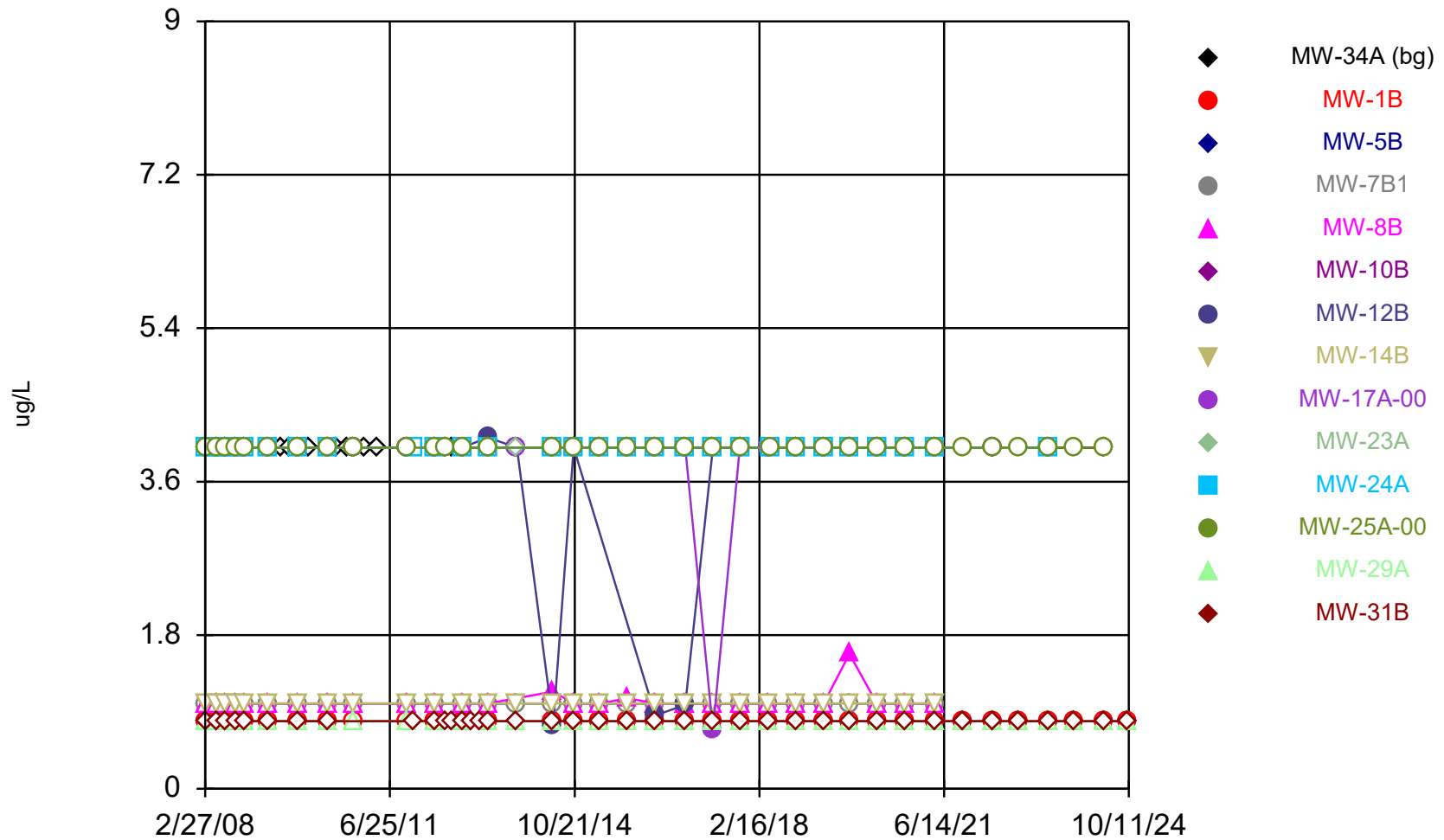
Time Series



Constituent: Chlorobenzene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

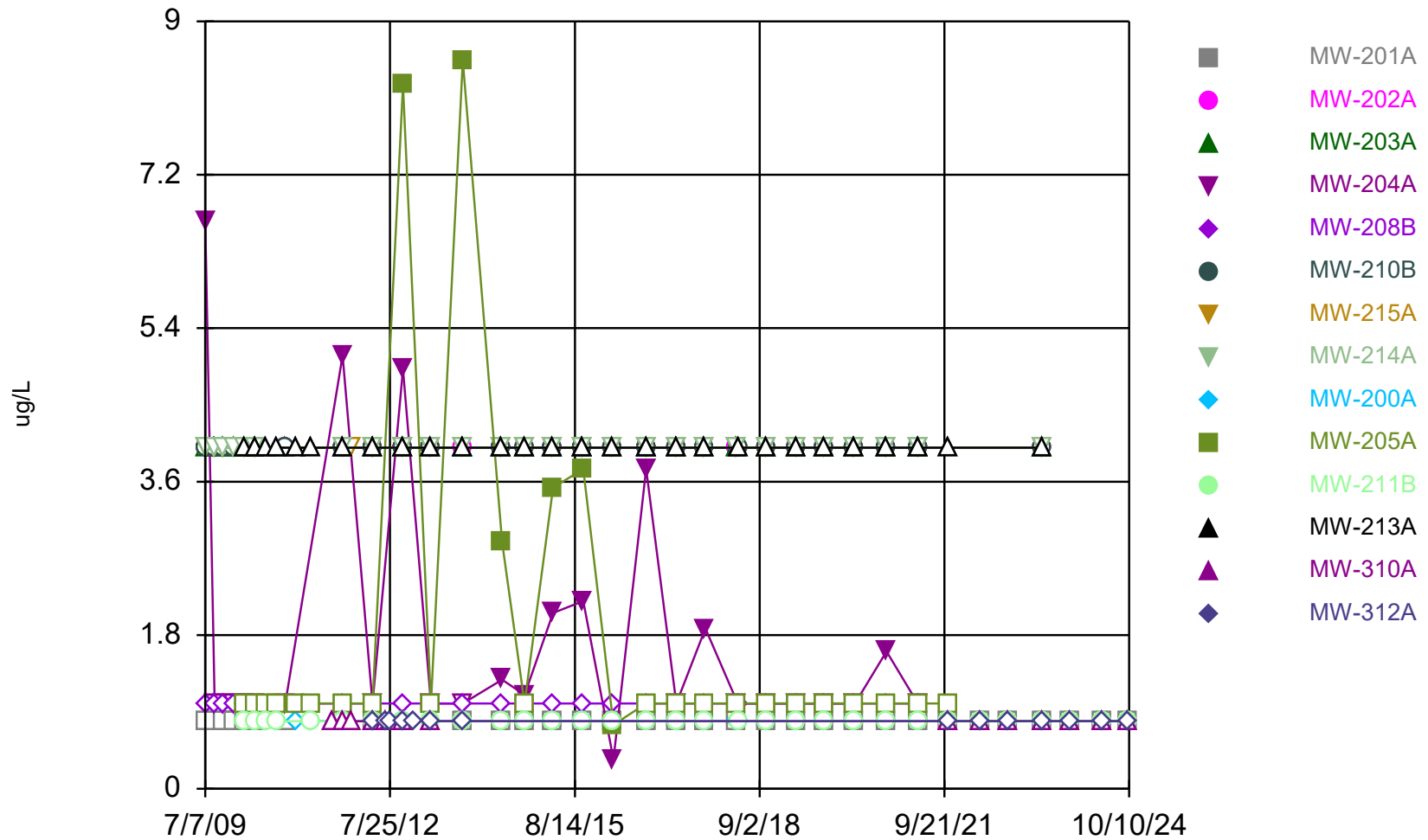
Time Series



Constituent: Chloroethane Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

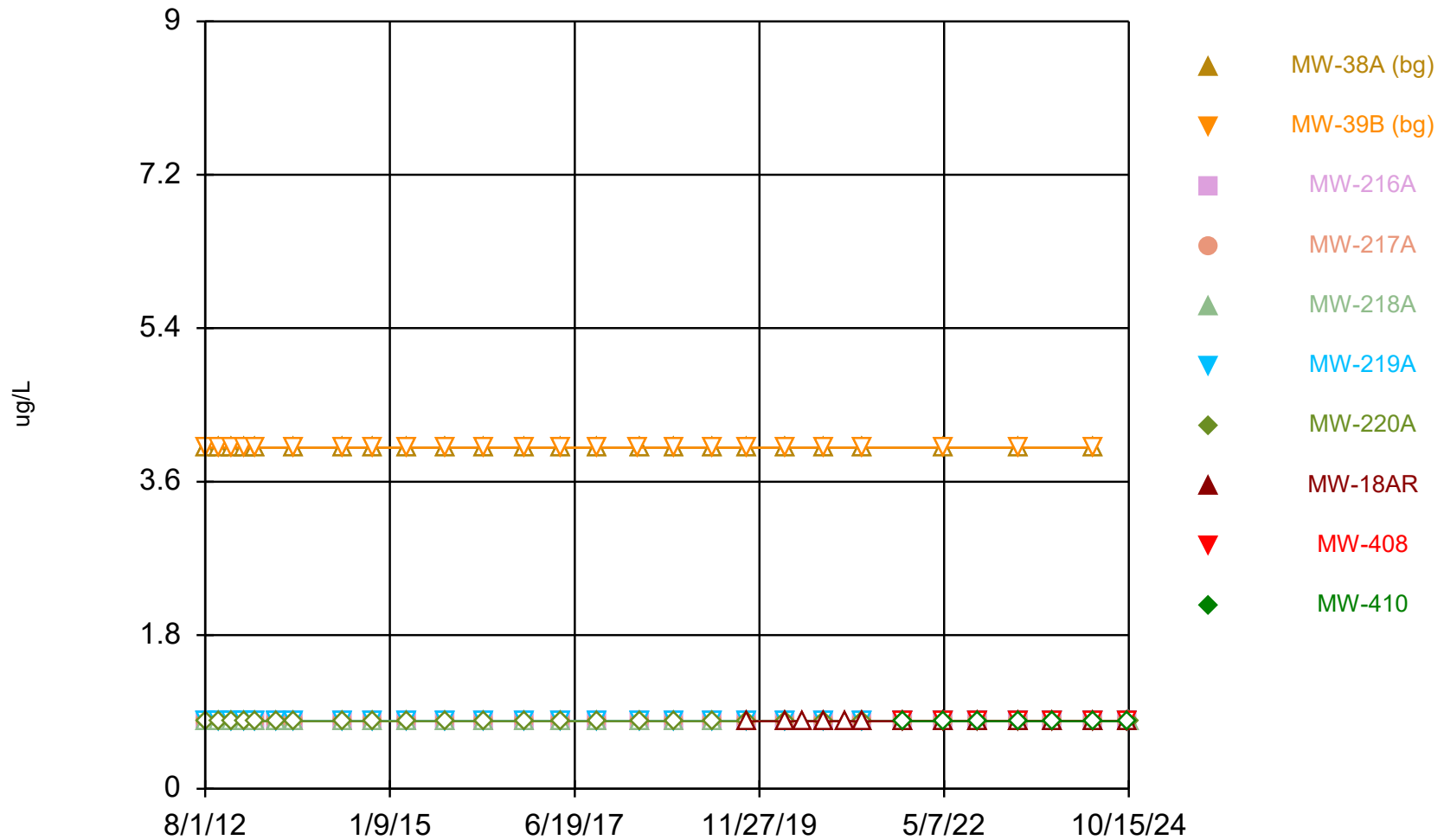
Time Series



Constituent: Chloroethane Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

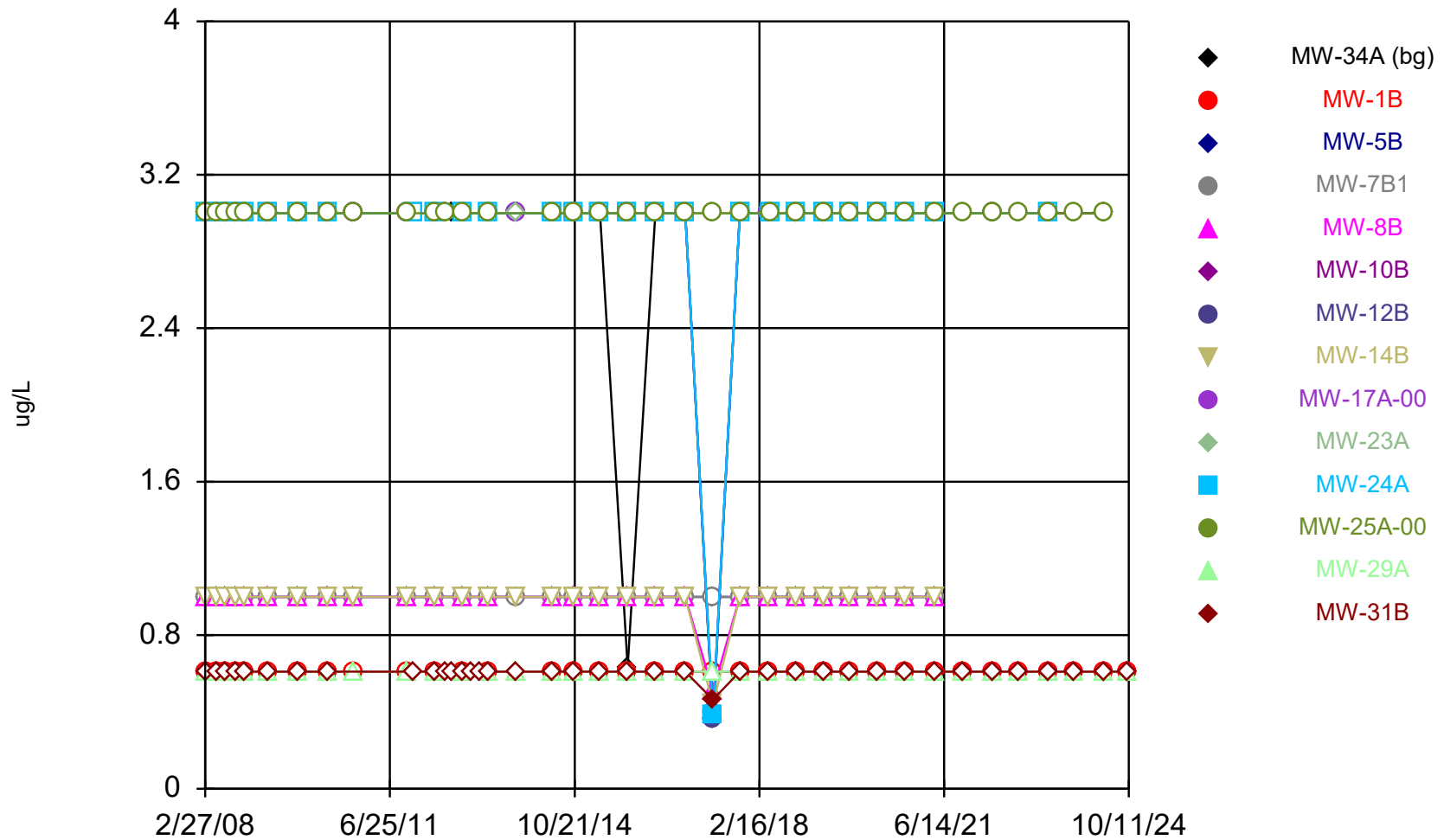
Time Series



Constituent: Chloroethane Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

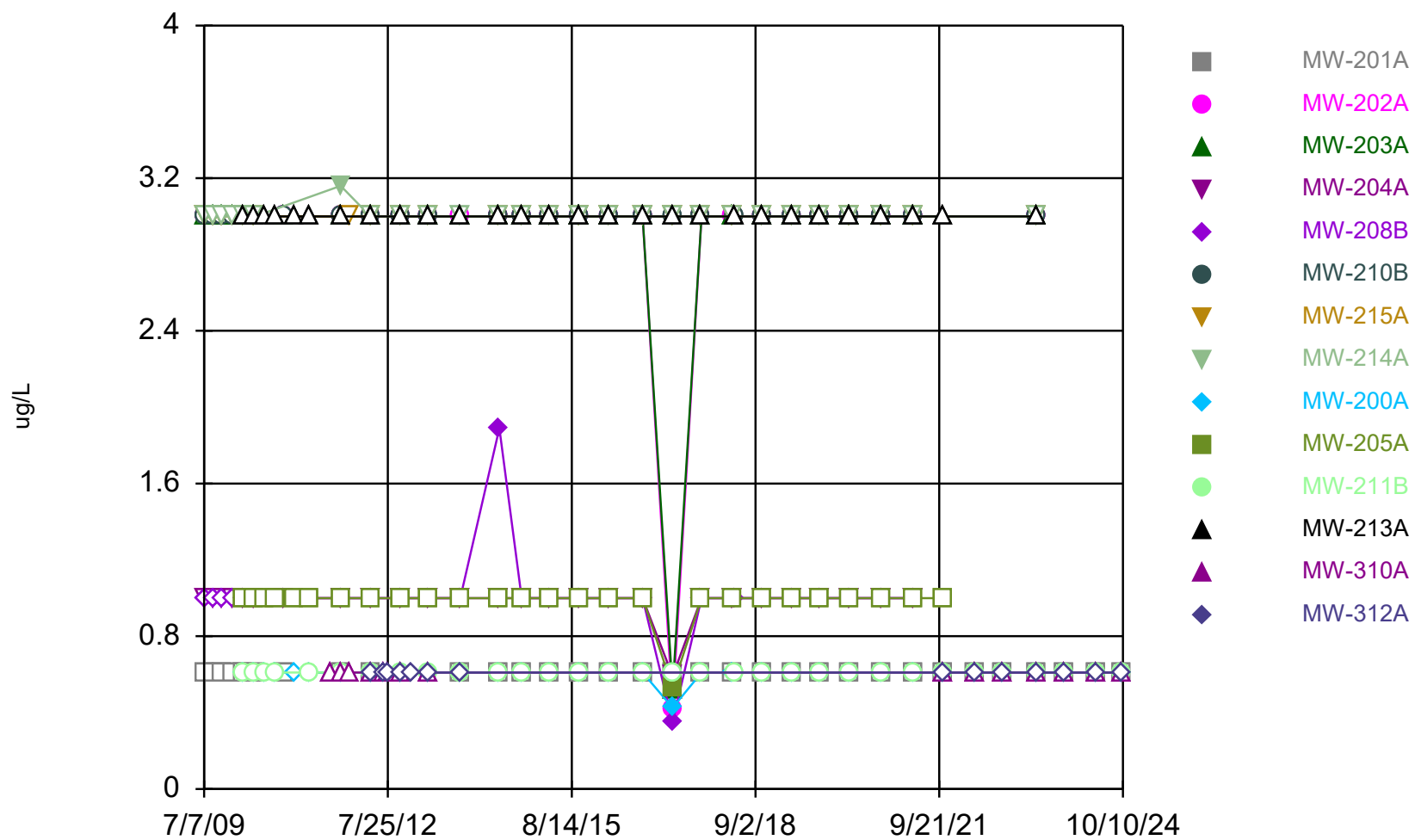
Time Series



Constituent: Chloromethane Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

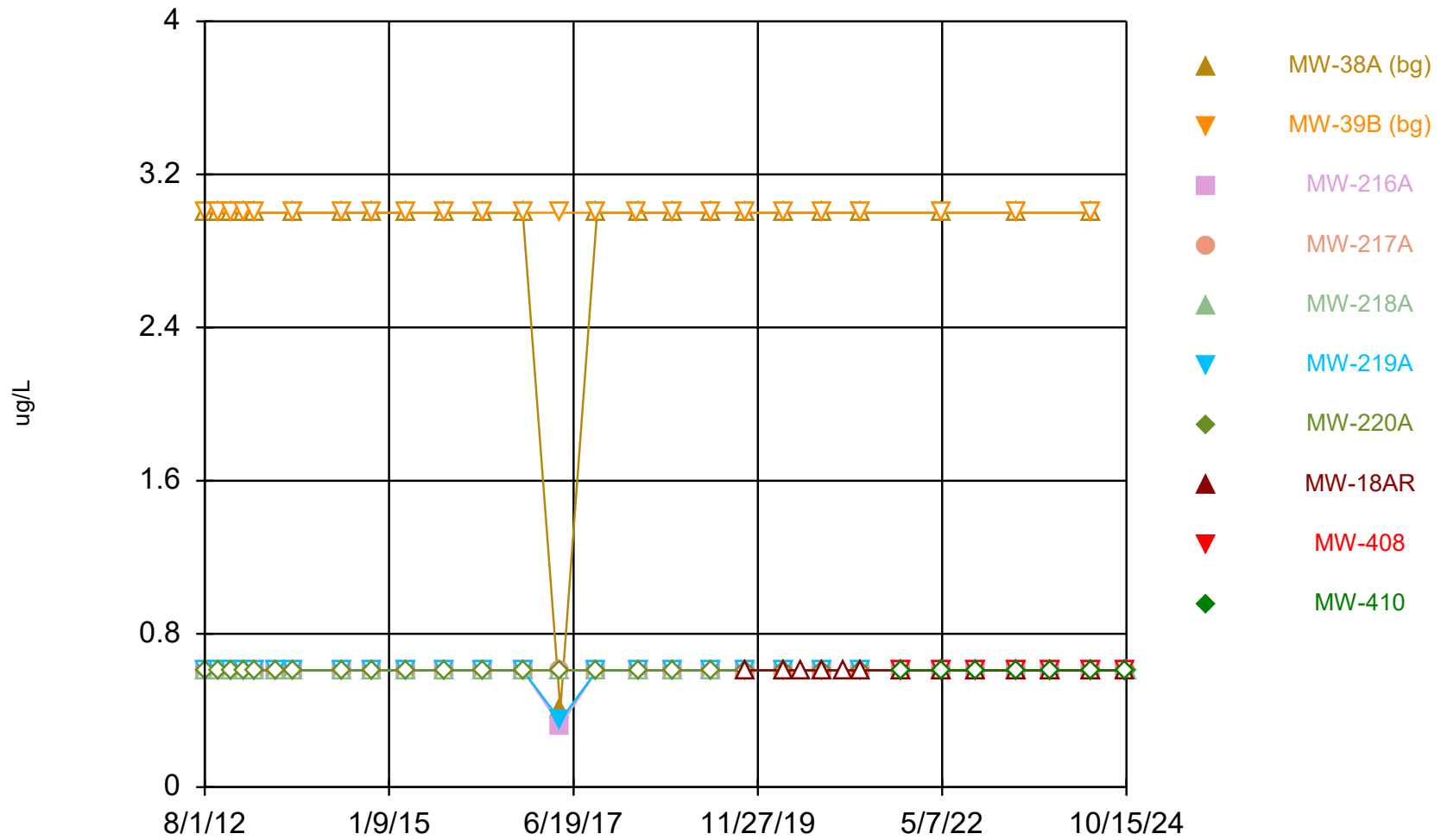
Time Series



Constituent: Chloromethane Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

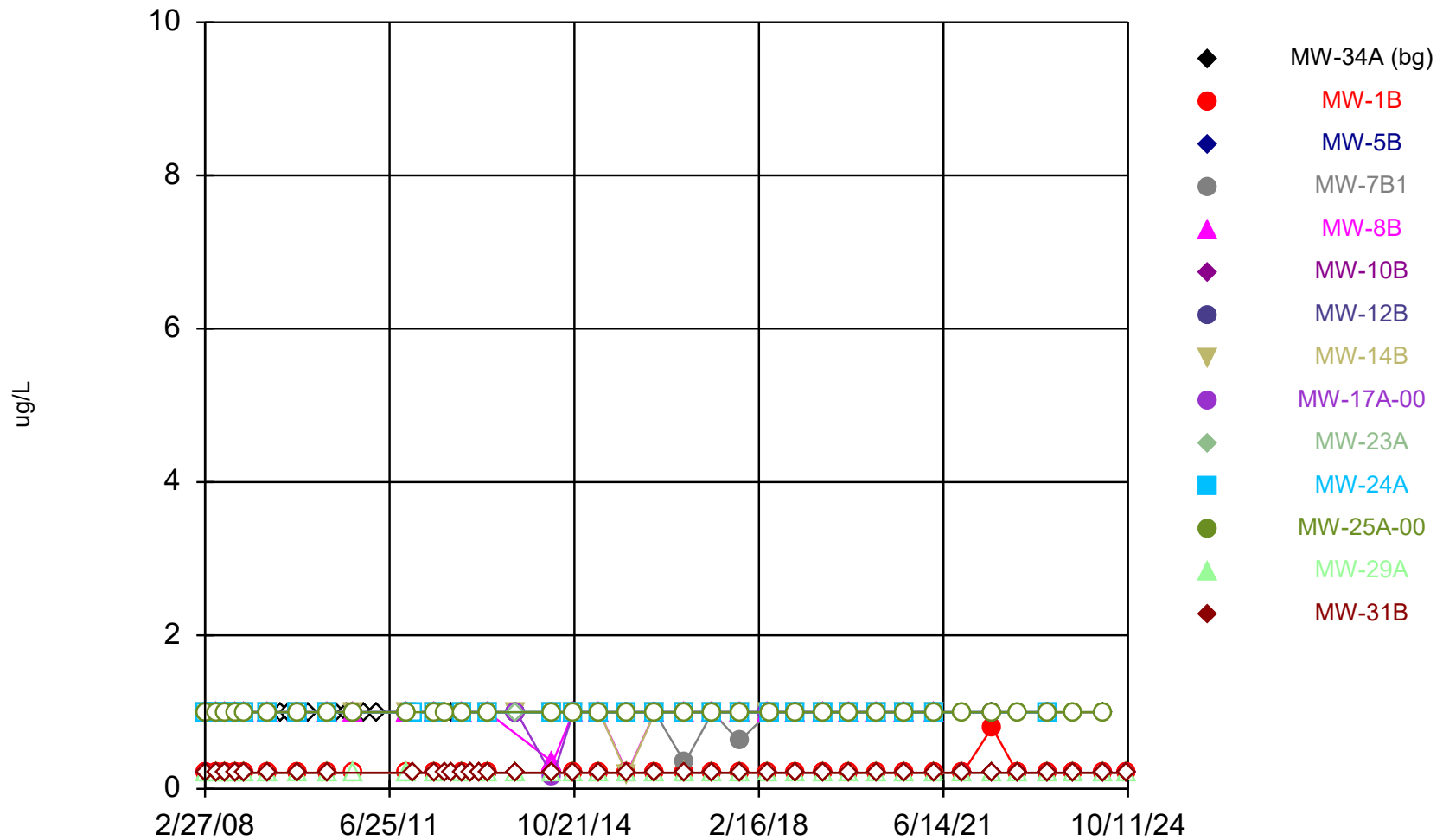
Time Series



Constituent: Chloromethane Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

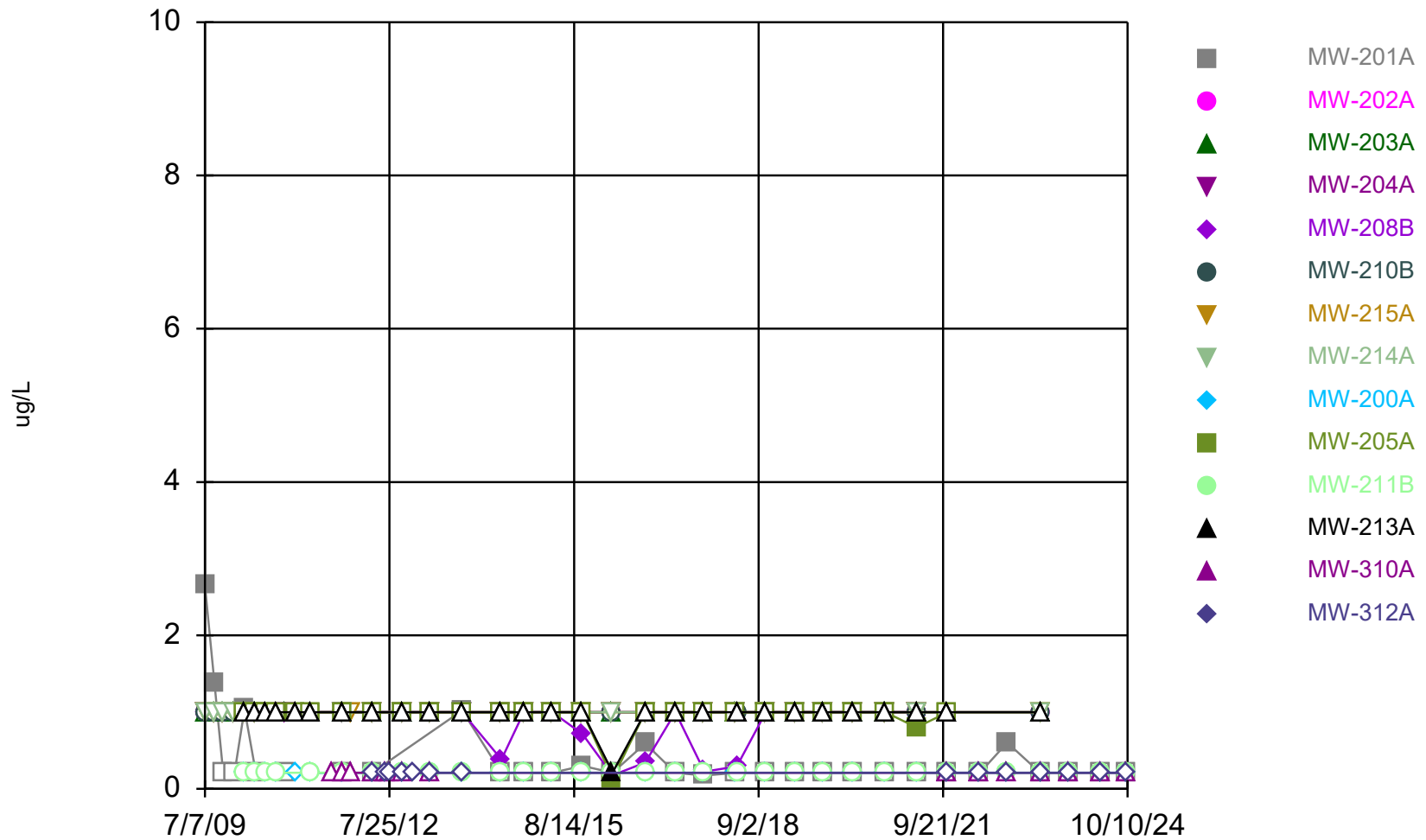
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



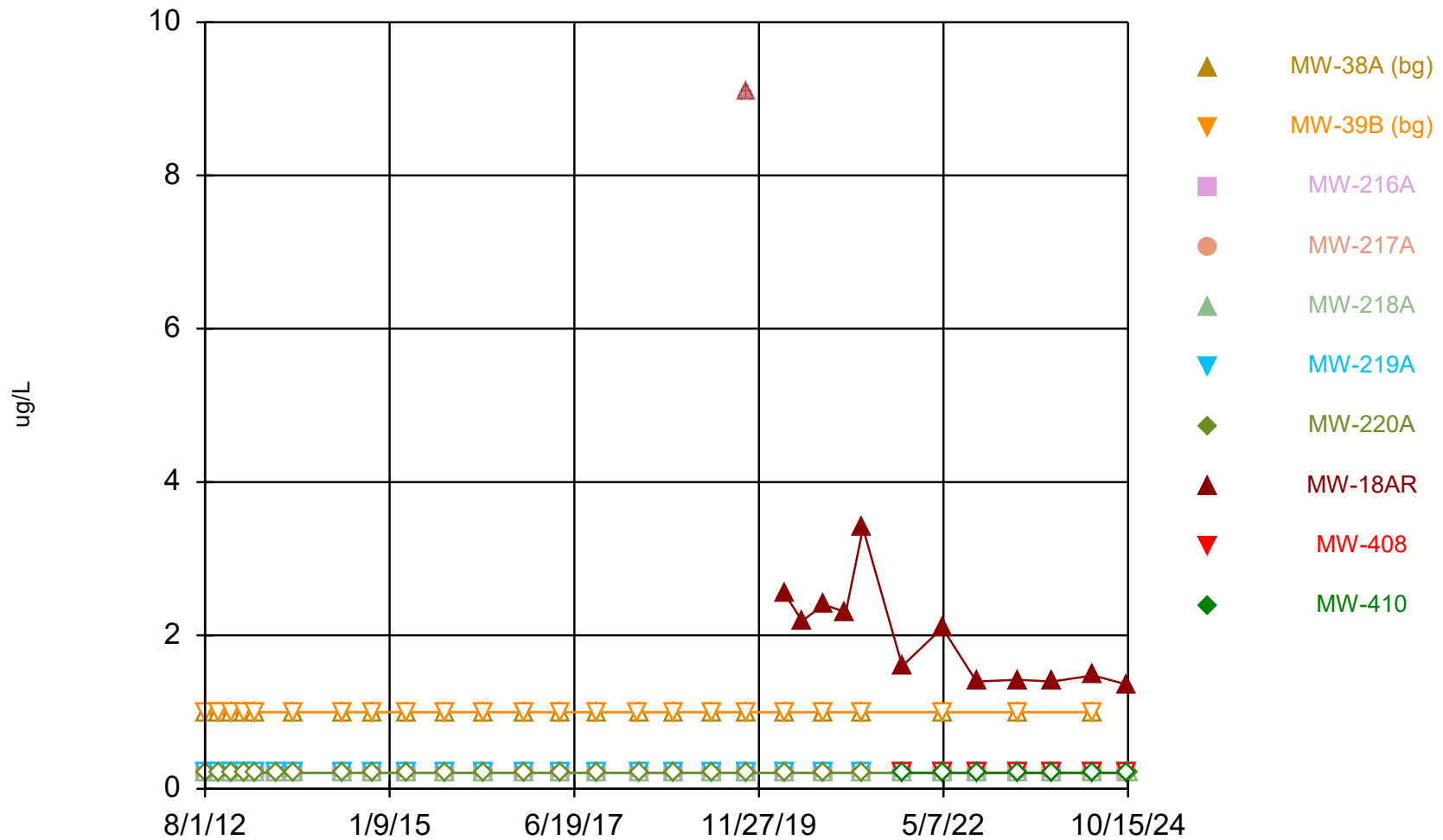
Constituent: cis-1,2-Dichloroethene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

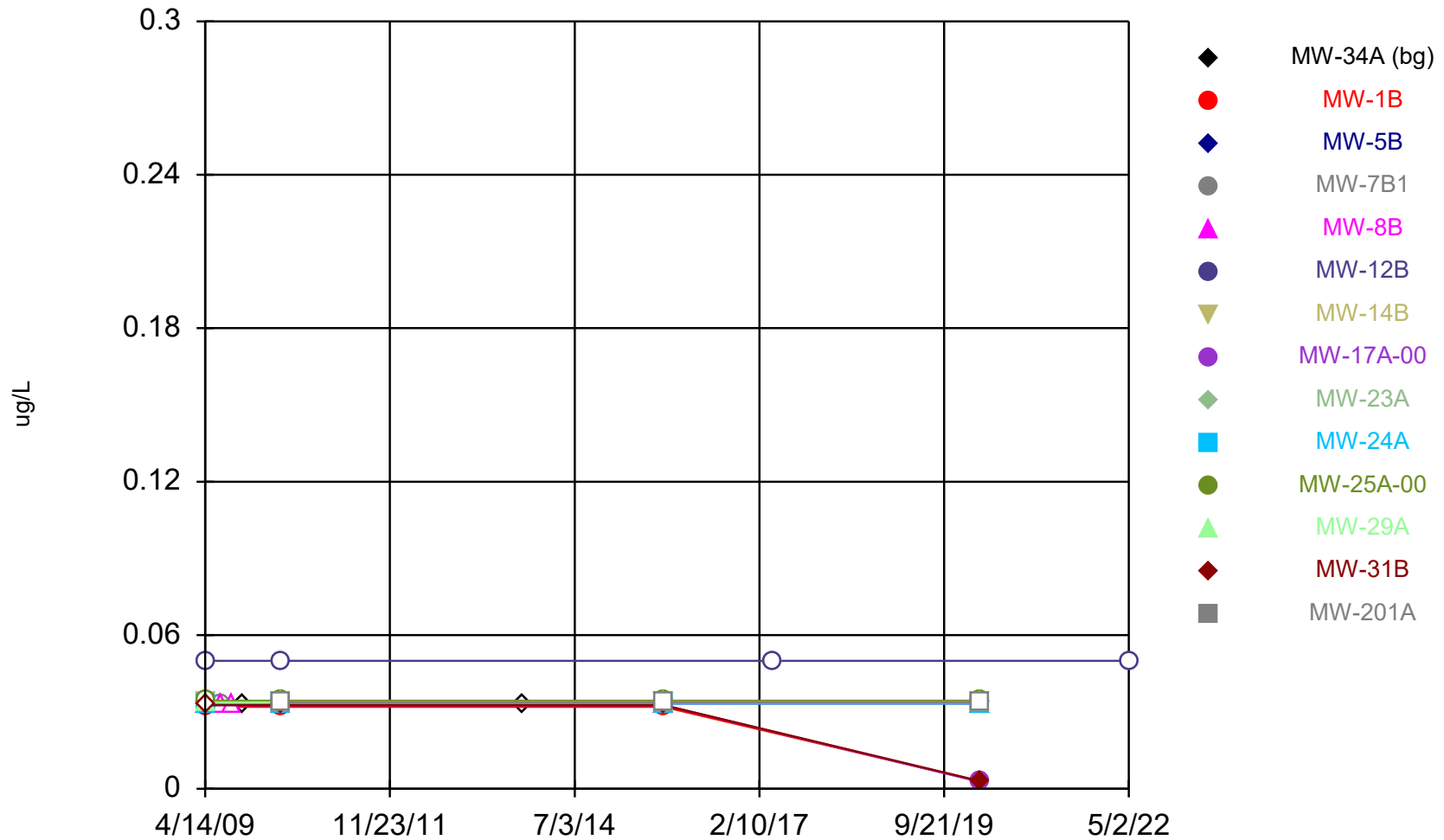
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

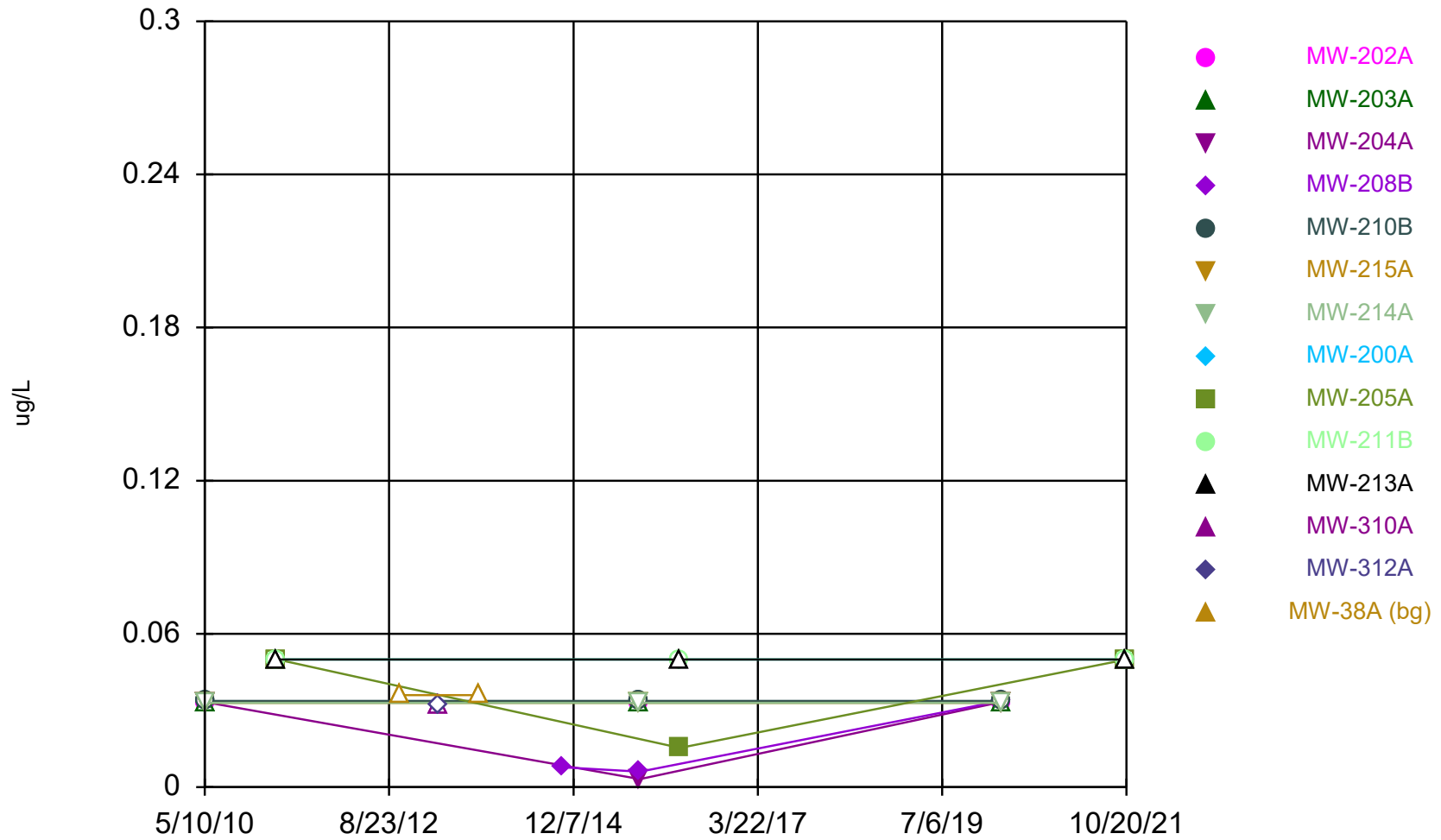
Time Series



Constituent: Delta-BHC Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

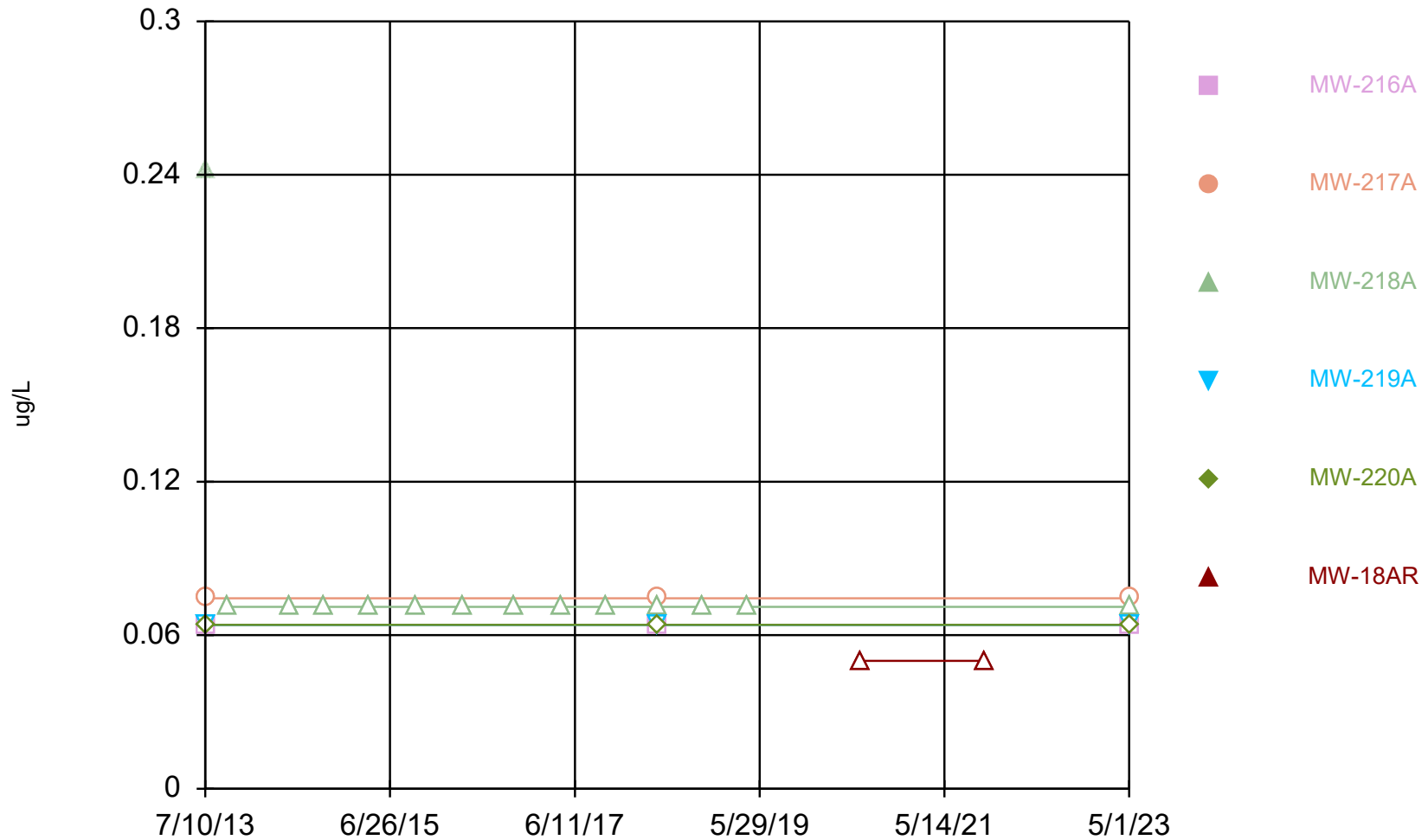
Time Series



Constituent: Delta-BHC Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

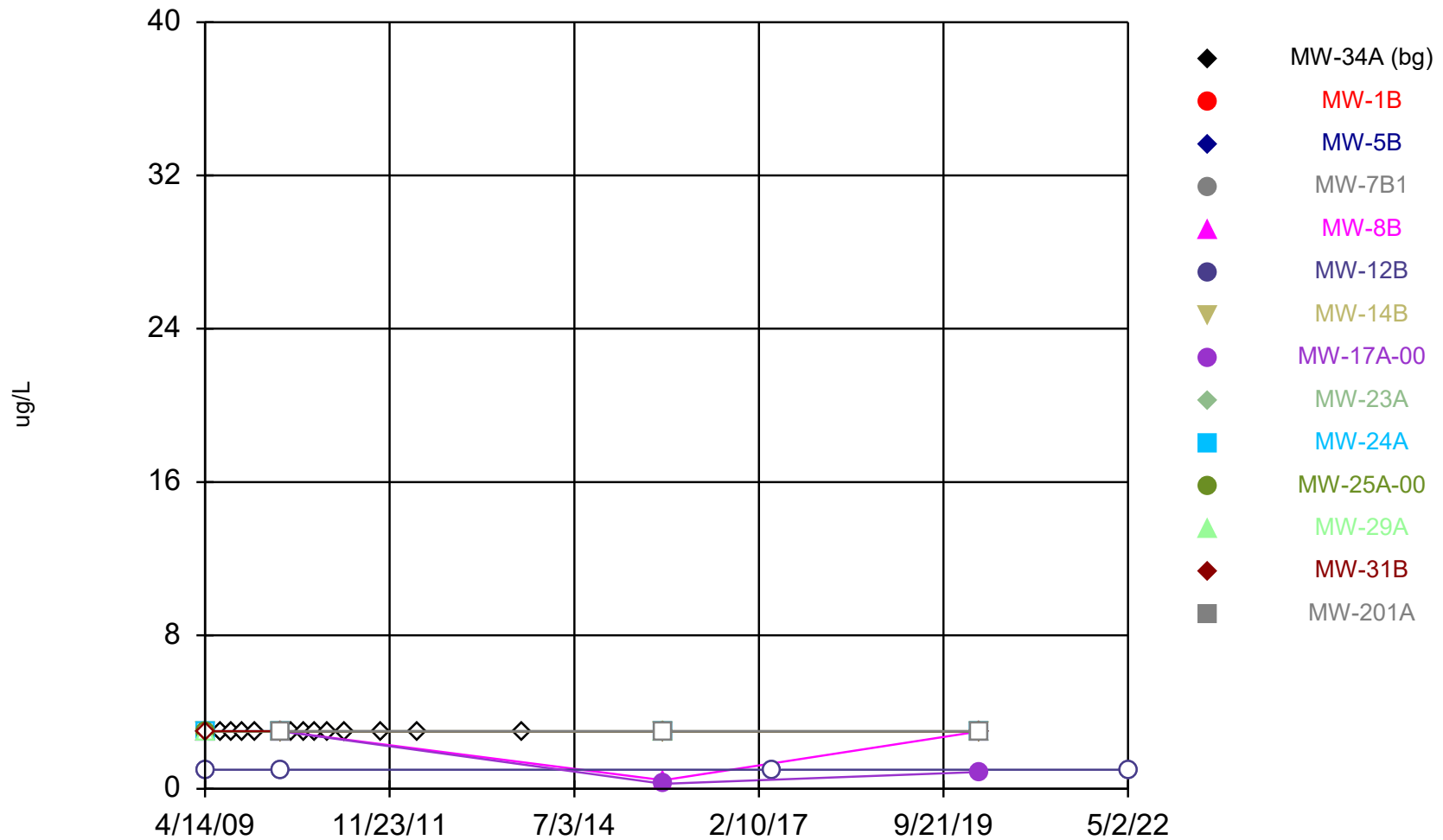
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



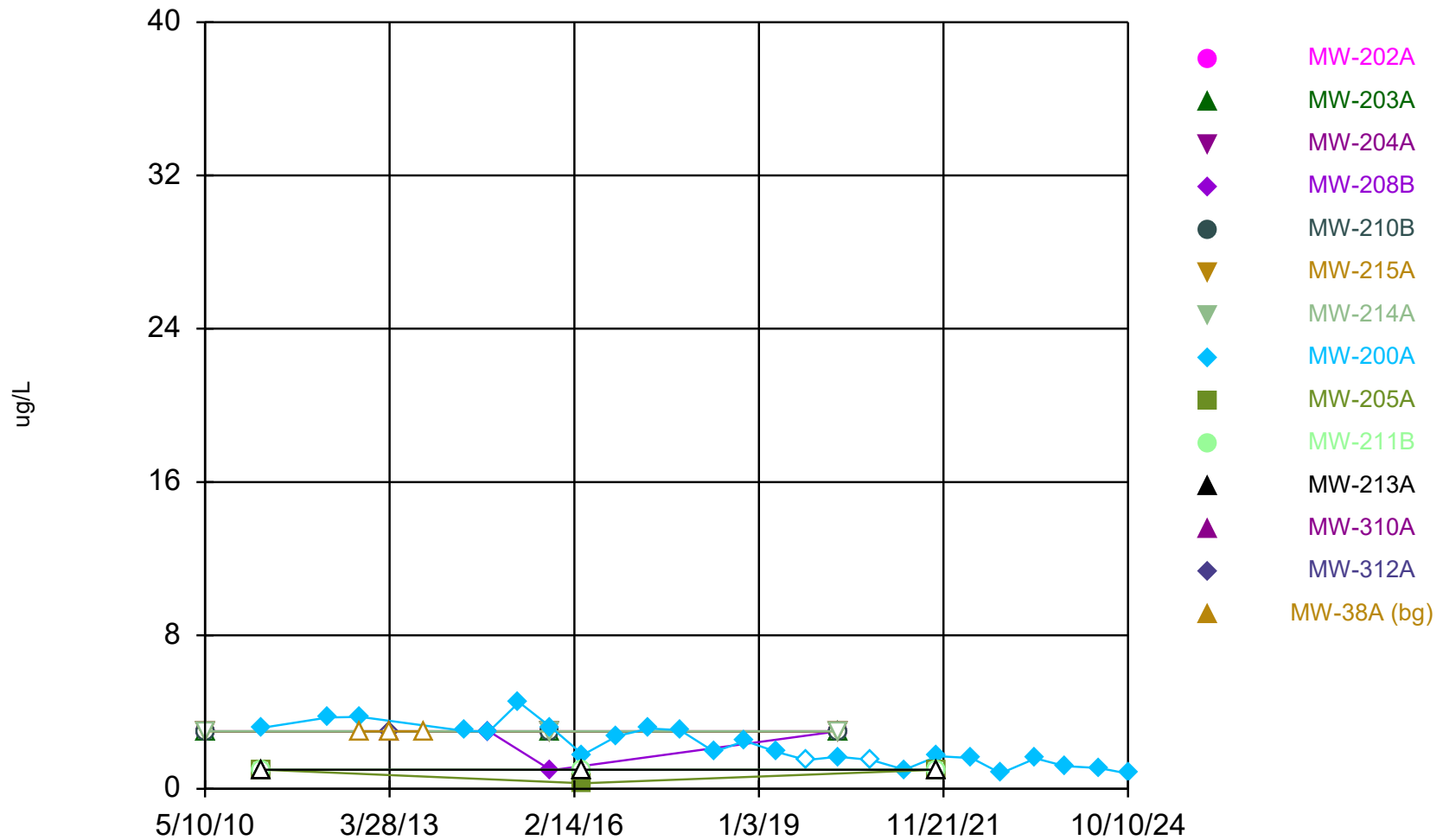
Constituent: Delta-BHC Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



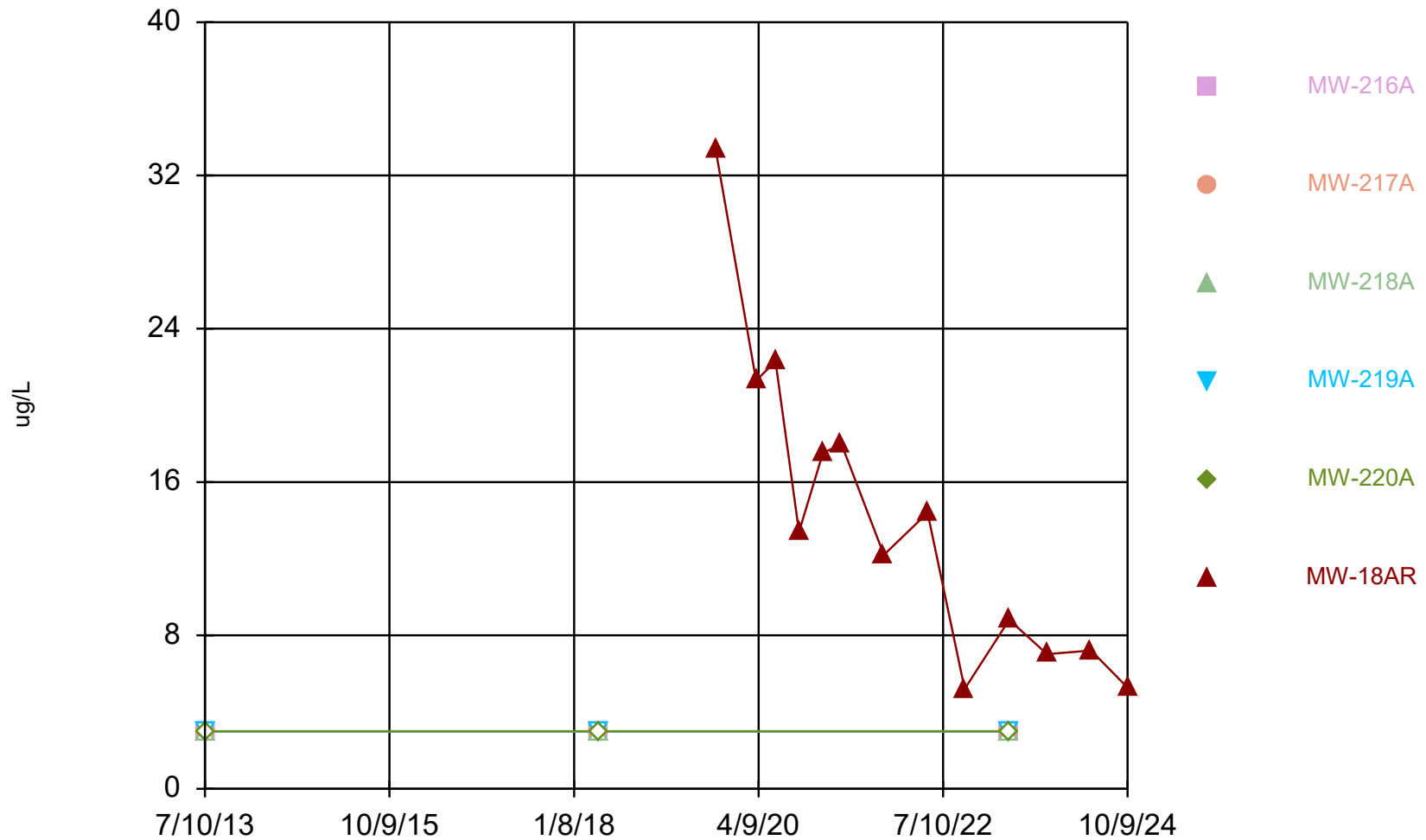
Constituent: Dichlorodifluoromethane Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



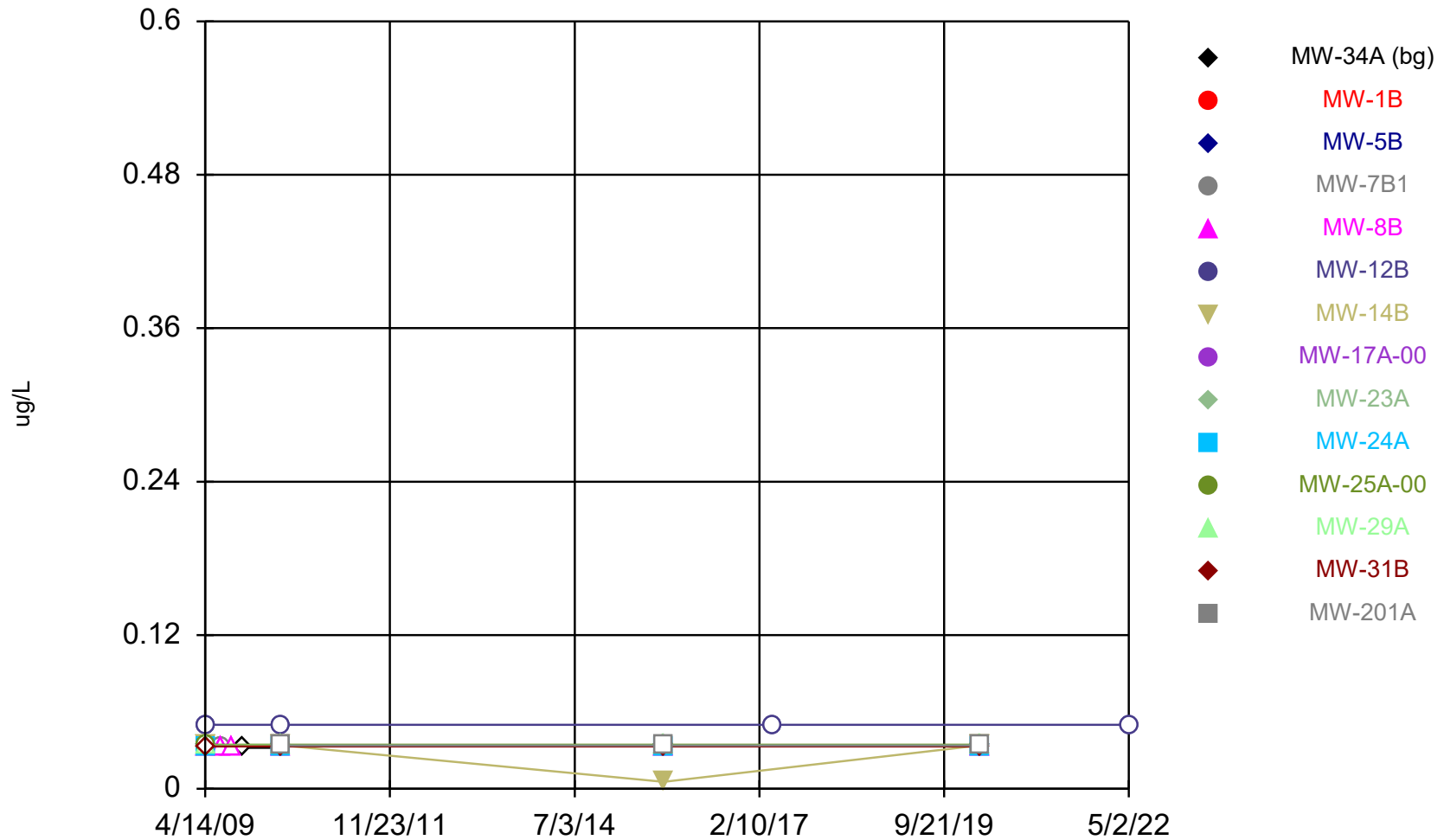
Constituent: Dichlorodifluoromethane Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: Dichlorodifluoromethane Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

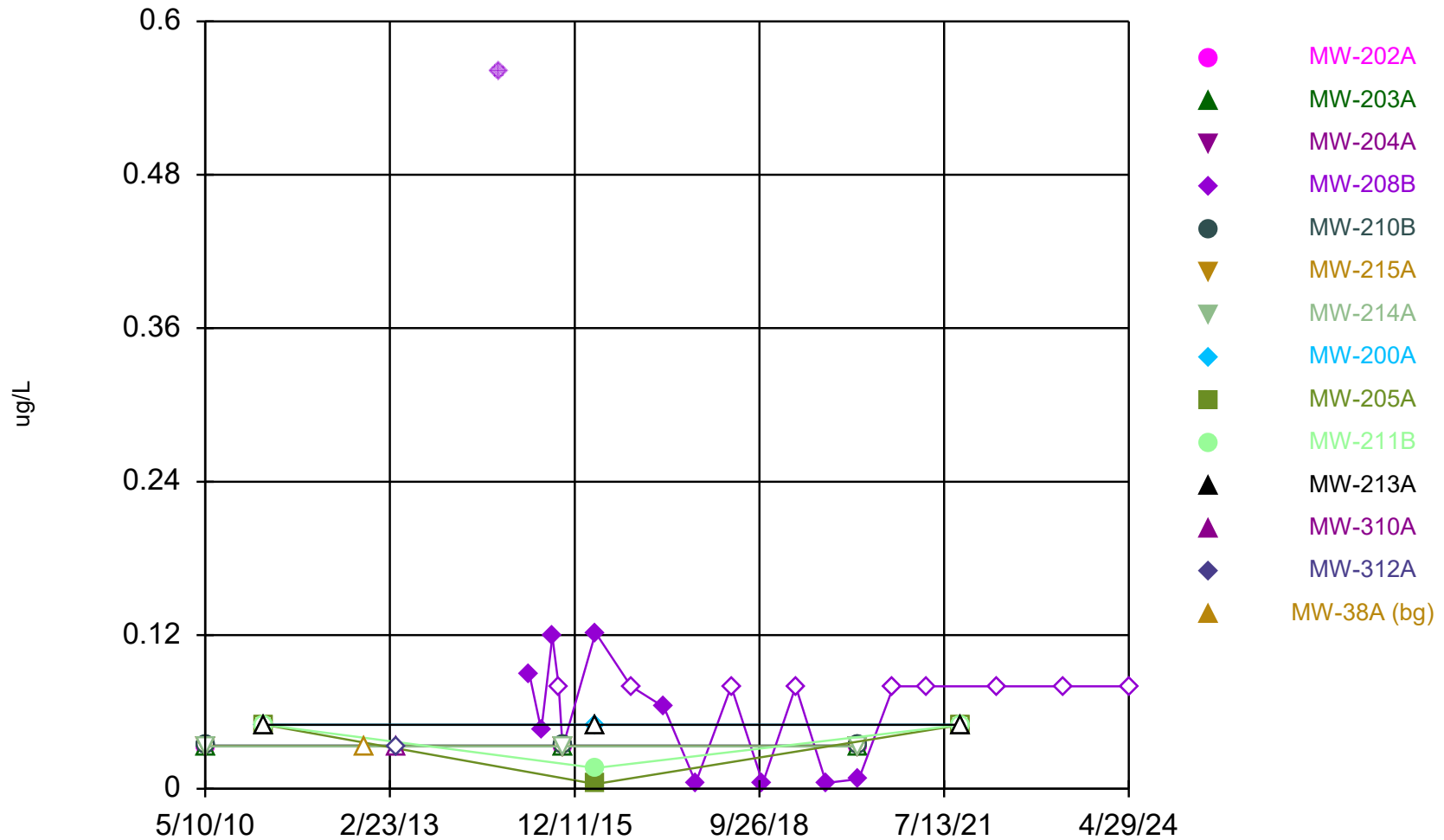
Time Series



Constituent: Endrin Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

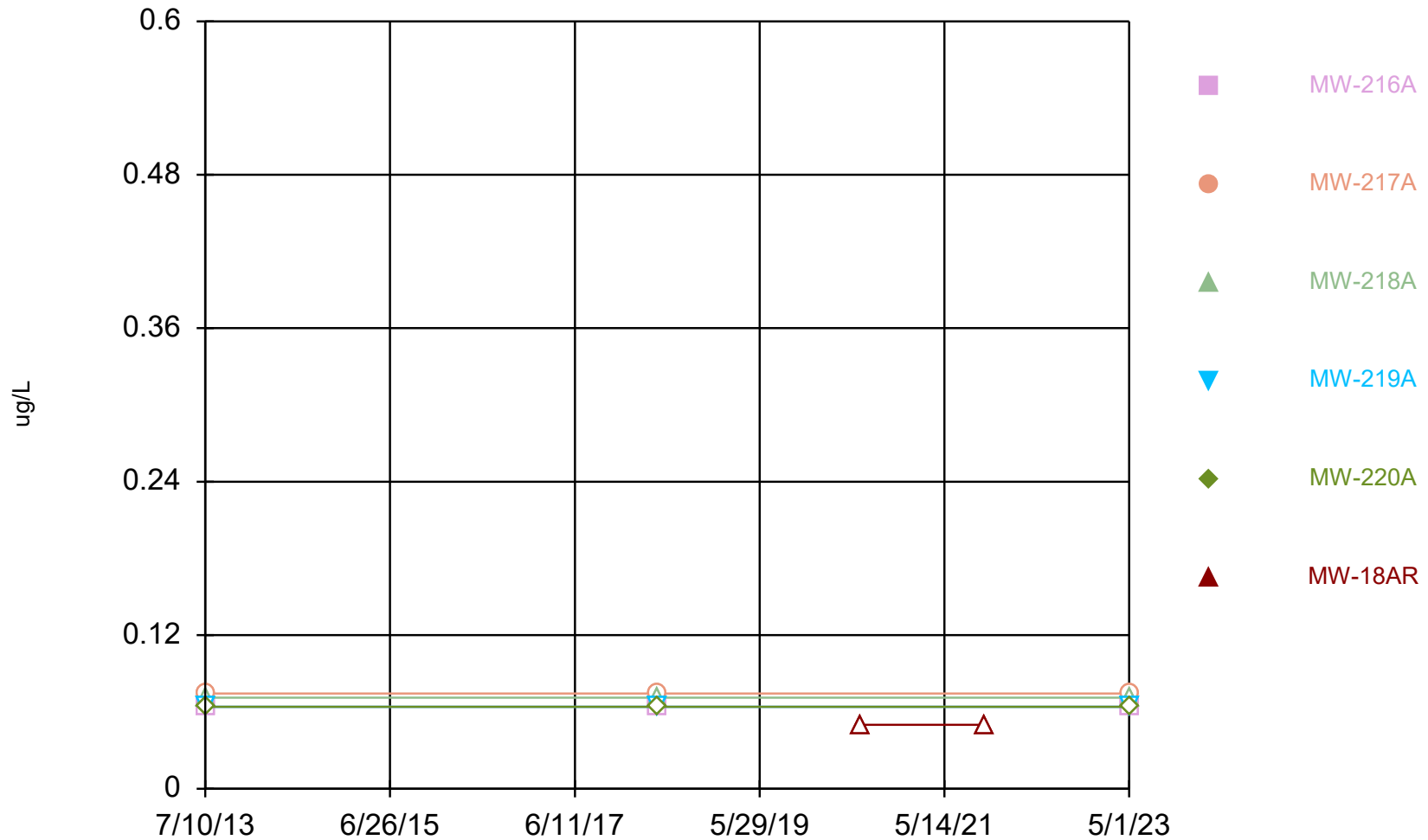
Time Series



Constituent: Endrin Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

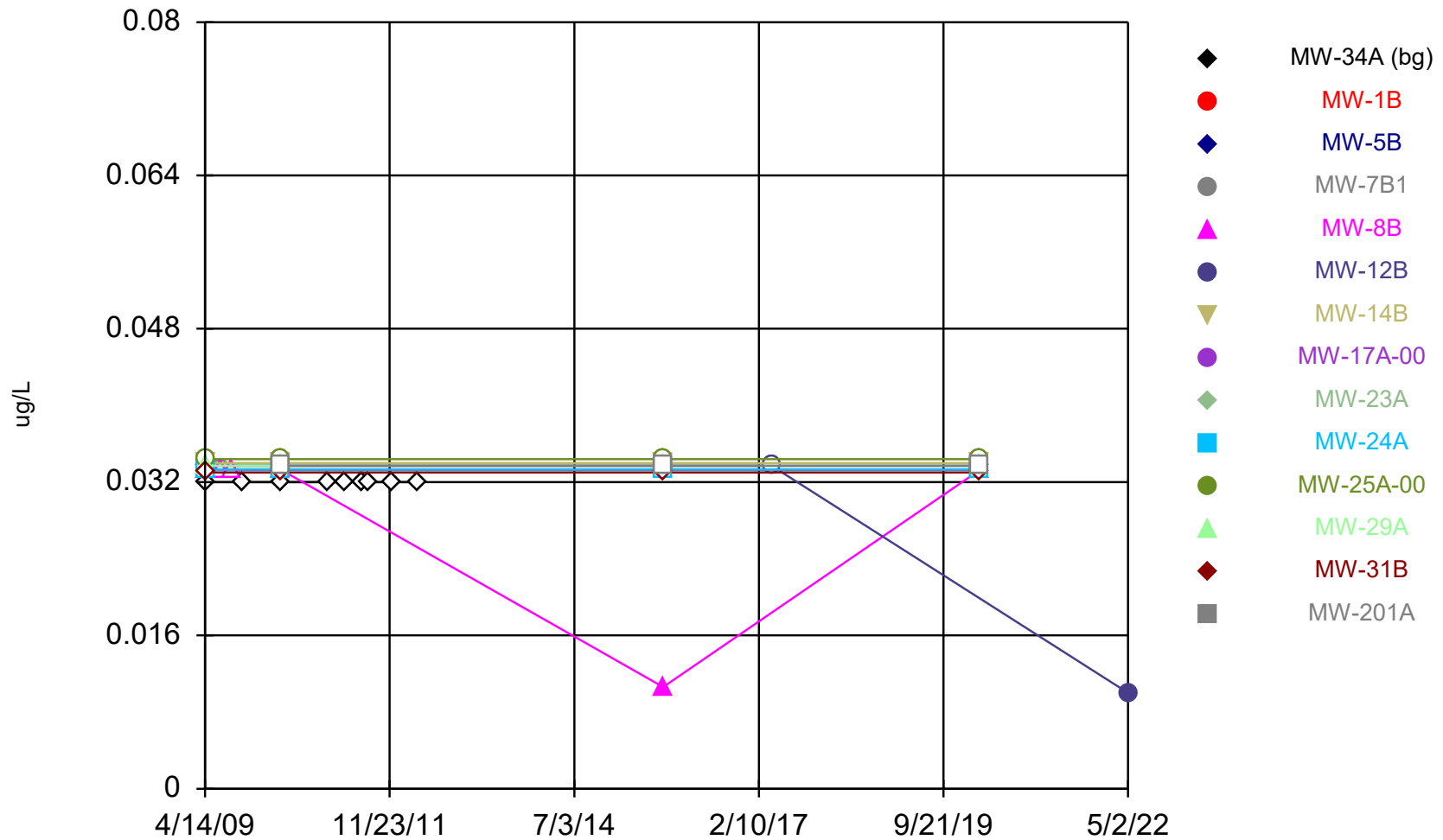
Time Series



Constituent: Endrin Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

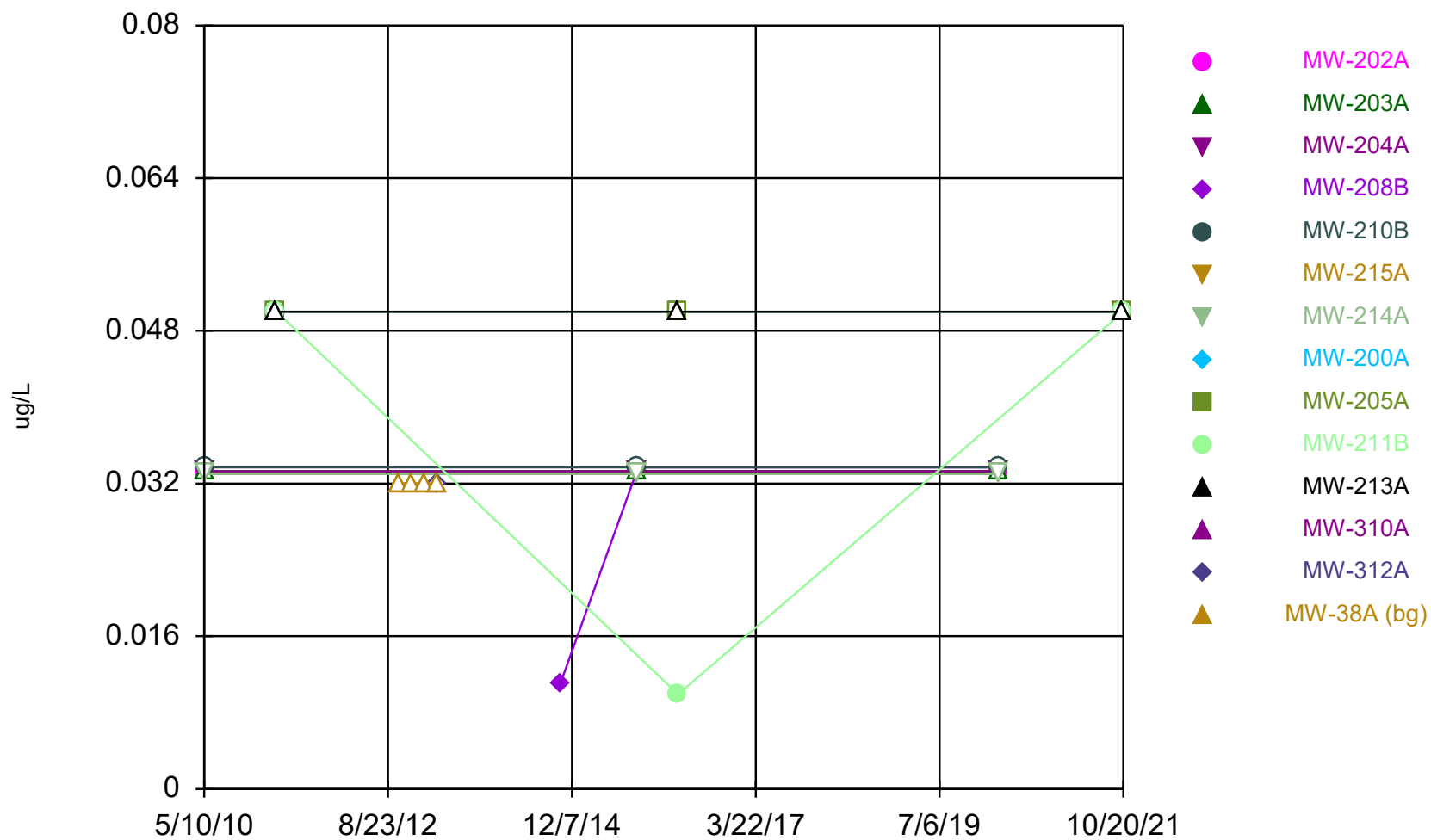
Time Series



Constituent: Endrin aldehyde Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

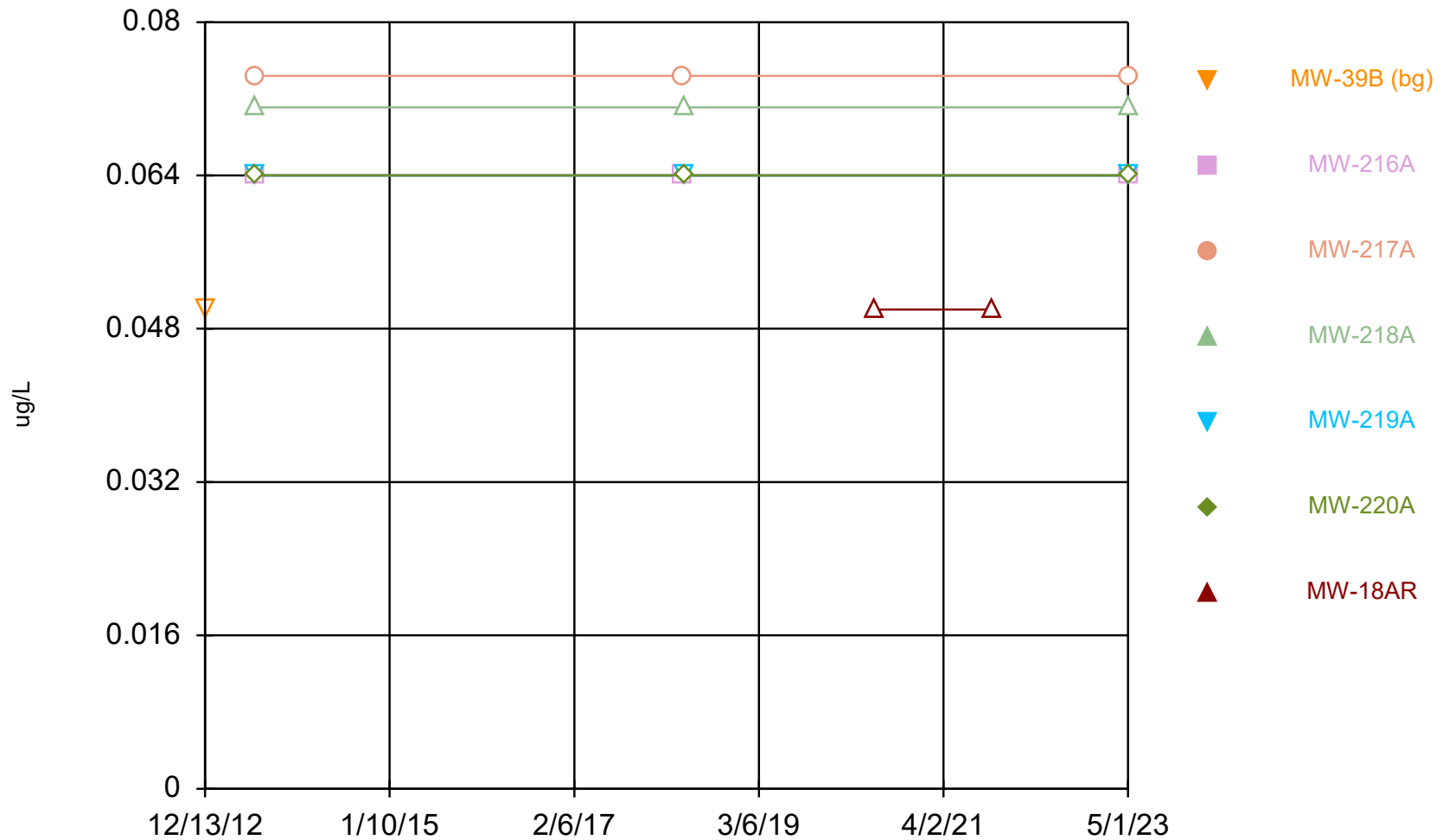
Time Series



Constituent: Endrin aldehyde Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

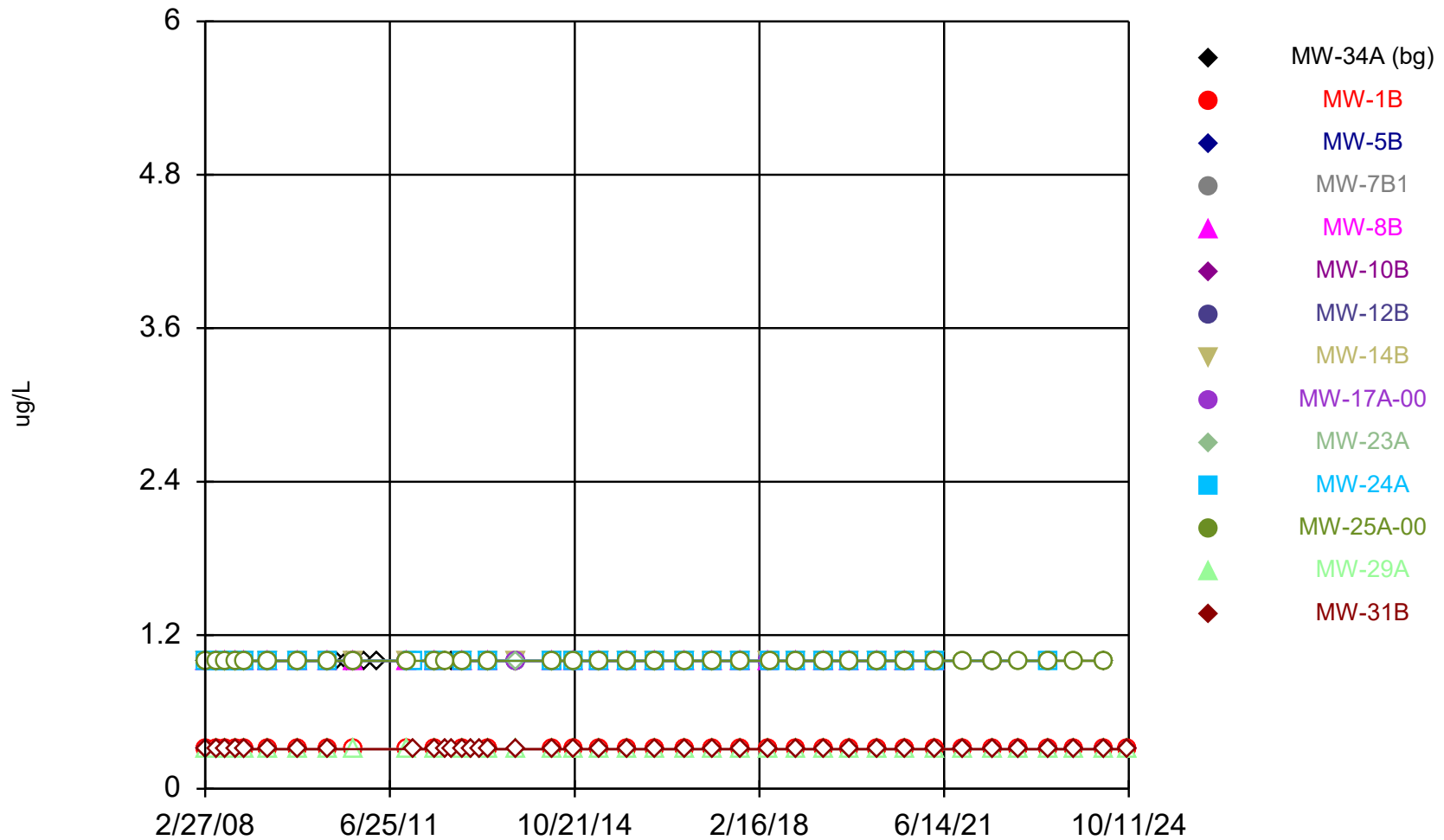
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: Endrin aldehyde Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

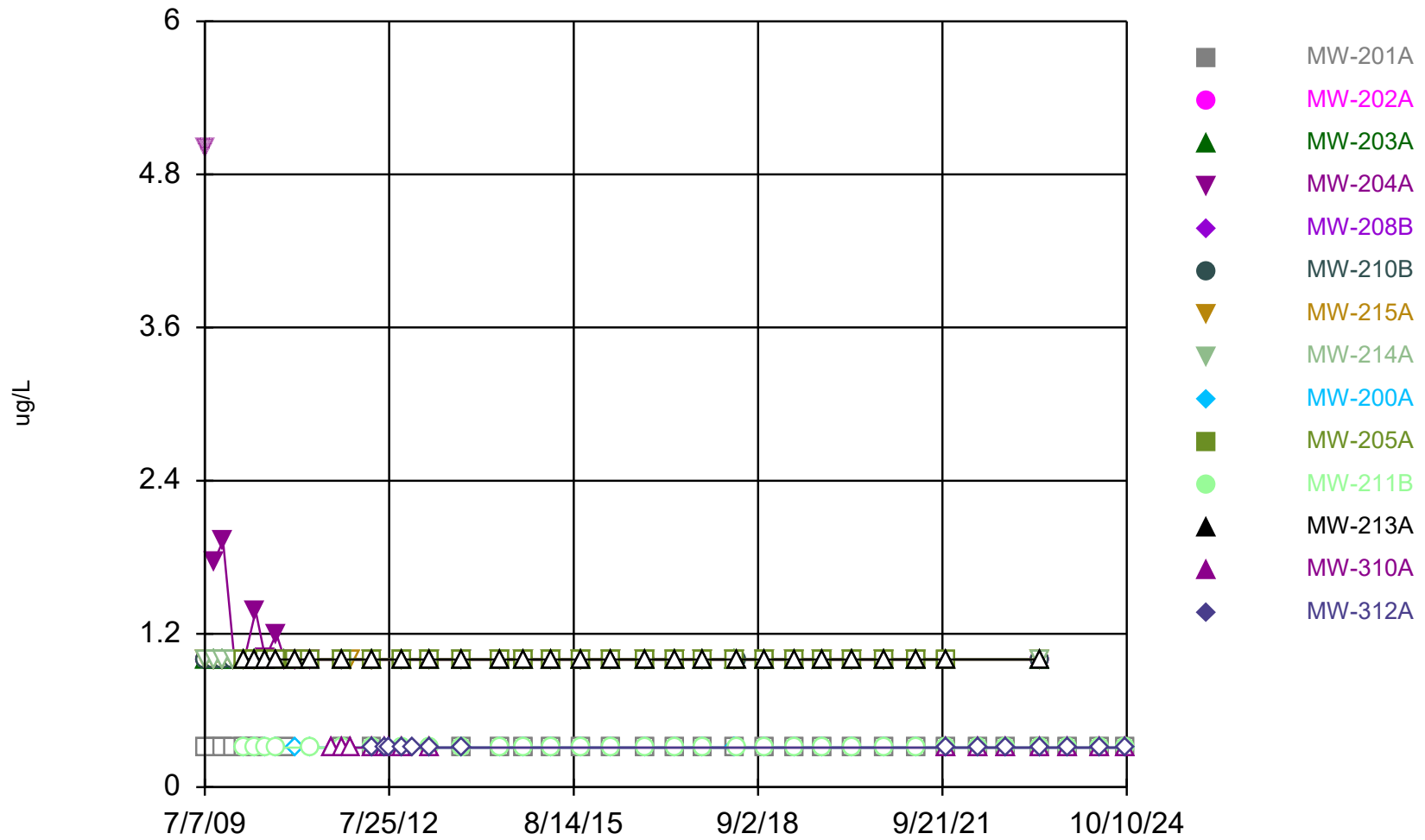
Time Series



Constituent: Ethylbenzene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

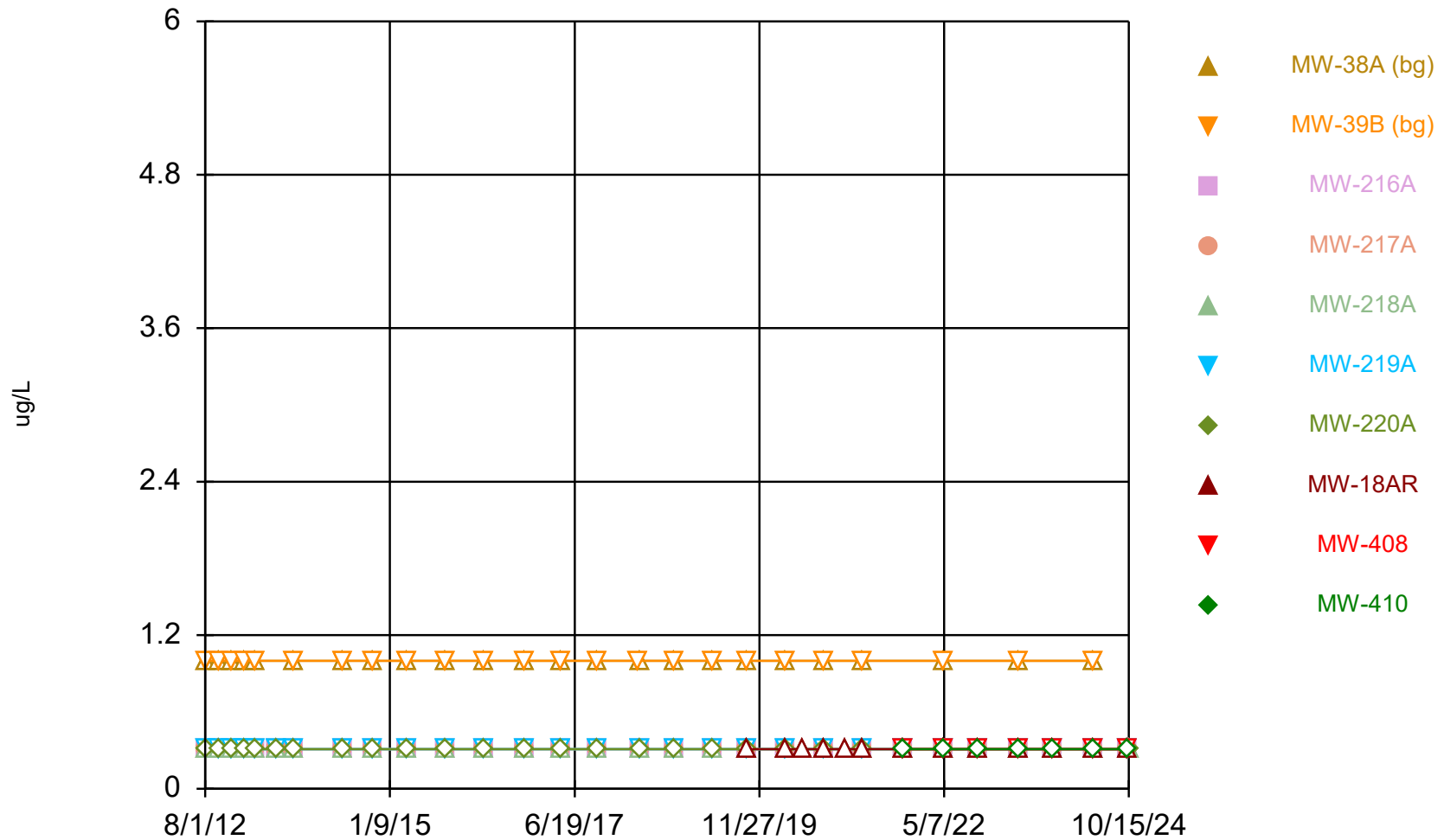
Time Series



Constituent: Ethylbenzene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

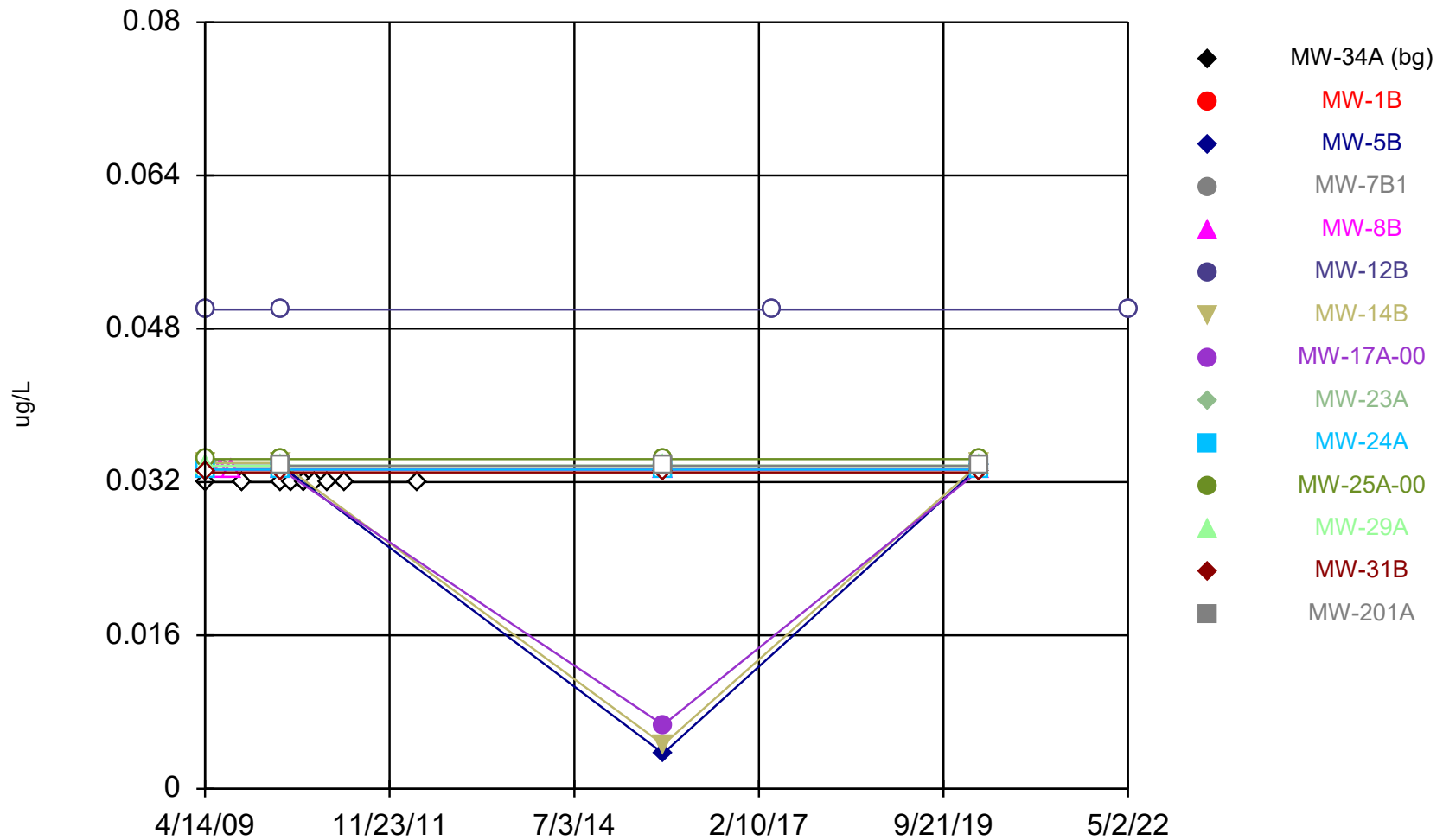
Time Series



Constituent: Ethylbenzene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

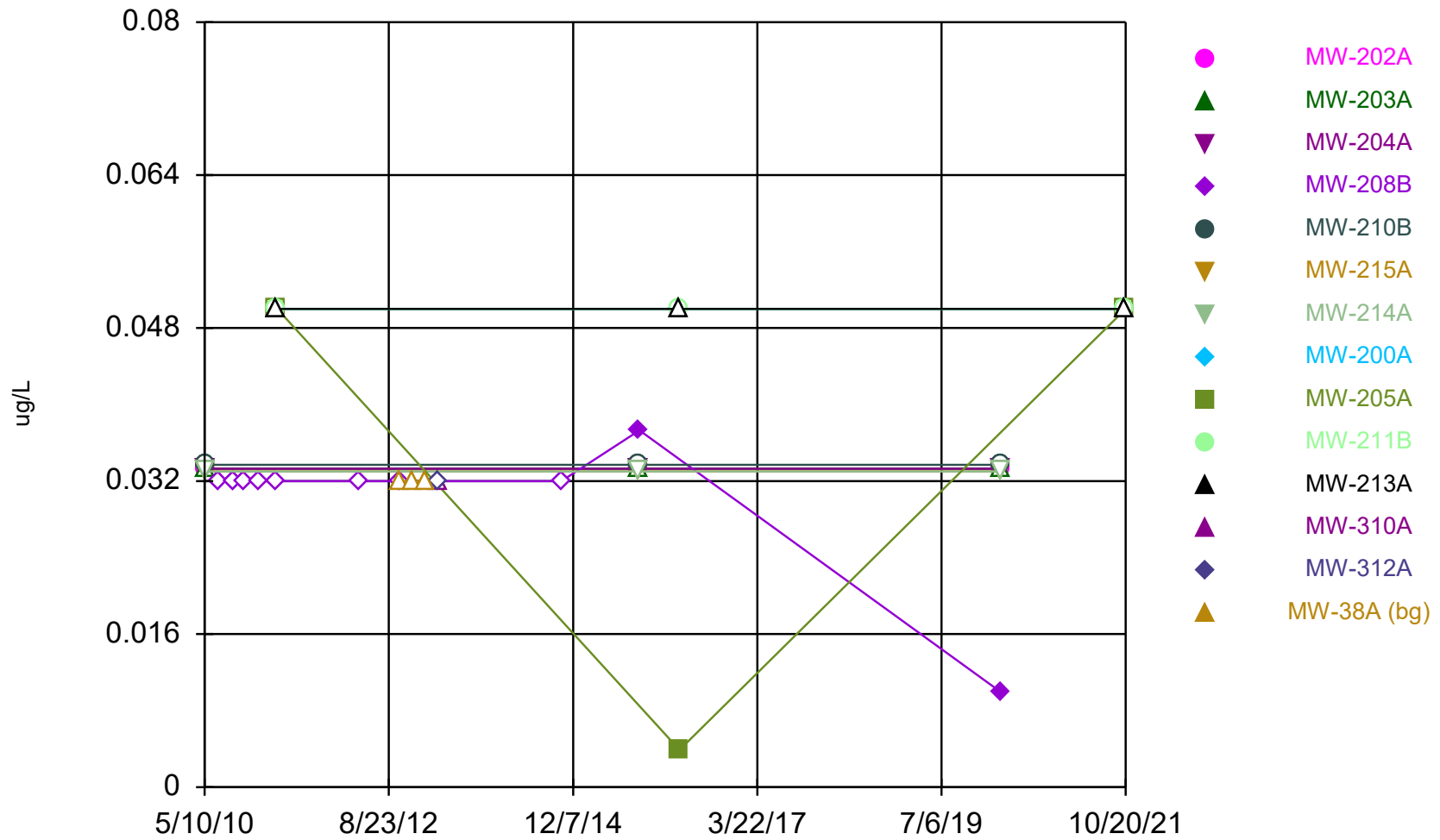
Time Series



Constituent: Heptachlor Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

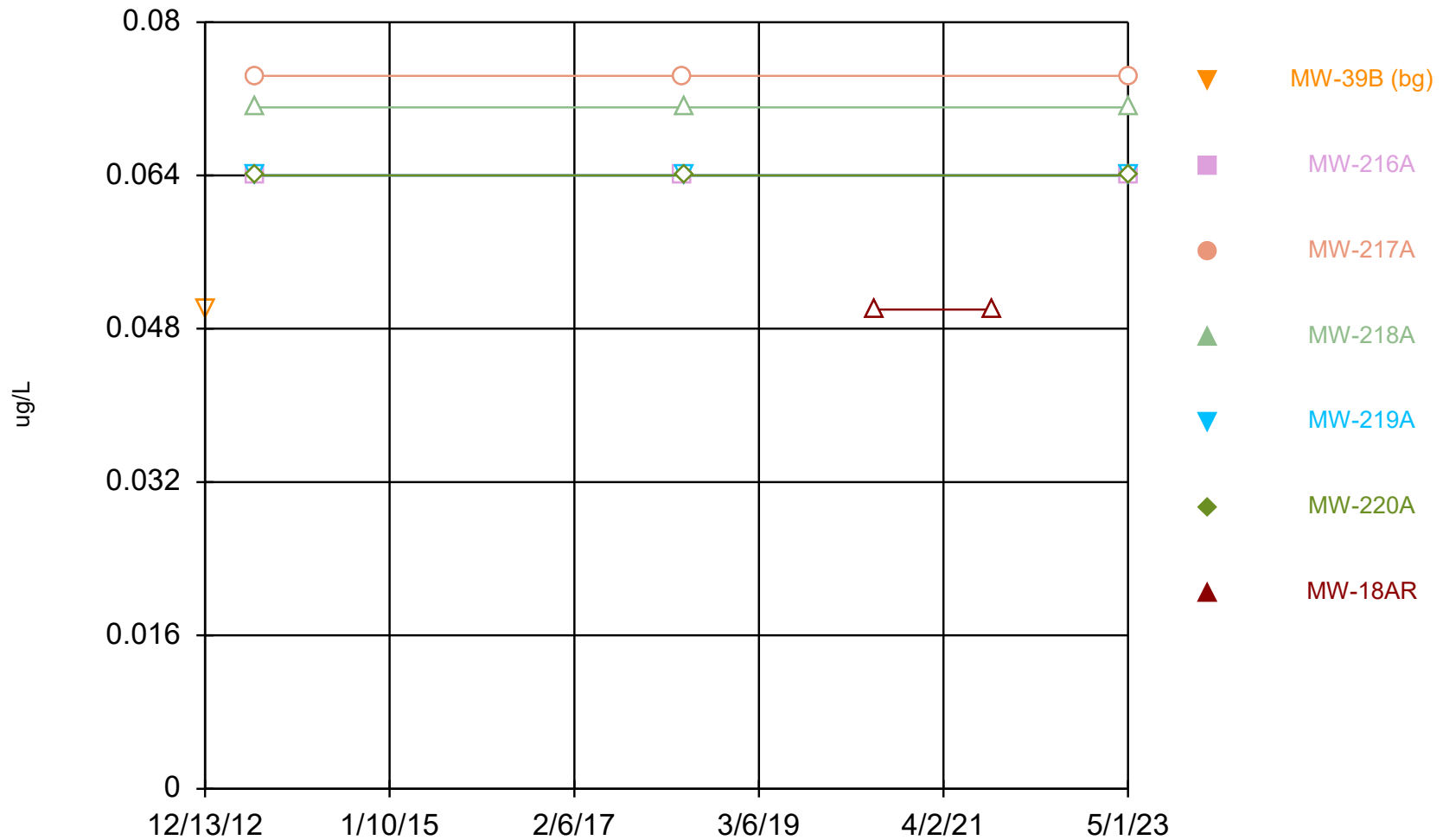
Time Series



Constituent: Heptachlor Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

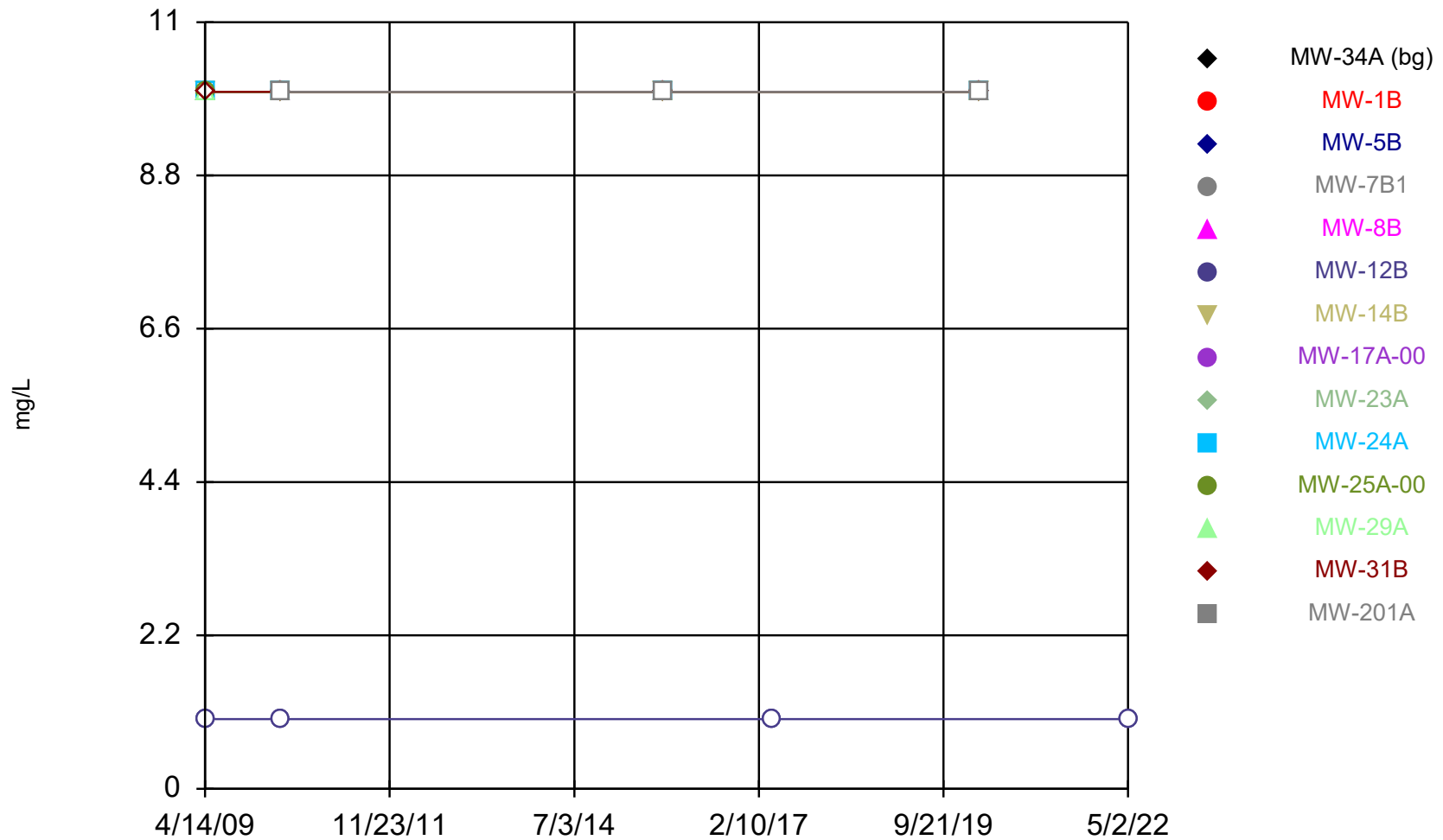
Time Series



Constituent: Heptachlor Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

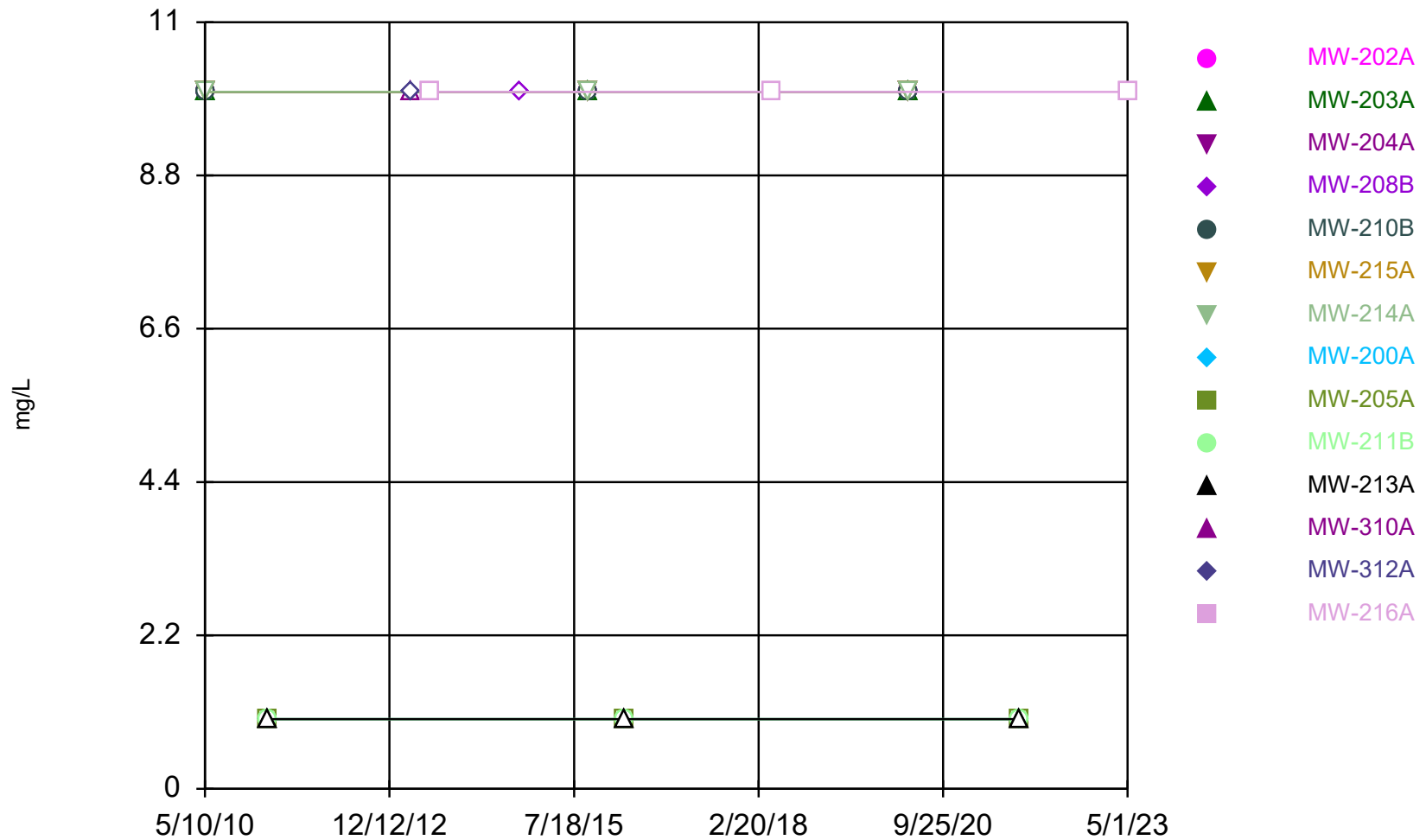
Time Series



Constituent: Isobutanol Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

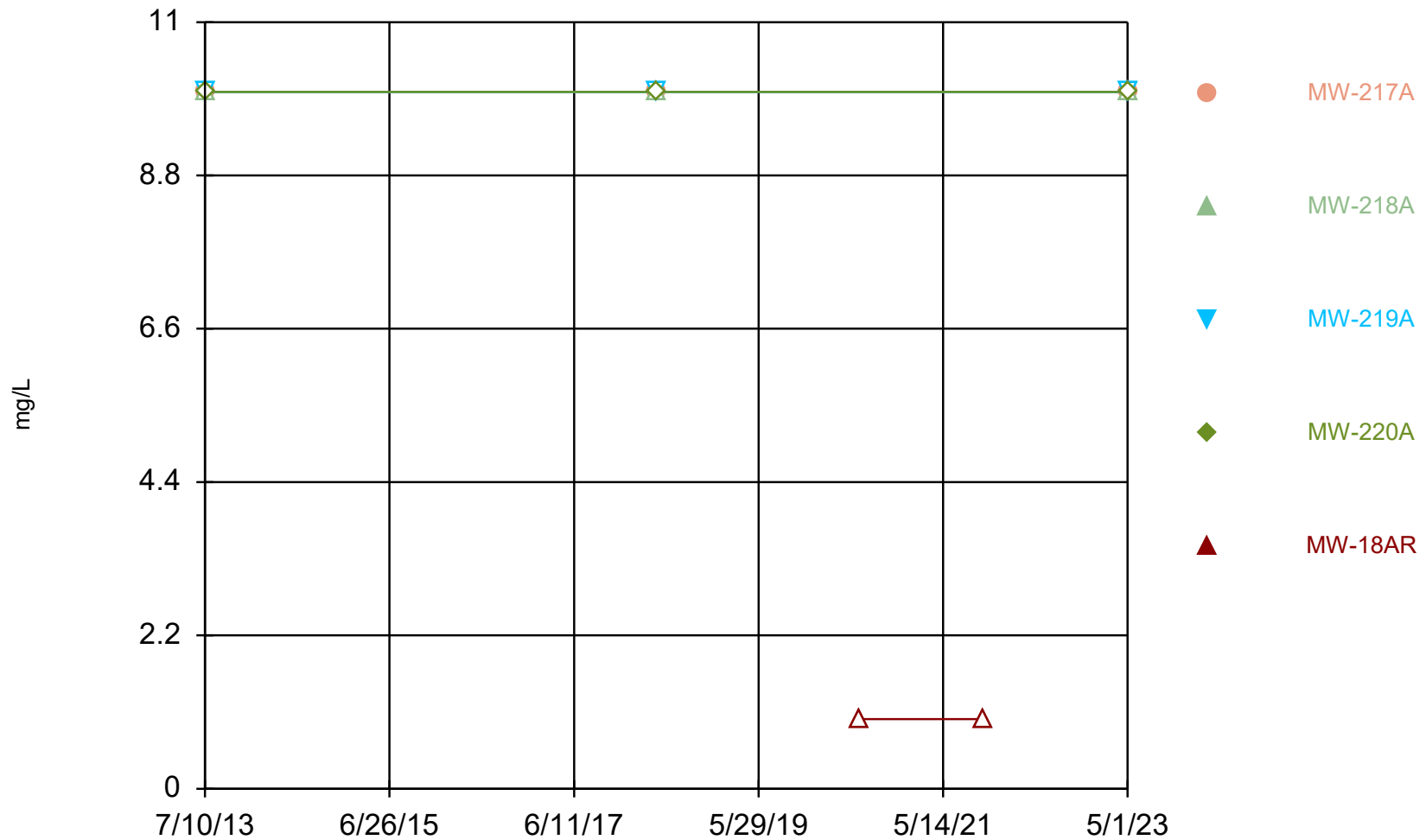
Time Series



Constituent: Isobutanol Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

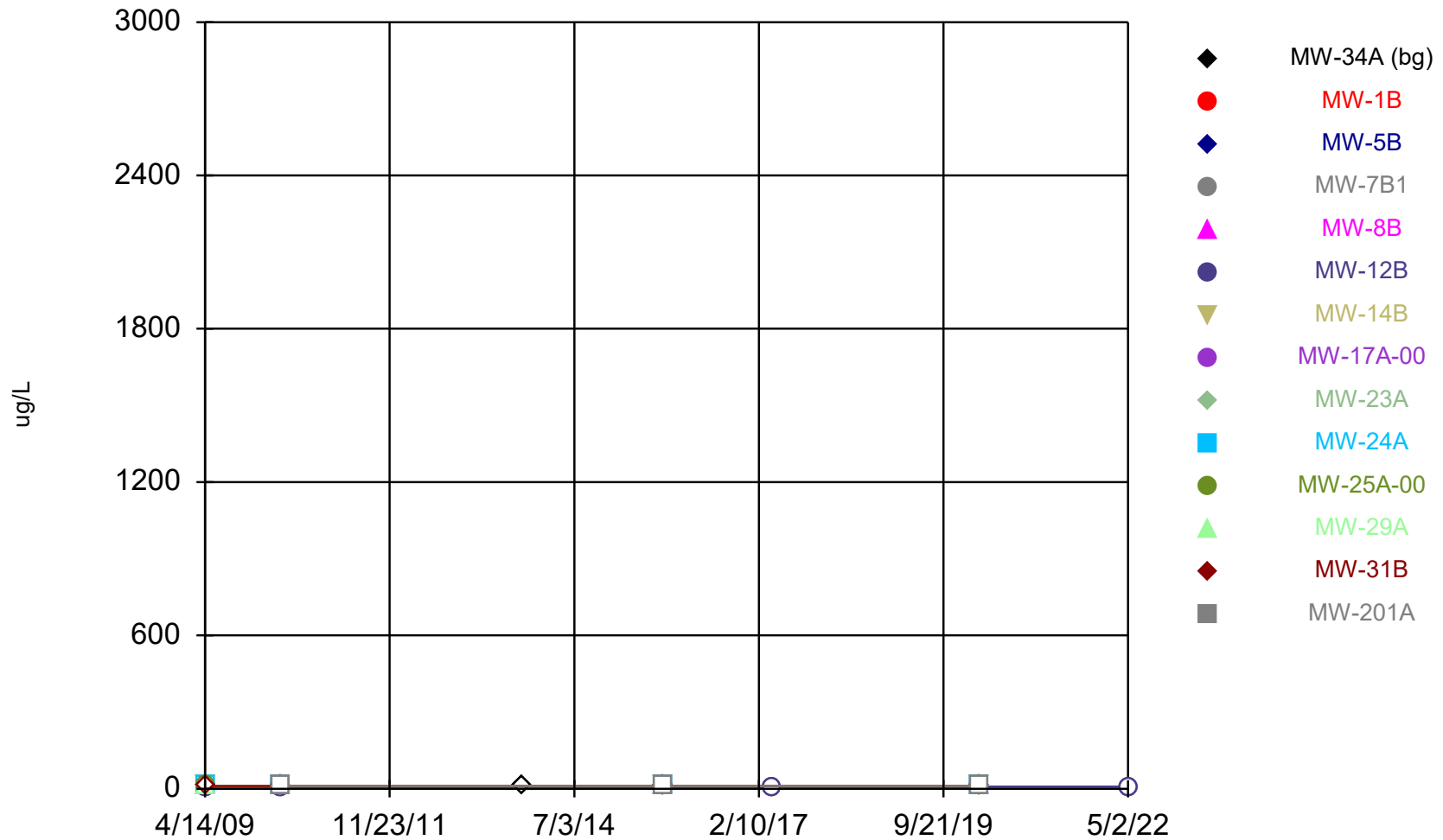
Time Series



Constituent: Isobutanol Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

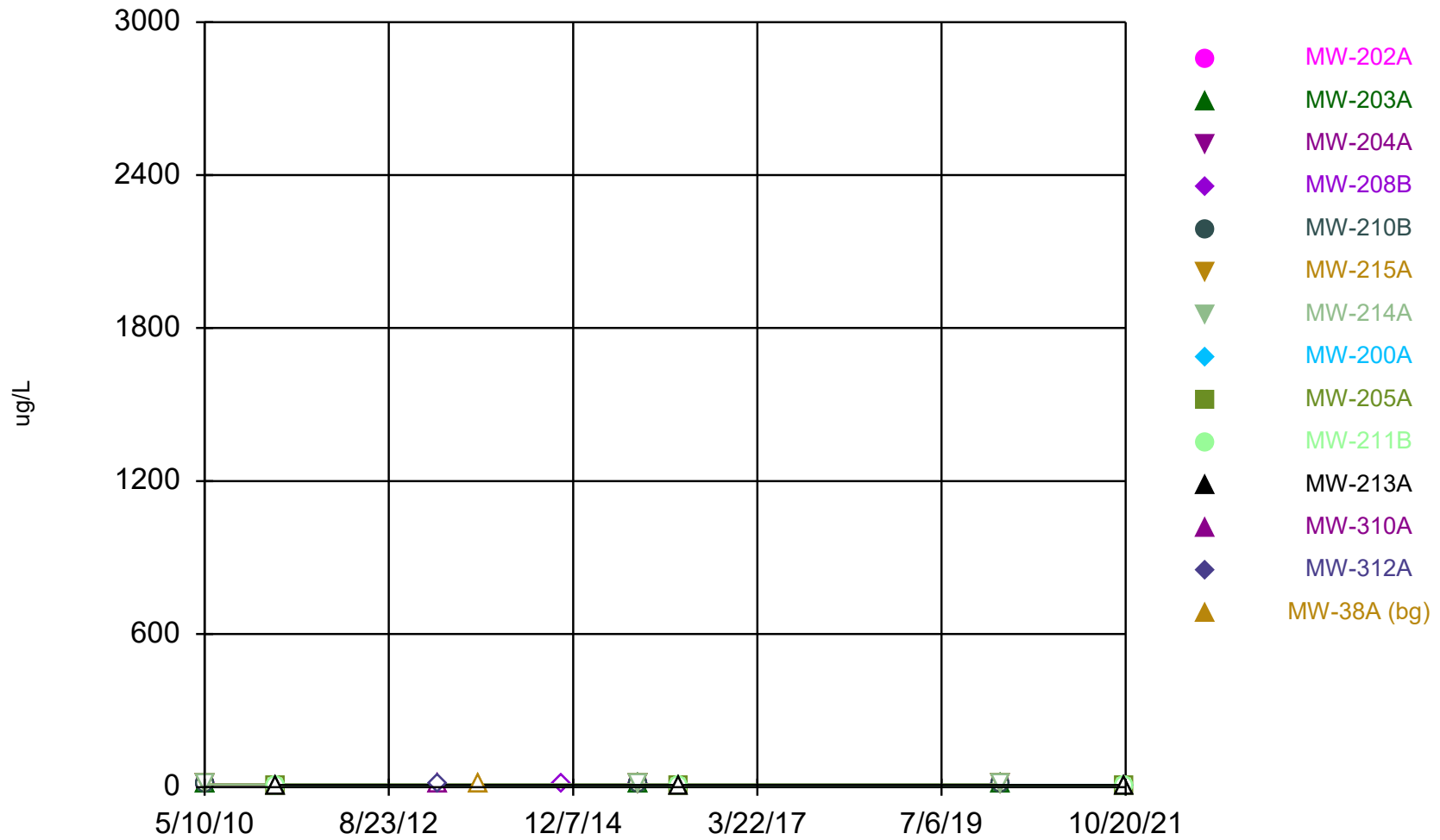
Time Series



Constituent: m/p-Cresol Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

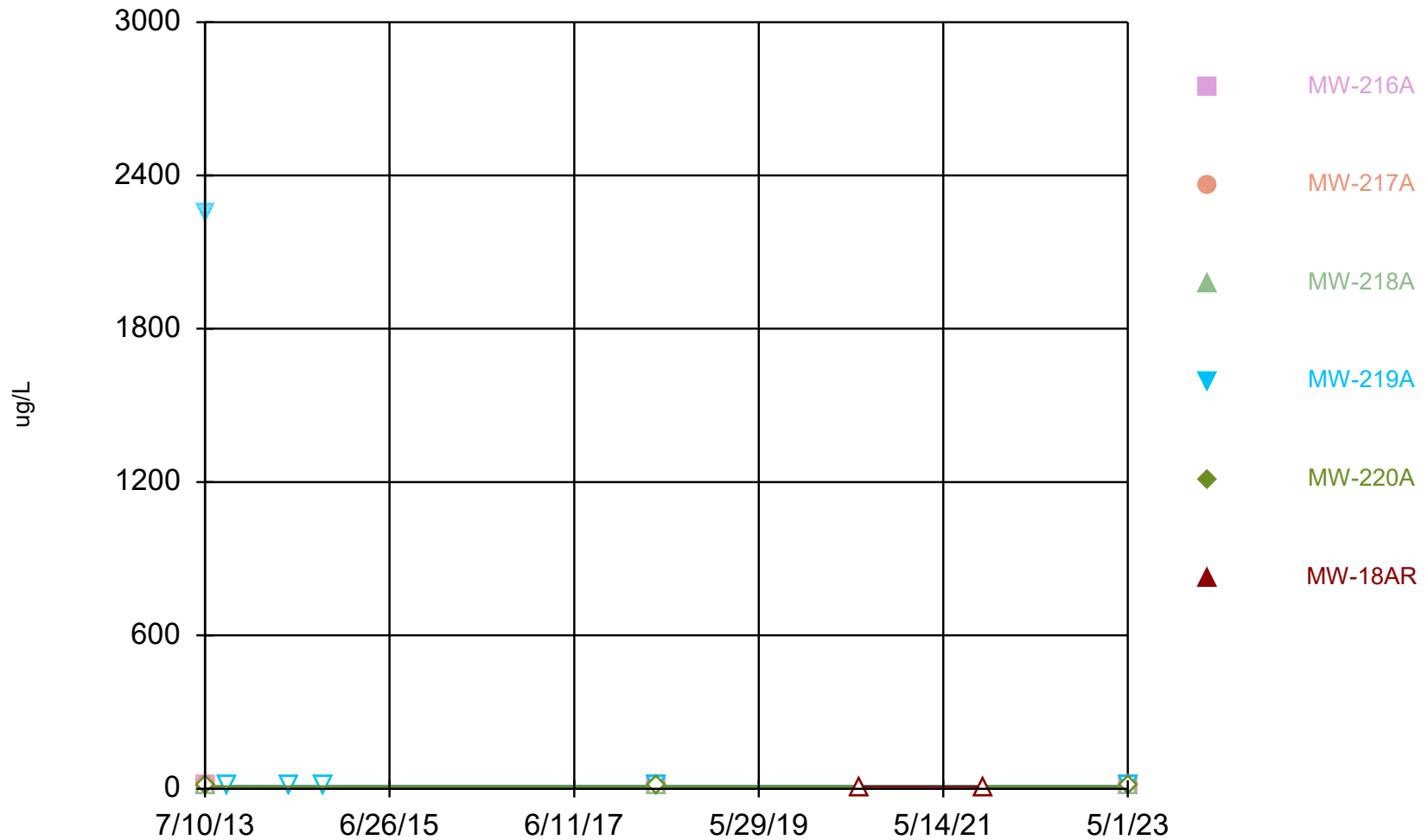
Time Series



Constituent: m/p-Cresol Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

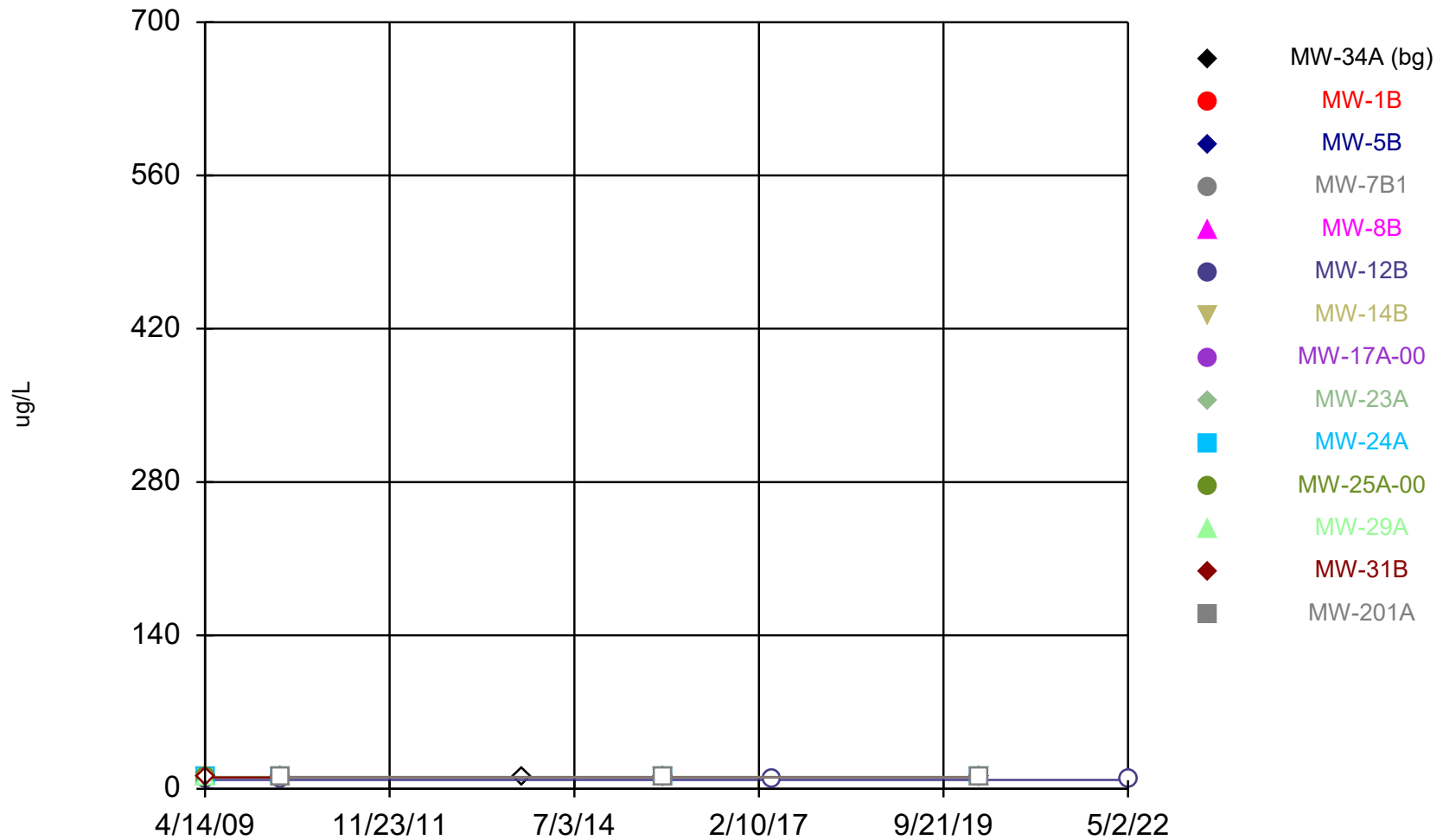
Time Series



Constituent: m/p-Cresol Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

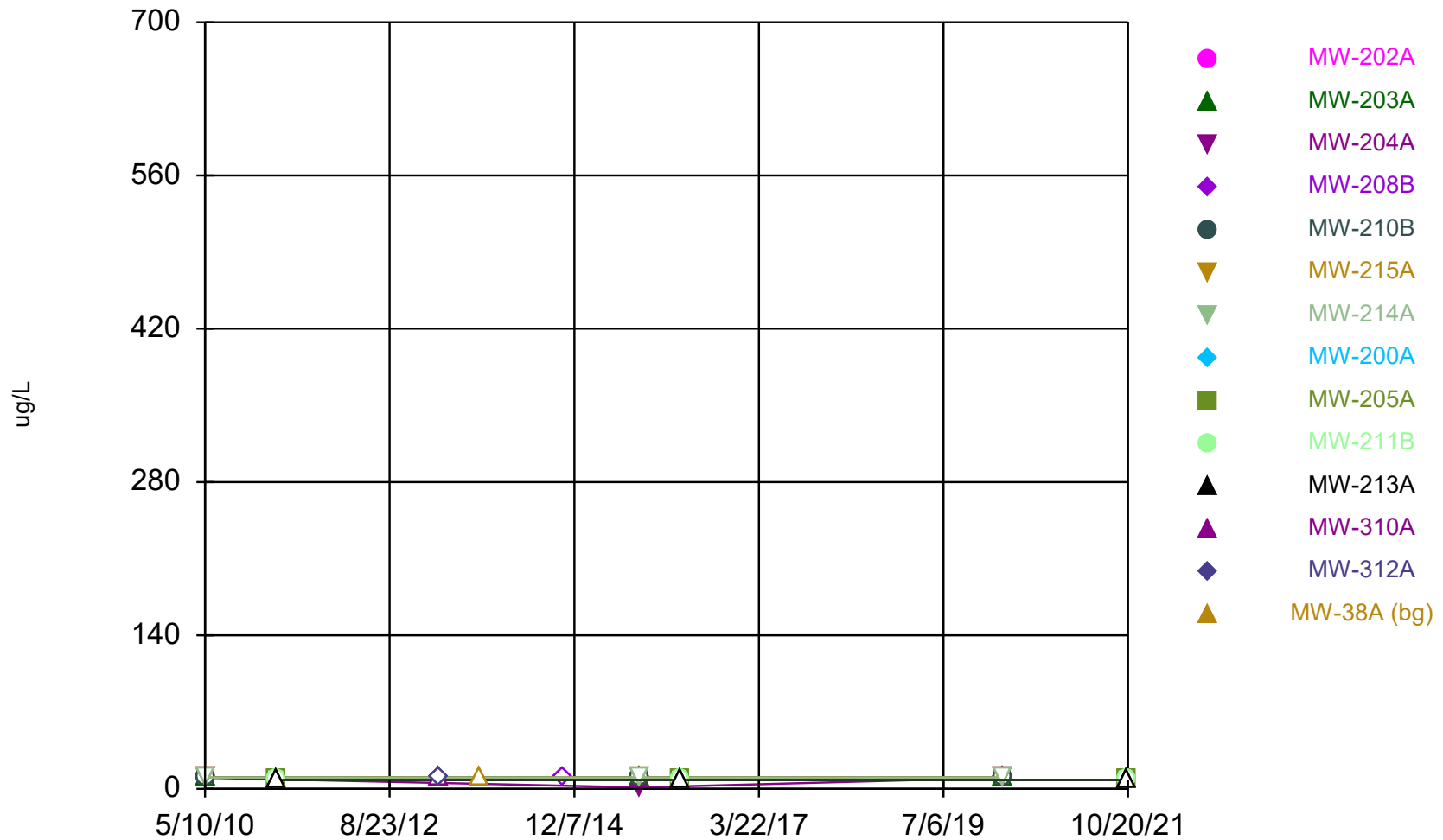
Time Series



Constituent: O-Toluidine Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

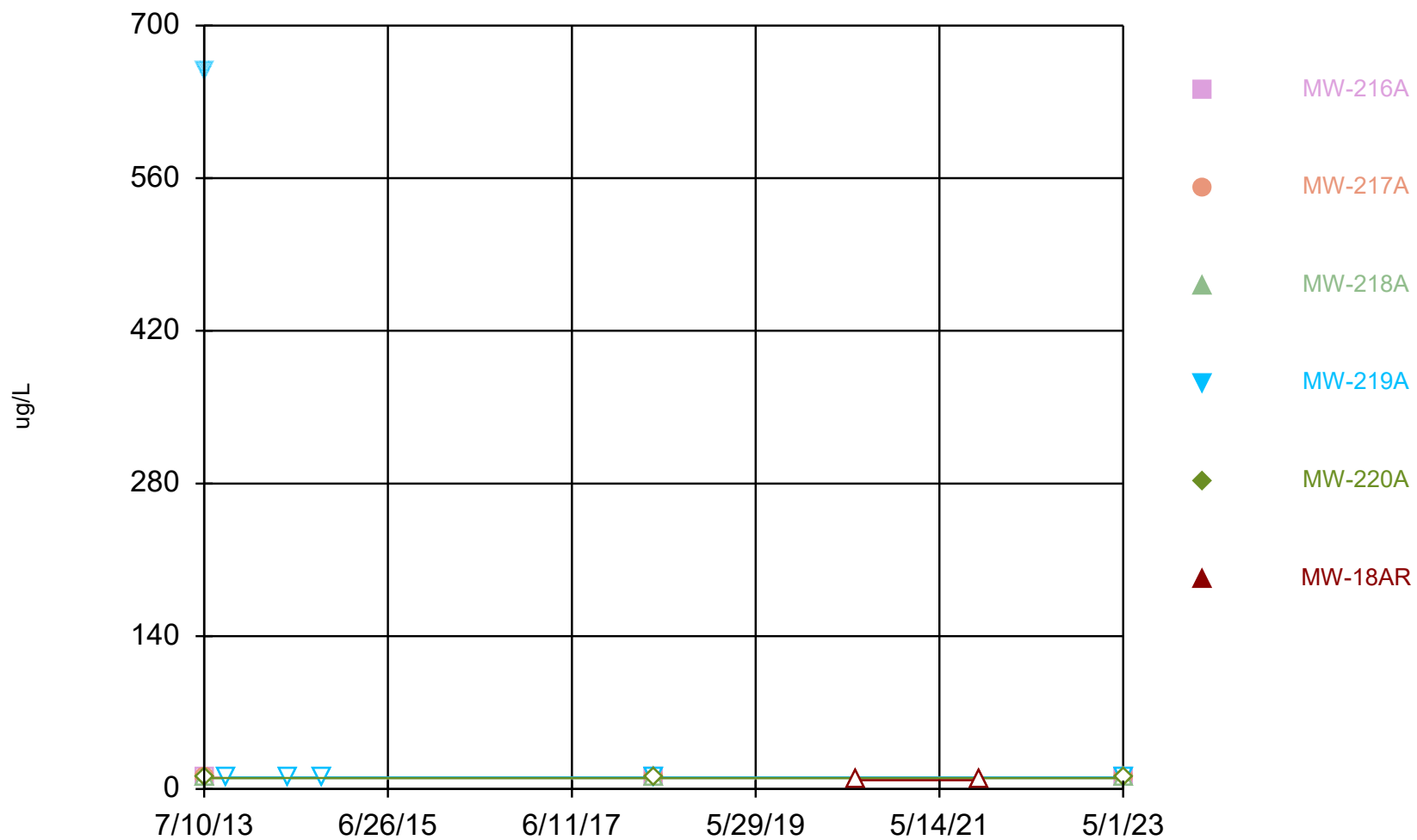
Time Series



Constituent: O-Toluidine Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

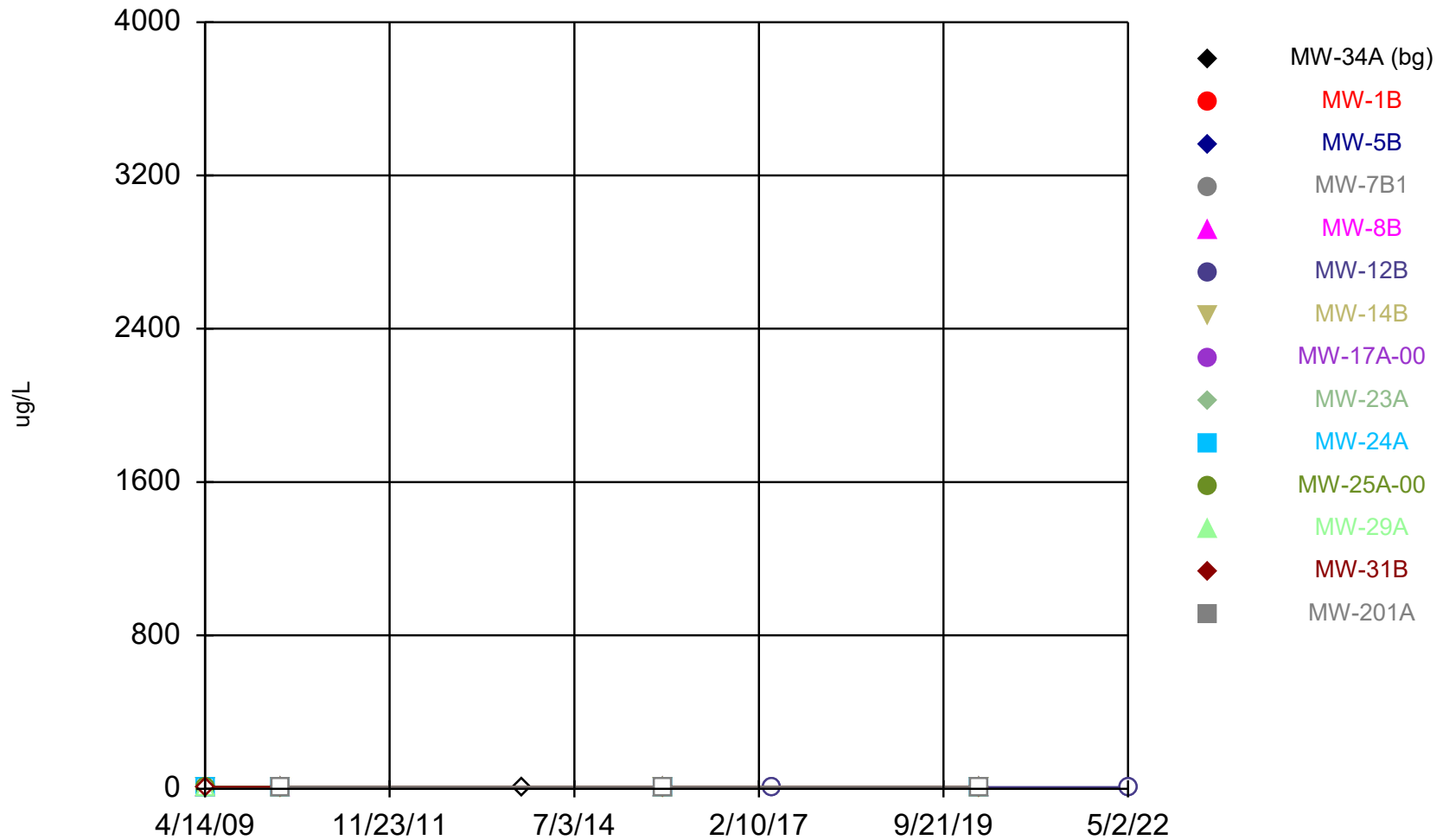
Time Series



Constituent: O-Toluidine Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

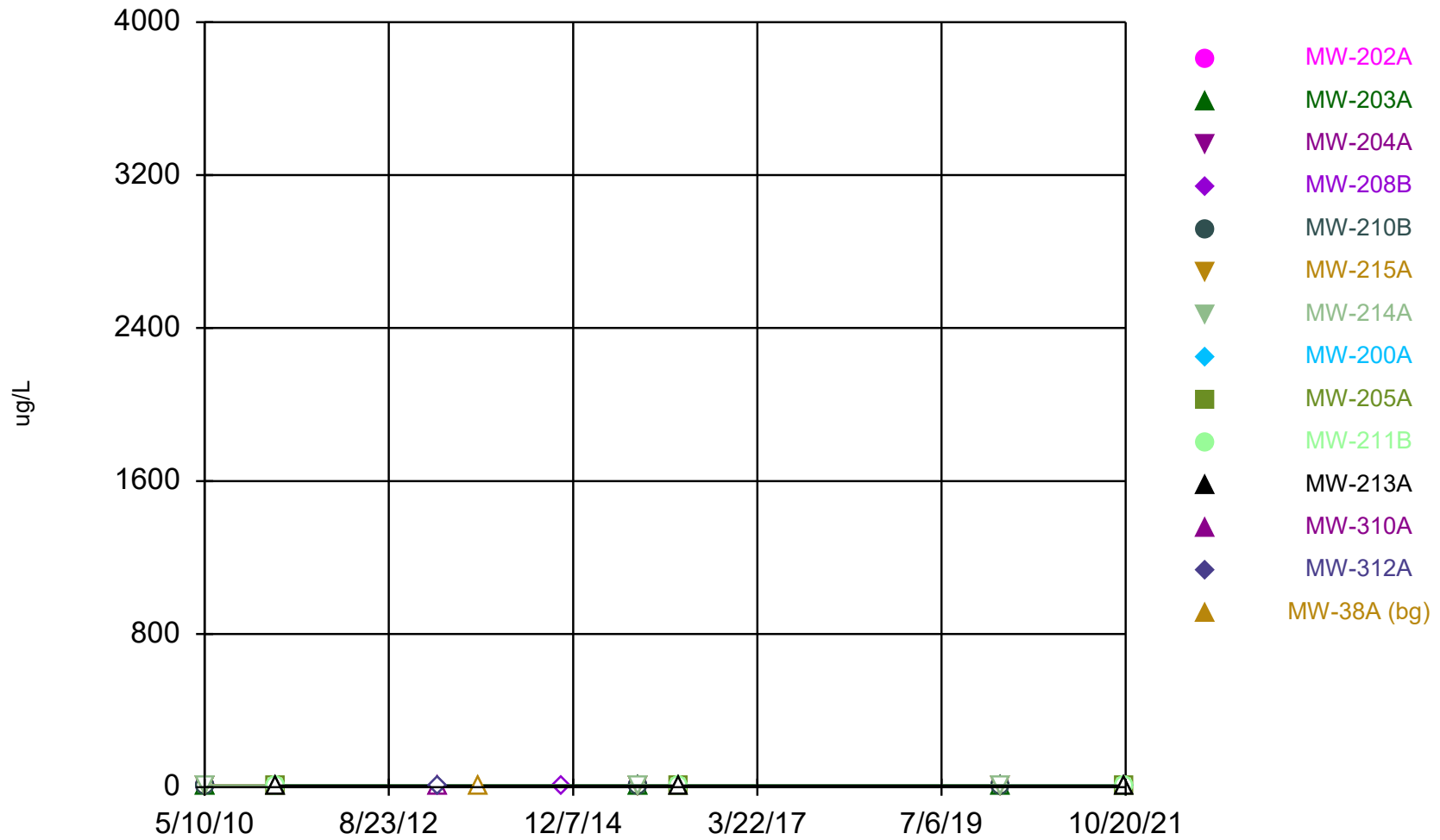
Time Series



Constituent: Phenol Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

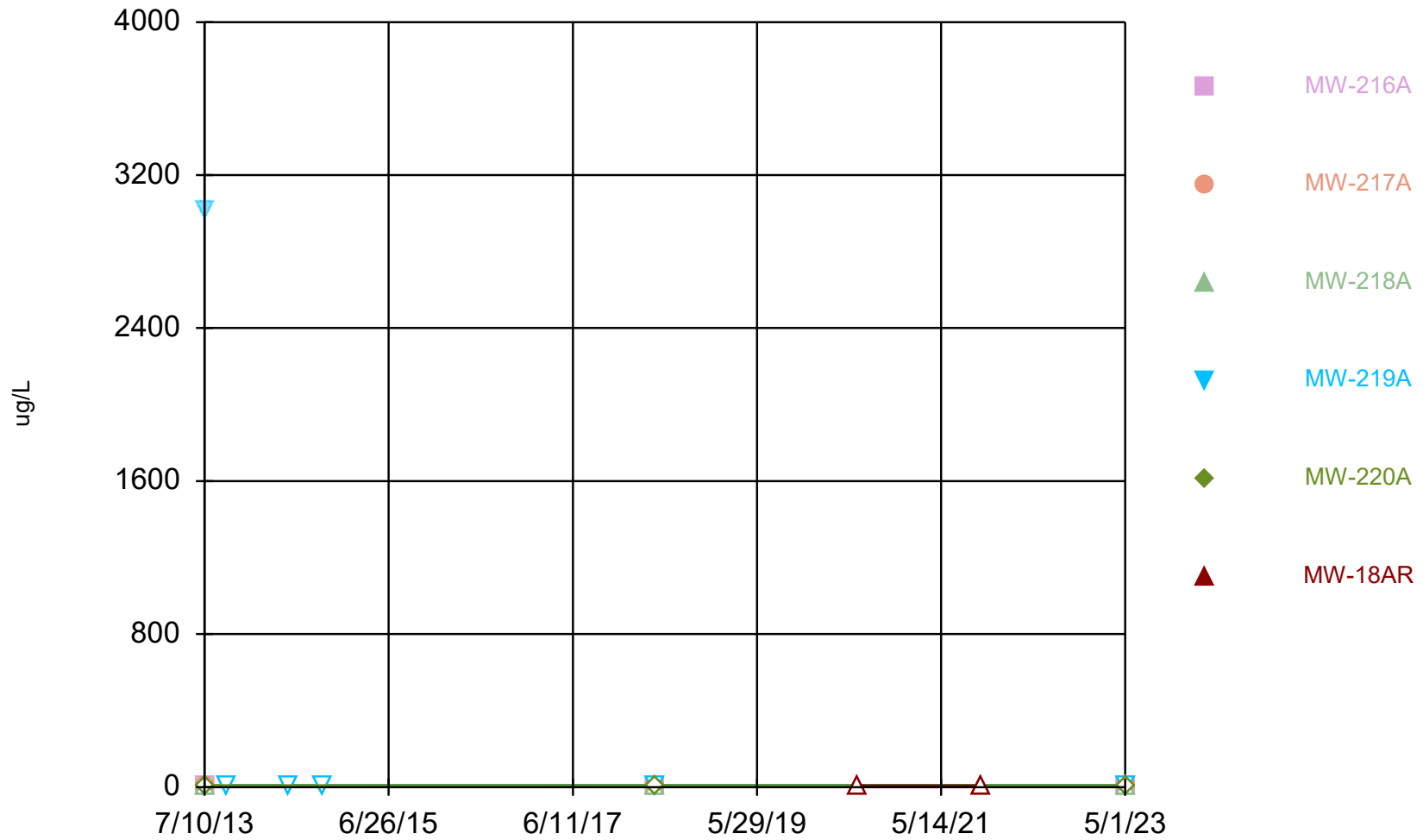
Time Series



Constituent: Phenol Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

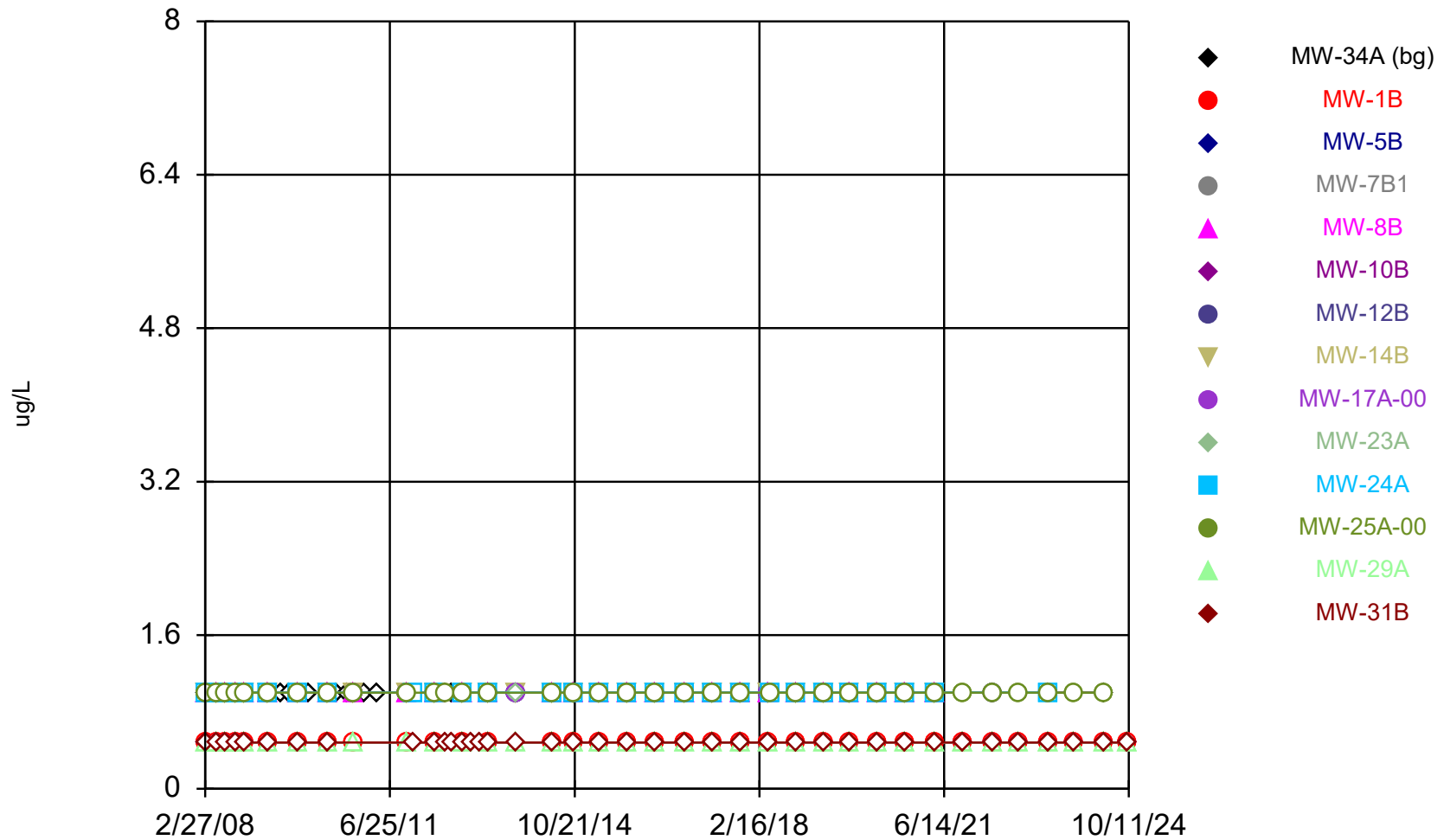
Time Series



Constituent: Phenol Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

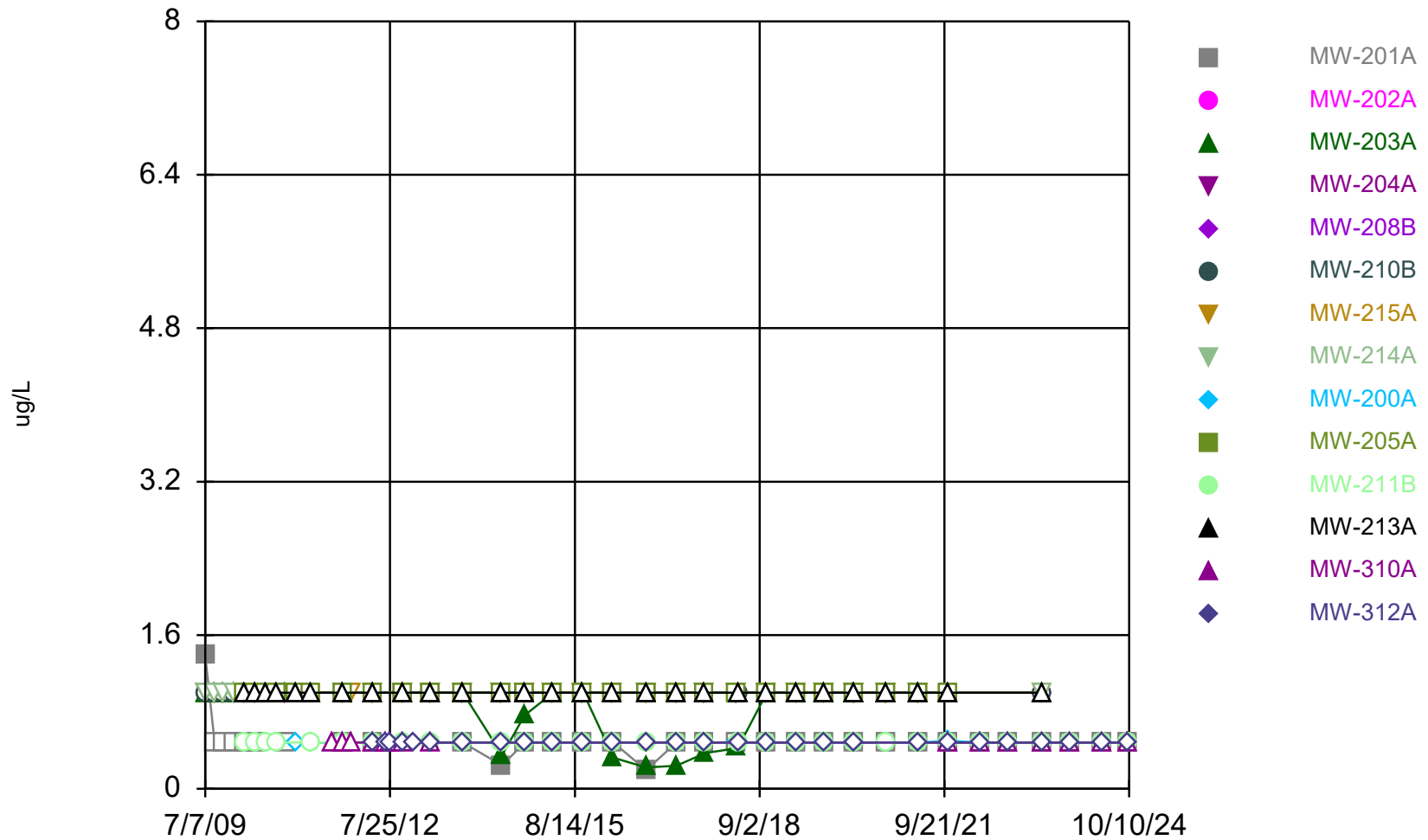
Time Series



Constituent: Tetrachloroethene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

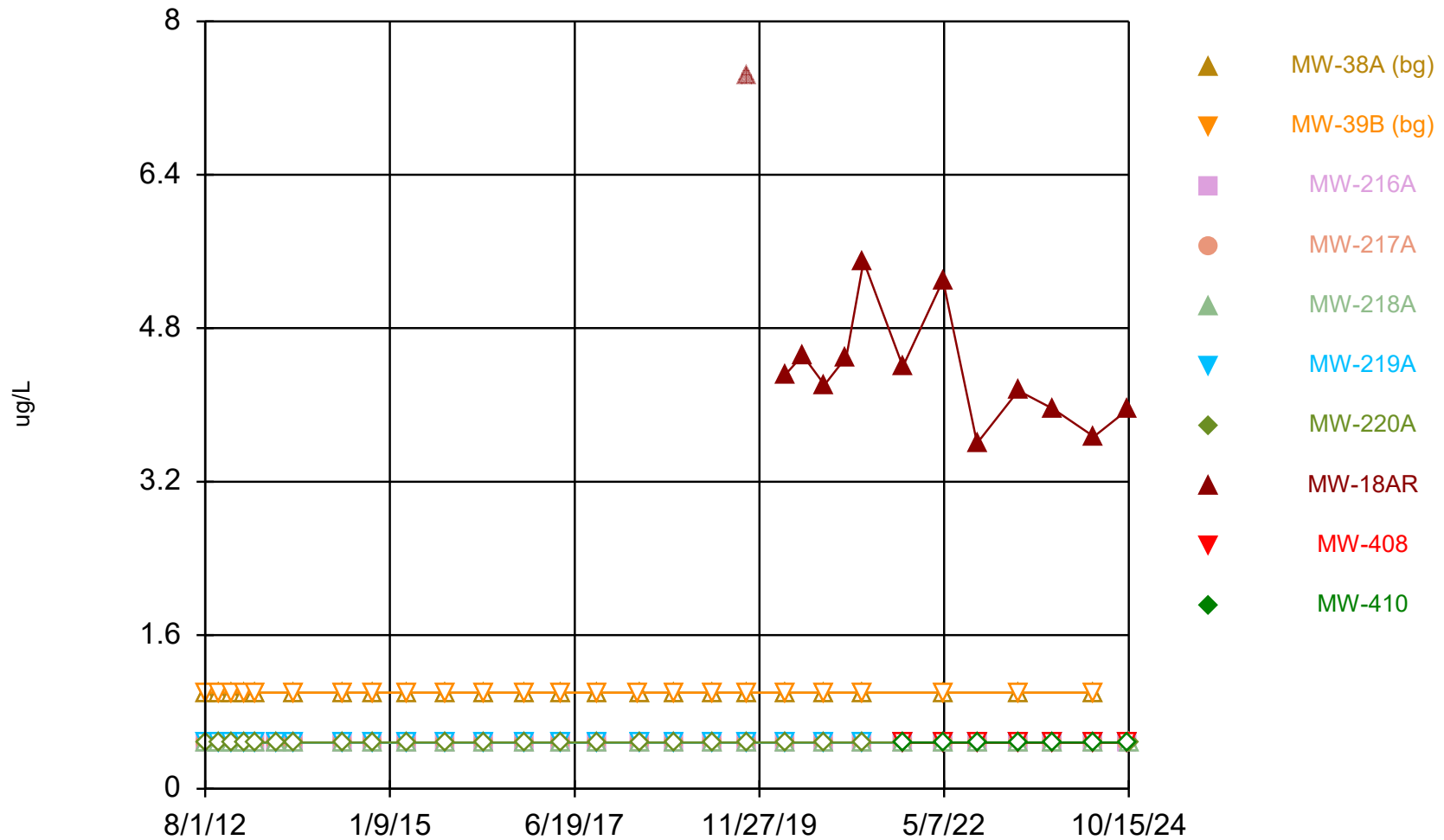
Time Series



Constituent: Tetrachloroethene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

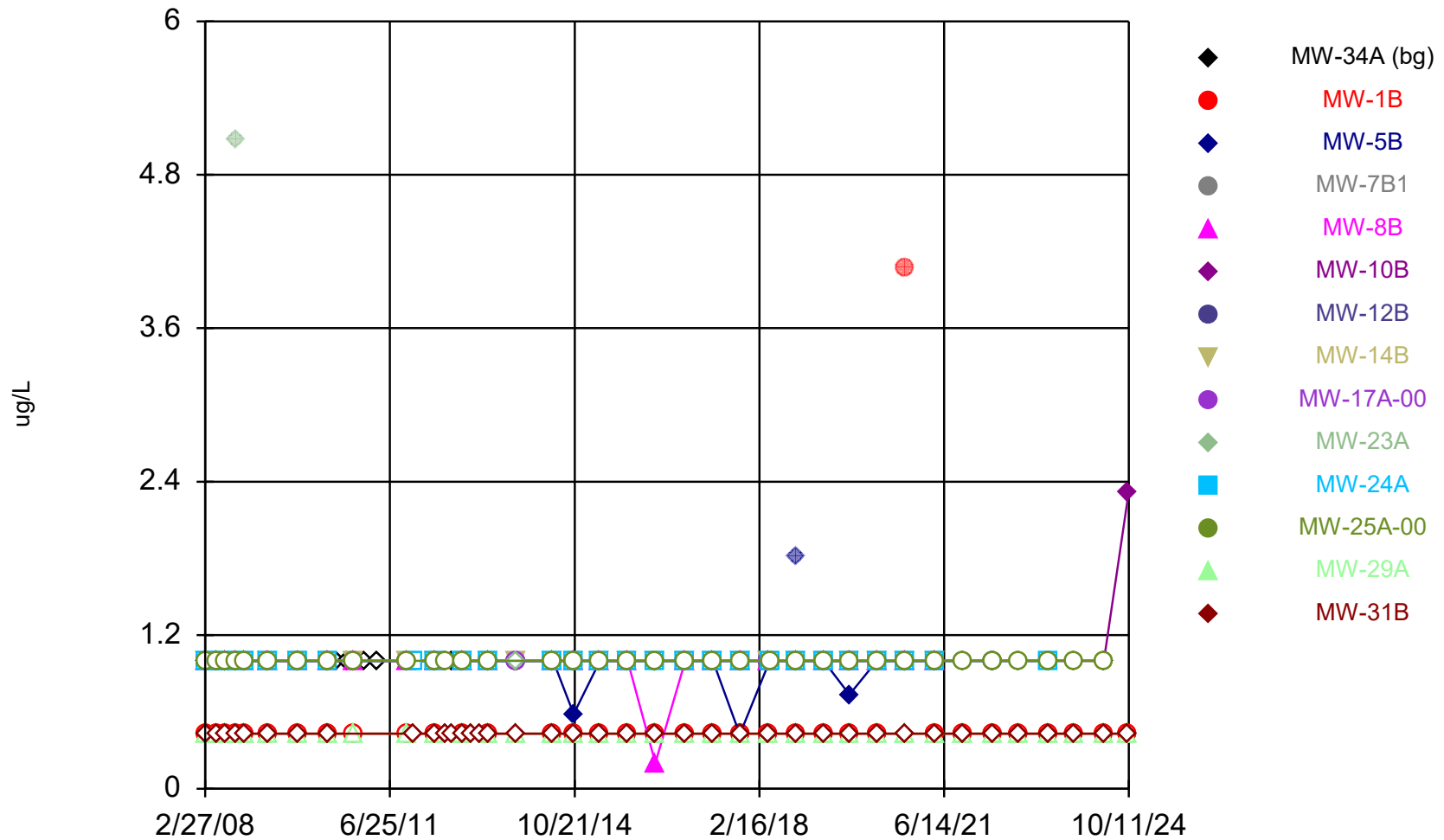
Time Series



Constituent: Tetrachloroethene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

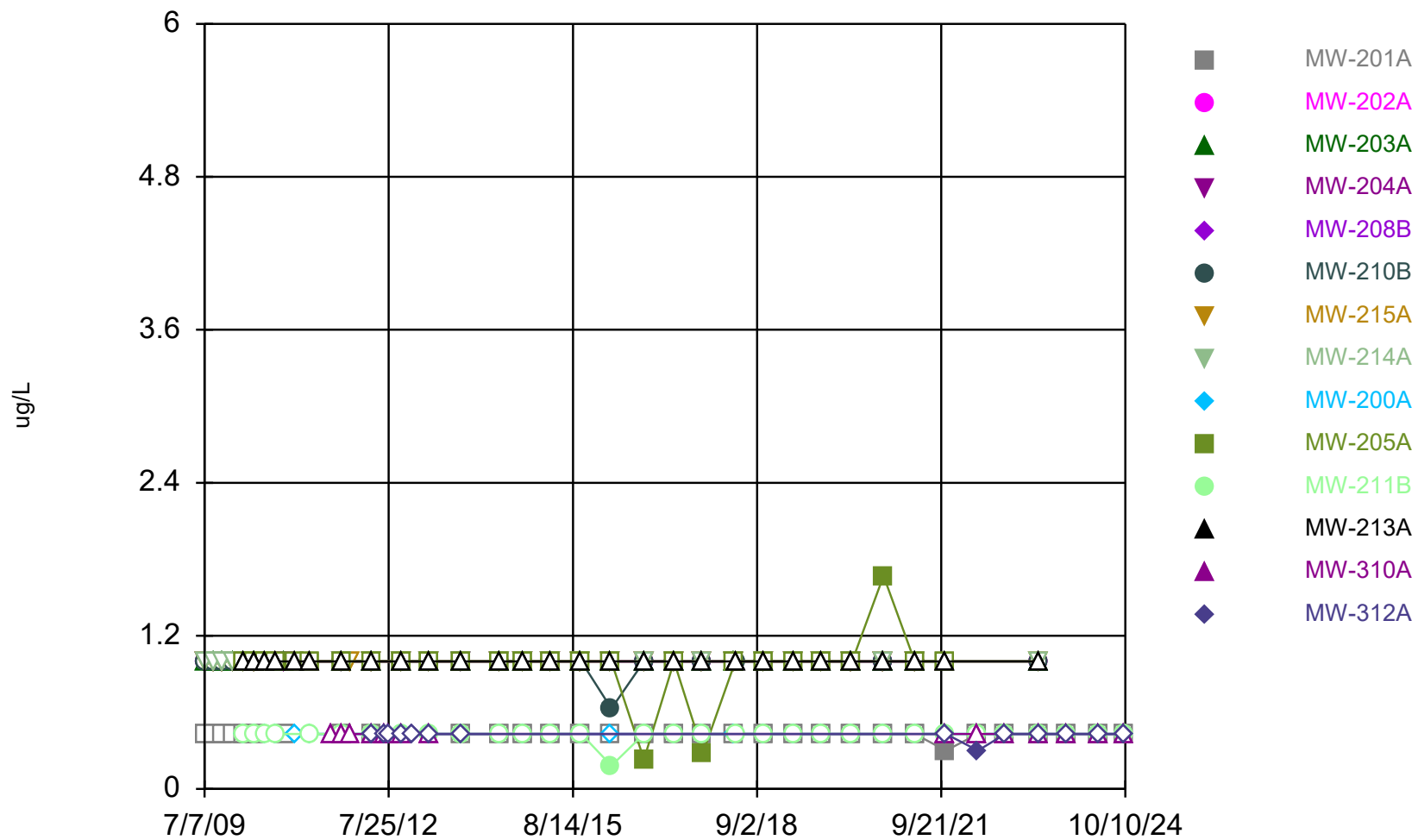
Time Series



Constituent: Toluene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

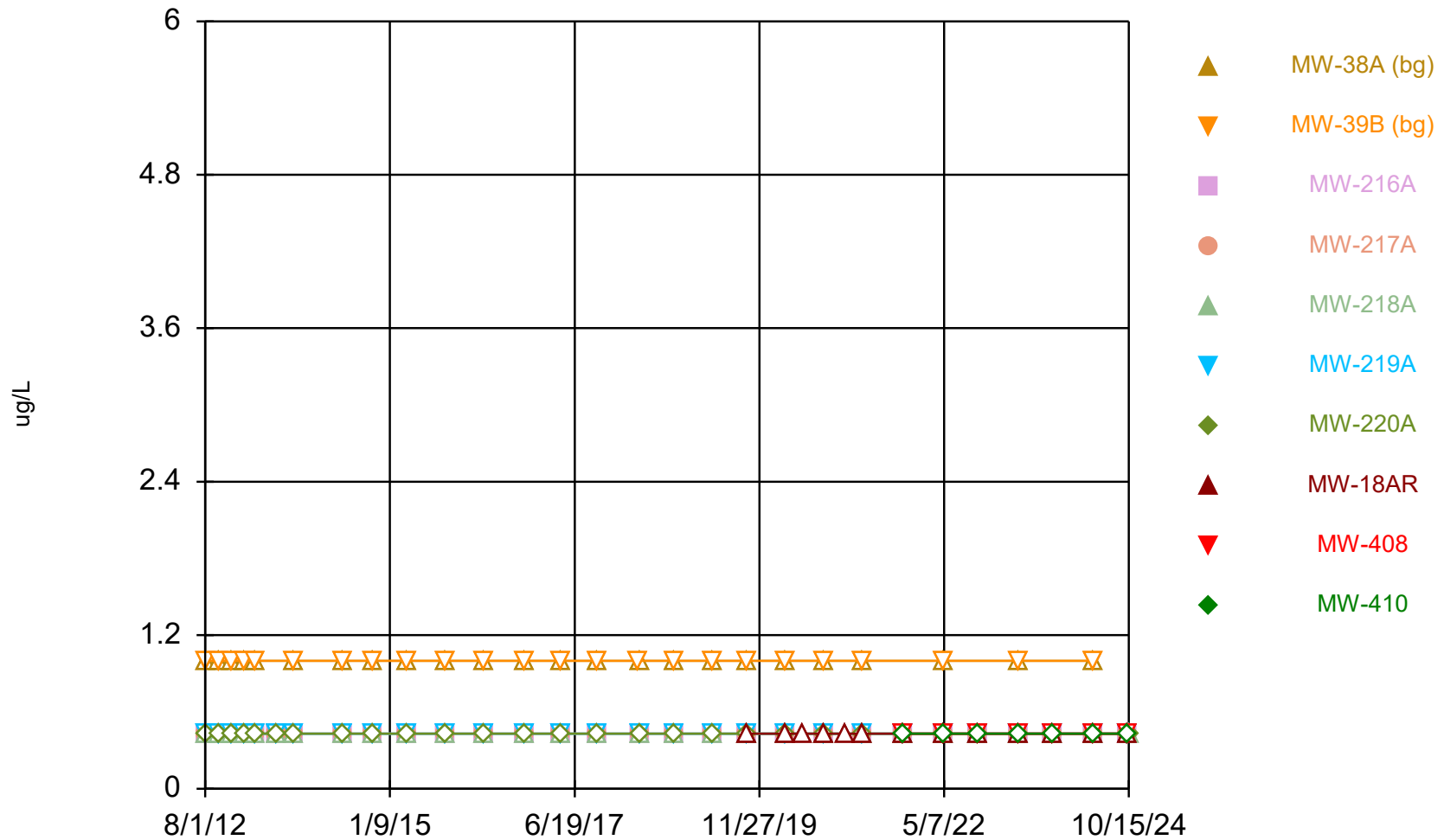
Time Series



Constituent: Toluene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

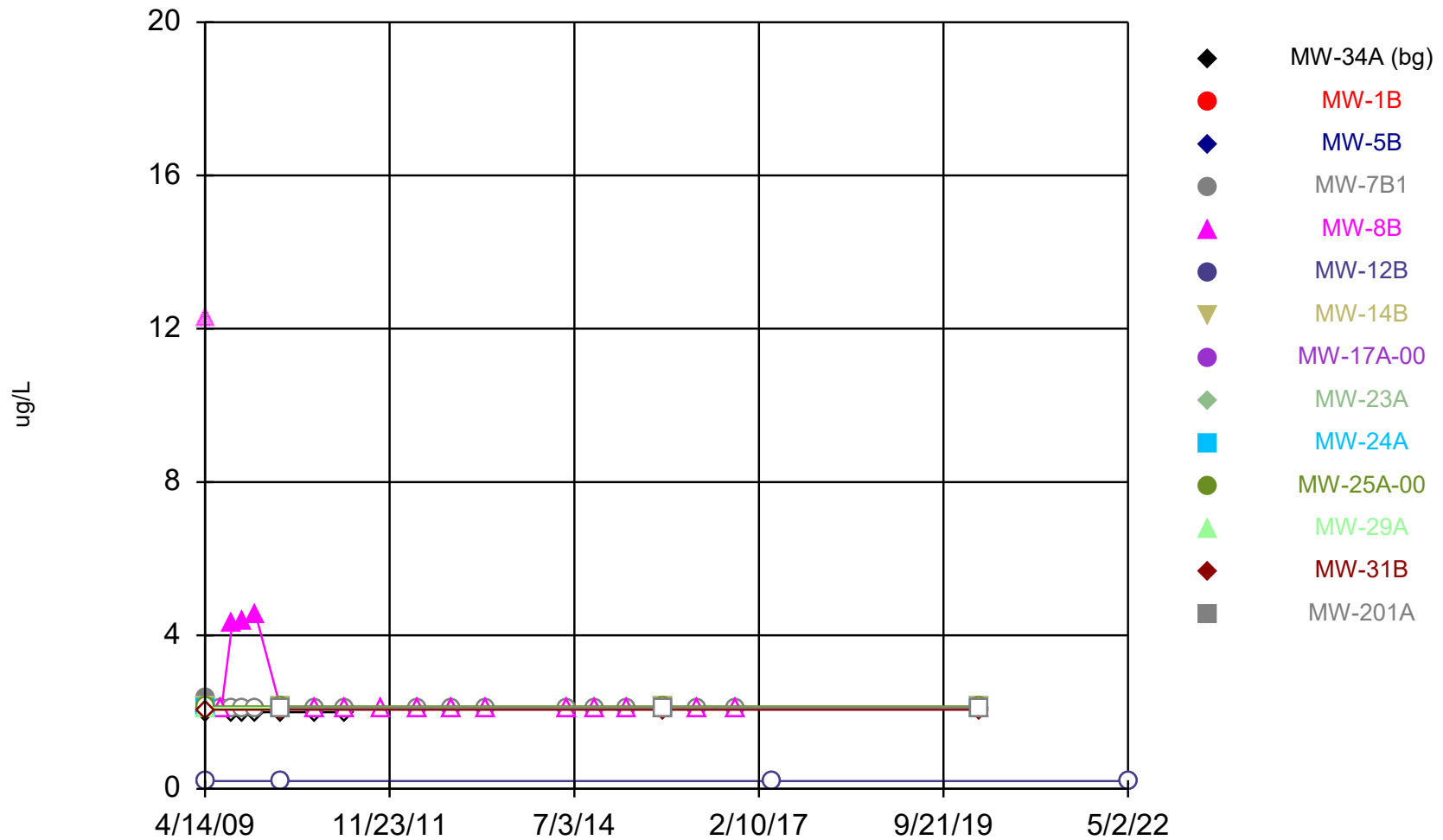
Time Series



Constituent: Toluene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

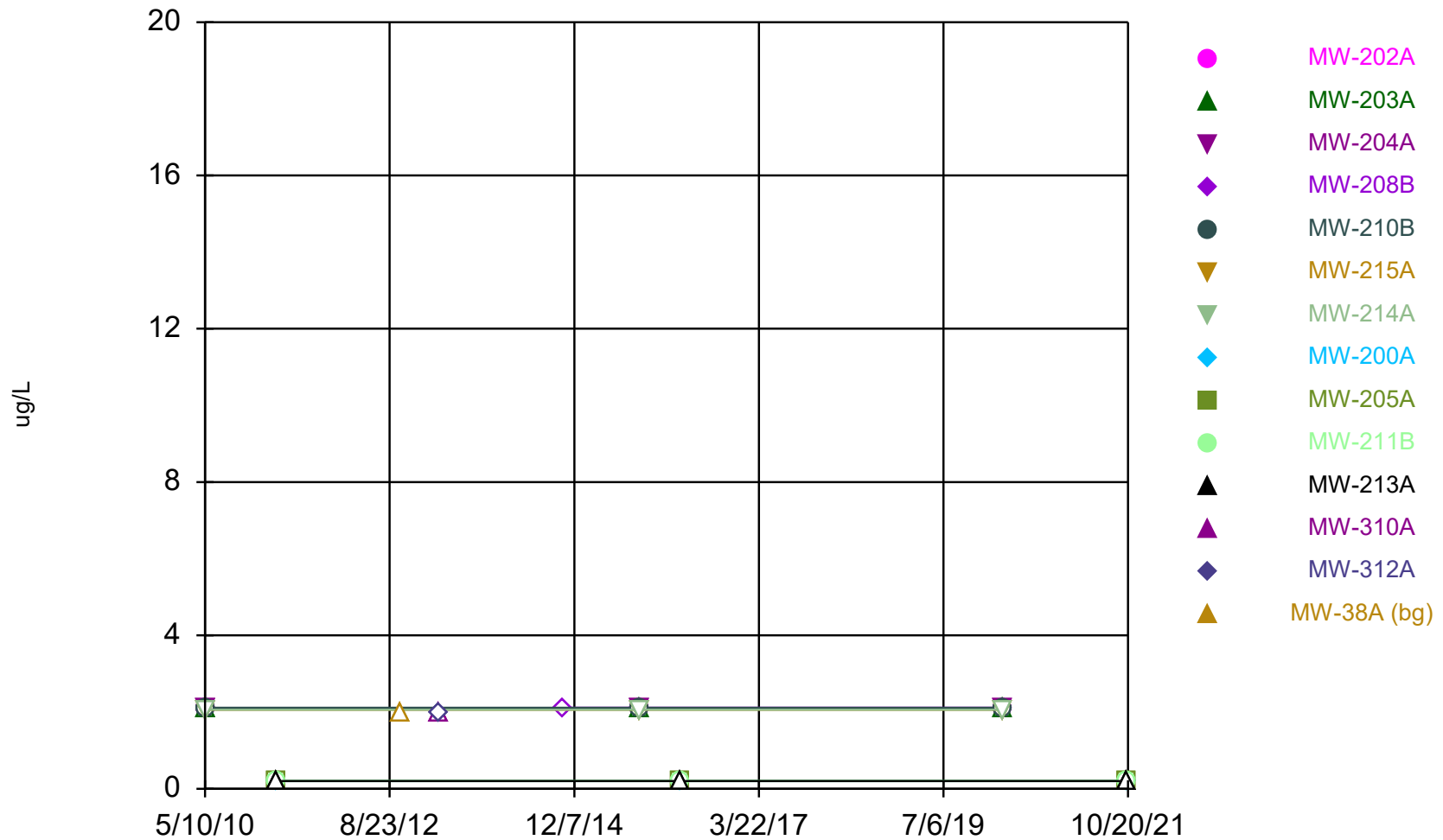
Time Series



Constituent: Toxaphene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

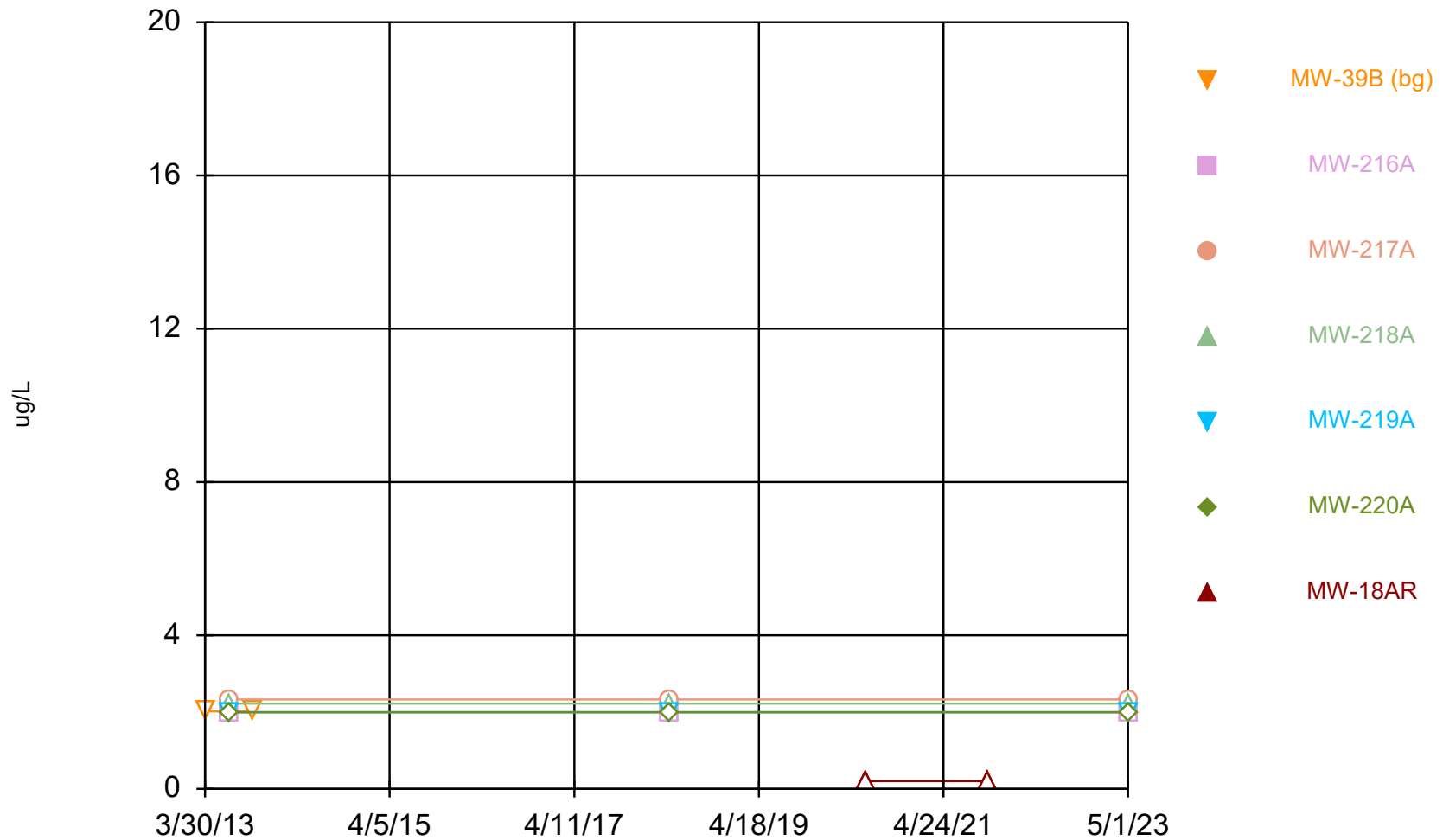
Time Series



Constituent: Toxaphene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

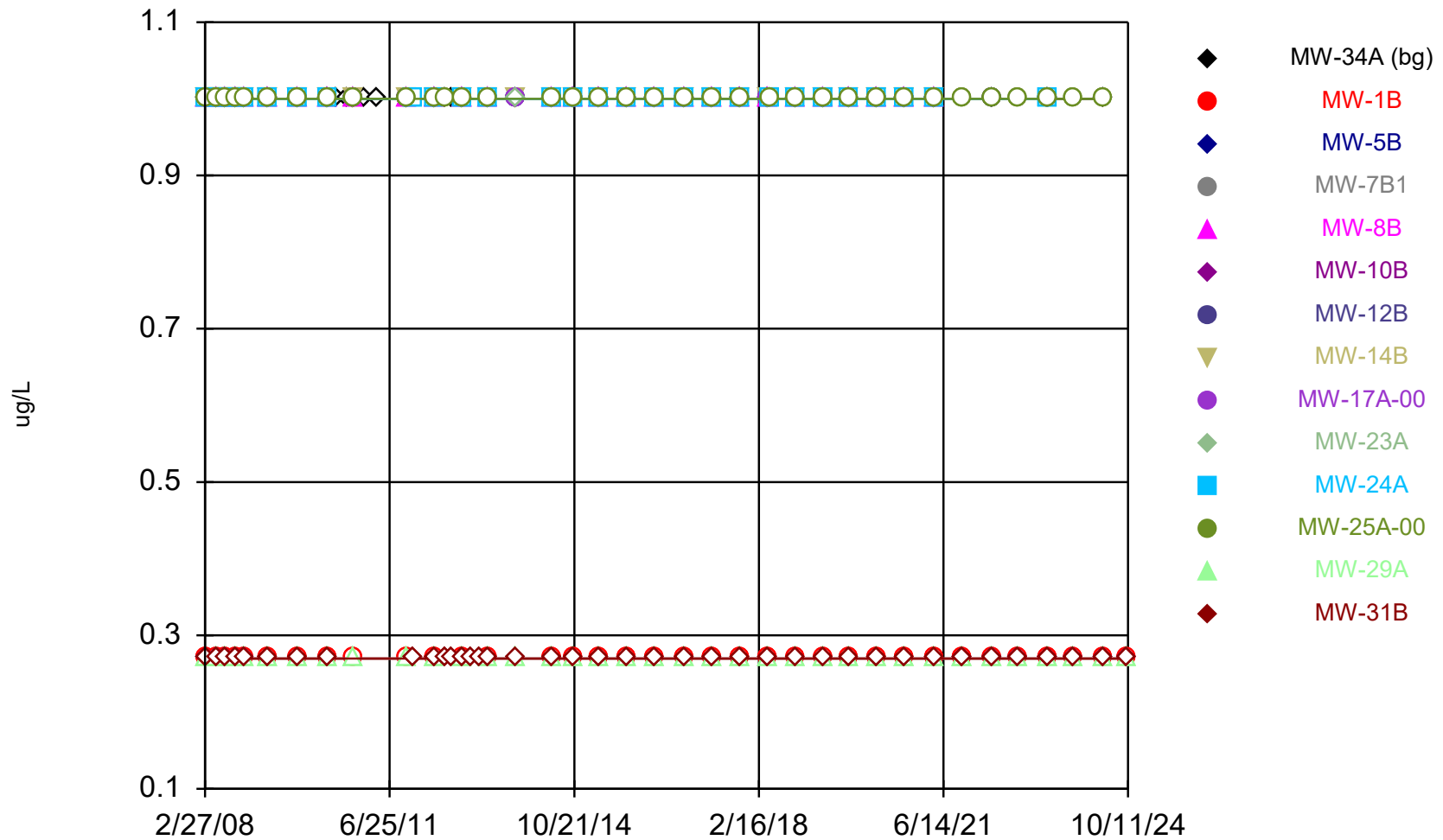
Time Series



Constituent: Toxaphene Analysis Run 1/21/2025 9:13 PM View: 06A_MW_Organics_PL

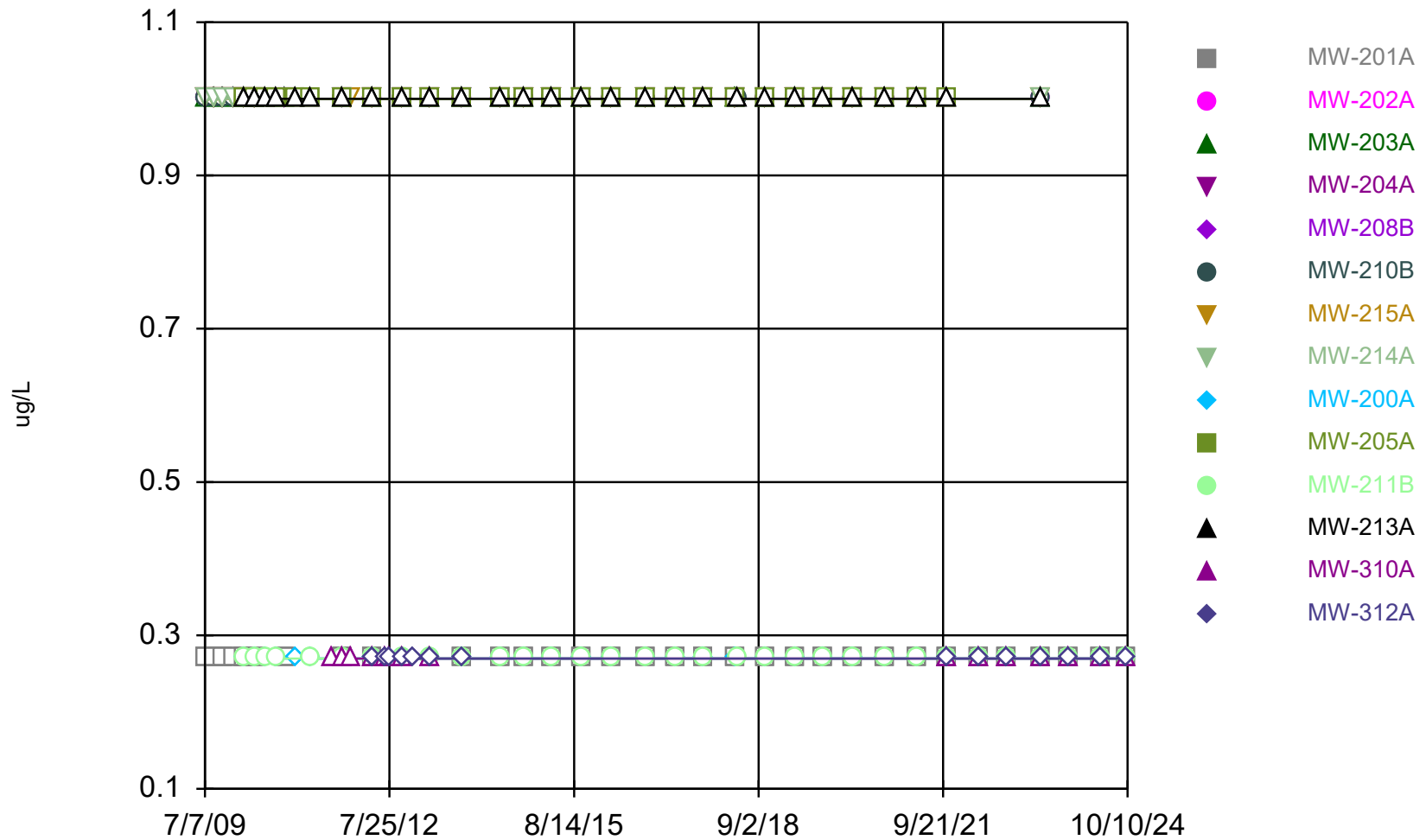
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



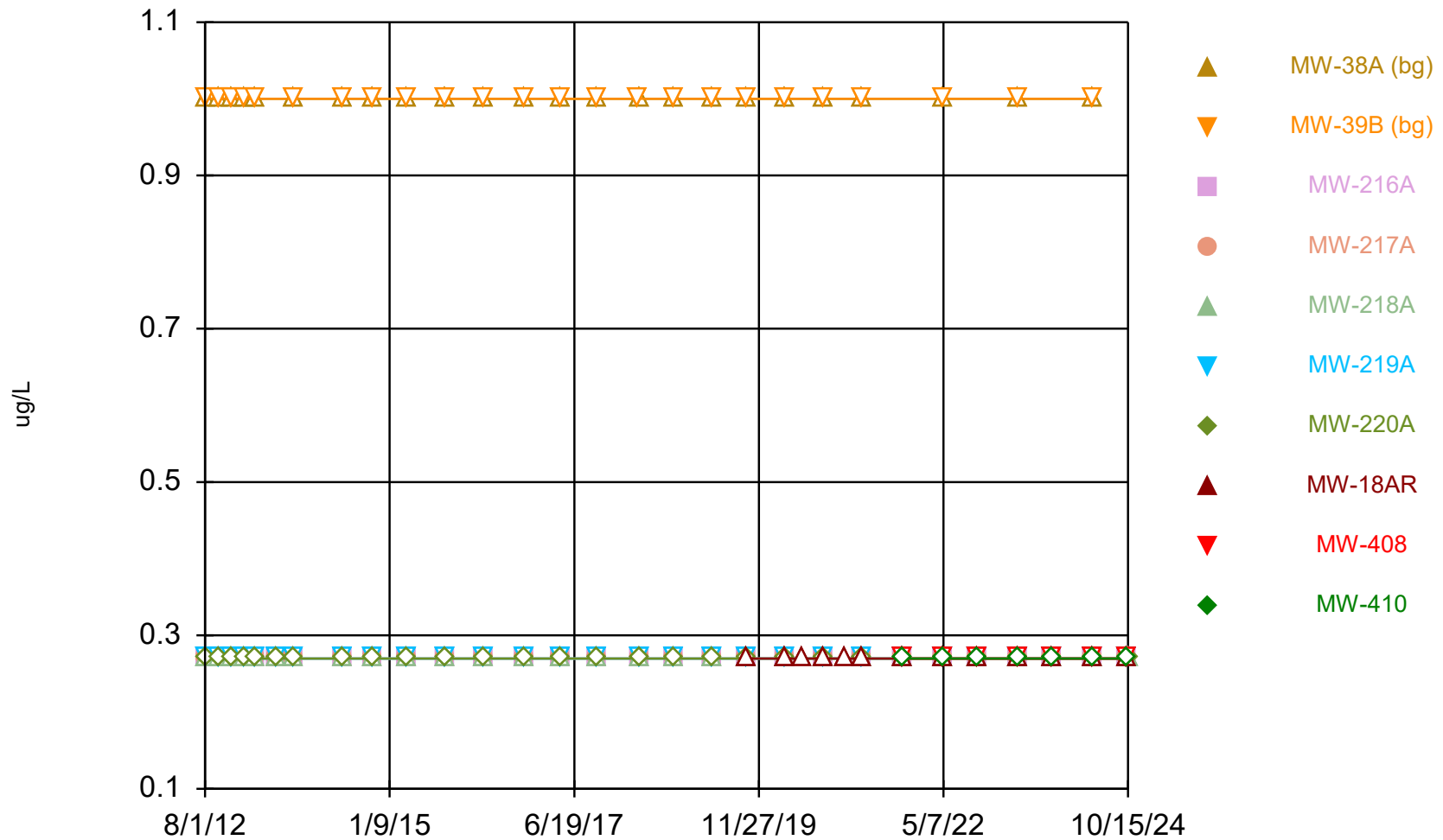
Constituent: trans-1,2-Dichloroethene Analysis Run 1/21/2025 9:14 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



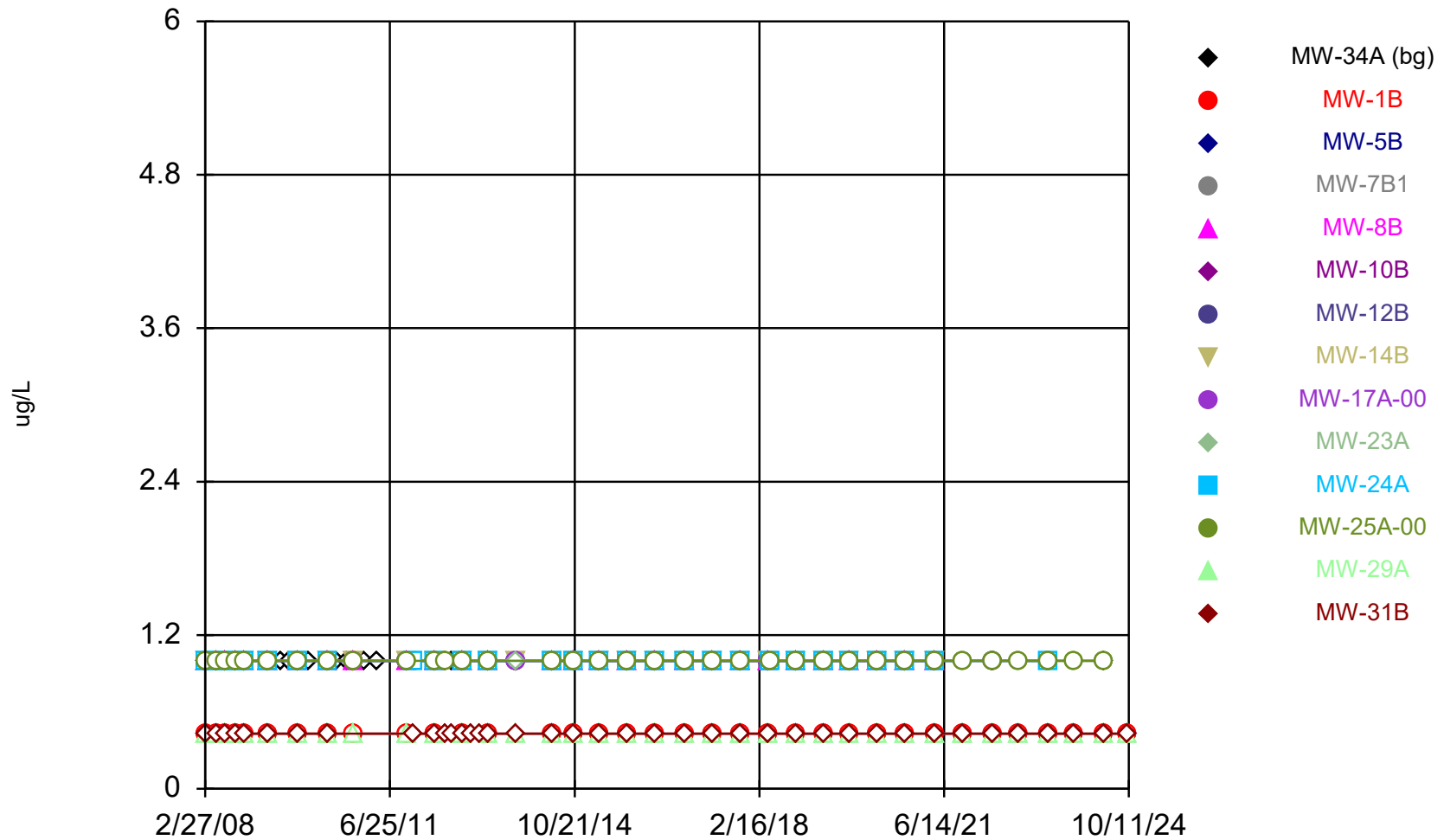
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 1/21/2025 9:14 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

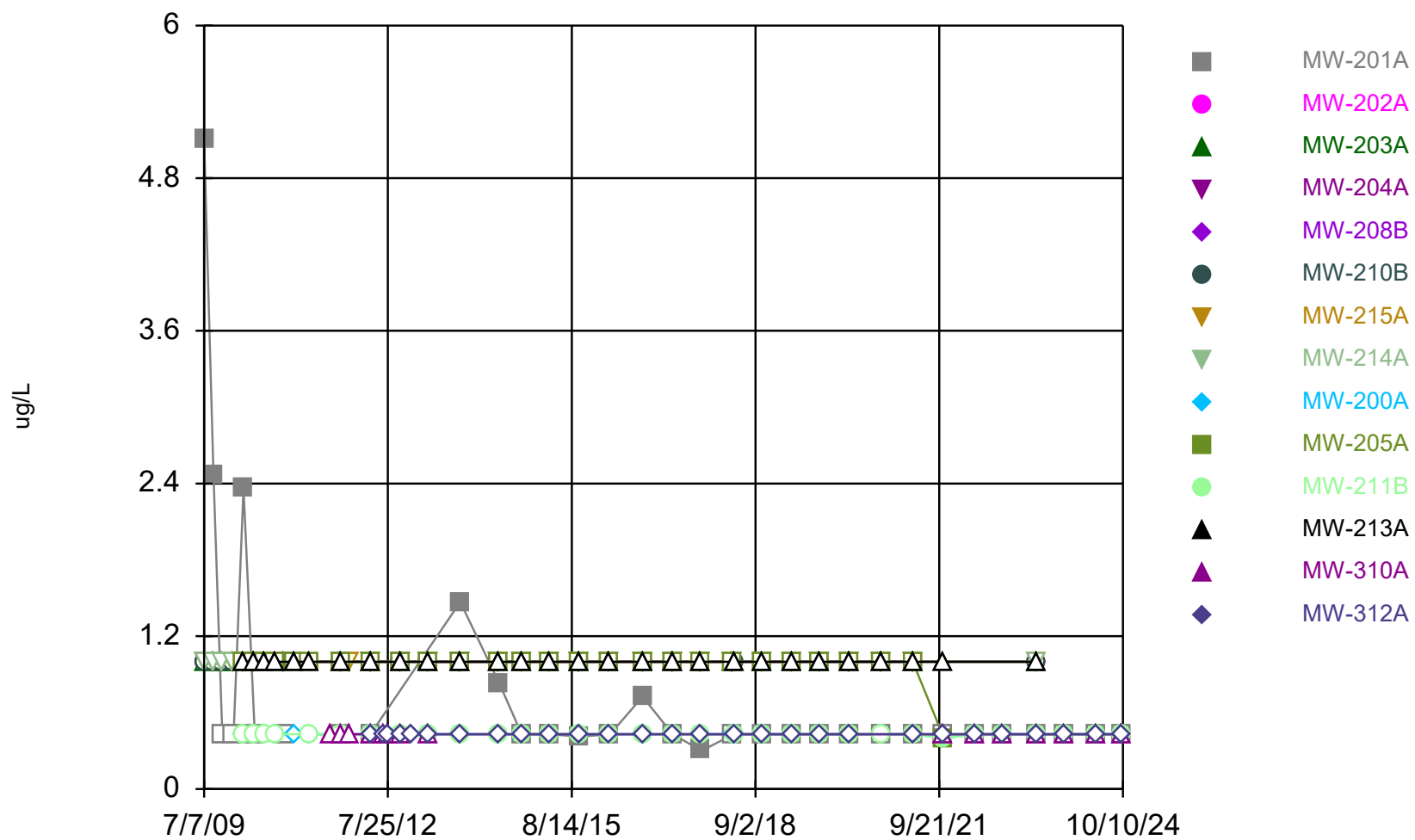
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Iowa City Landfill Data: Iowa City Sanitary Landfill

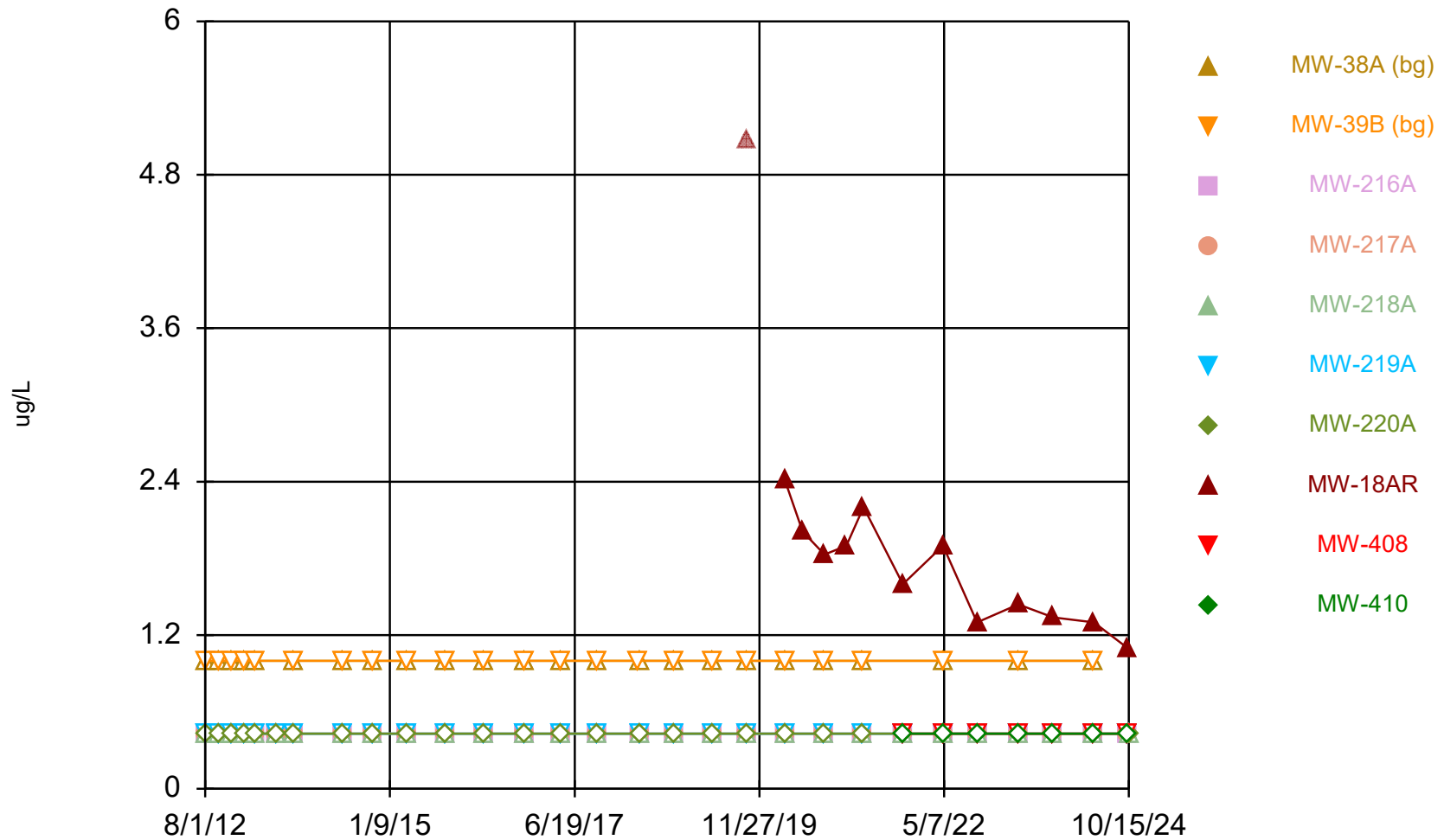
Time Series



Constituent: Trichloroethene Analysis Run 1/21/2025 9:14 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

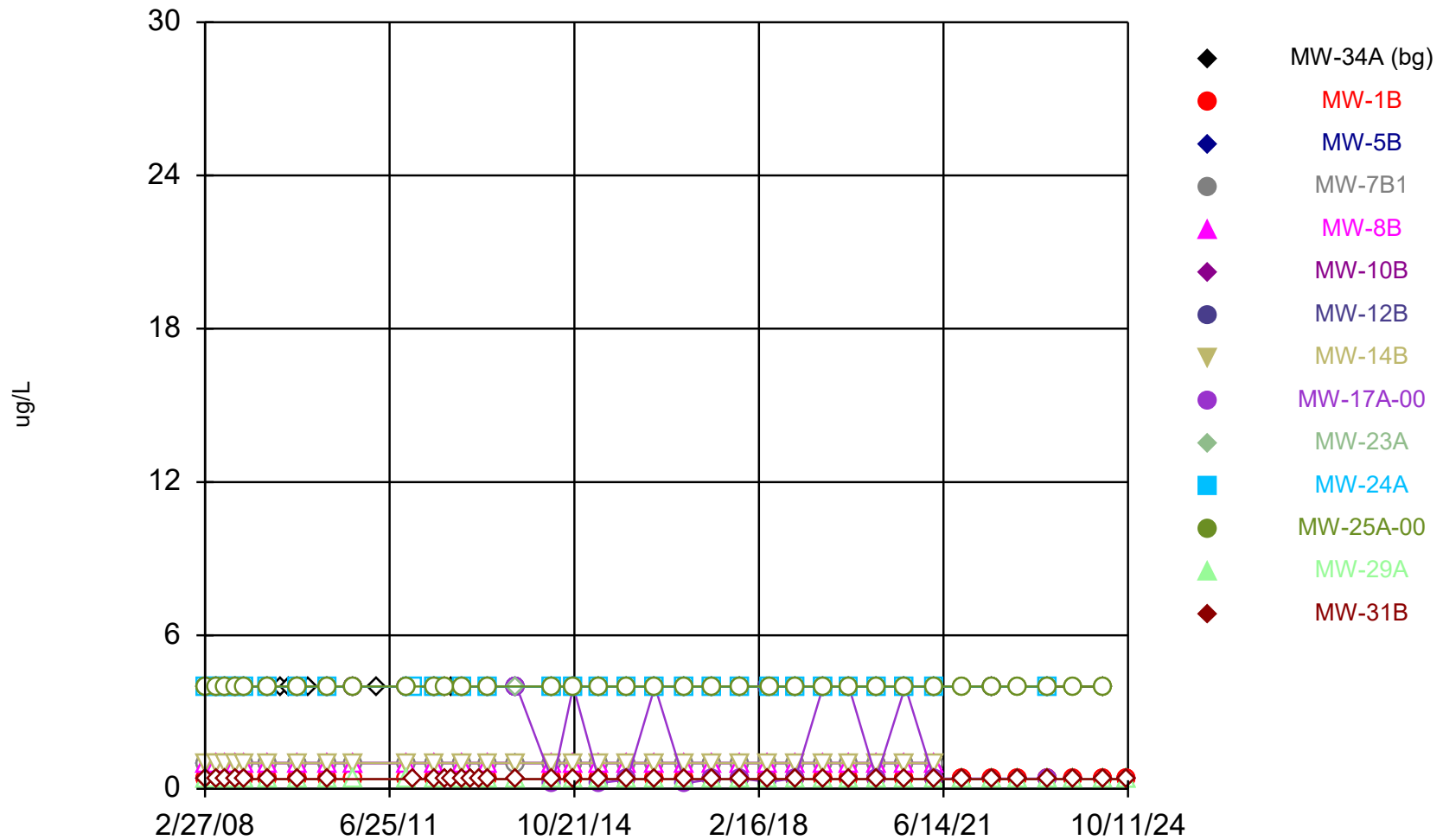
Time Series



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Iowa City Landfill Data: Iowa City Sanitary Landfill

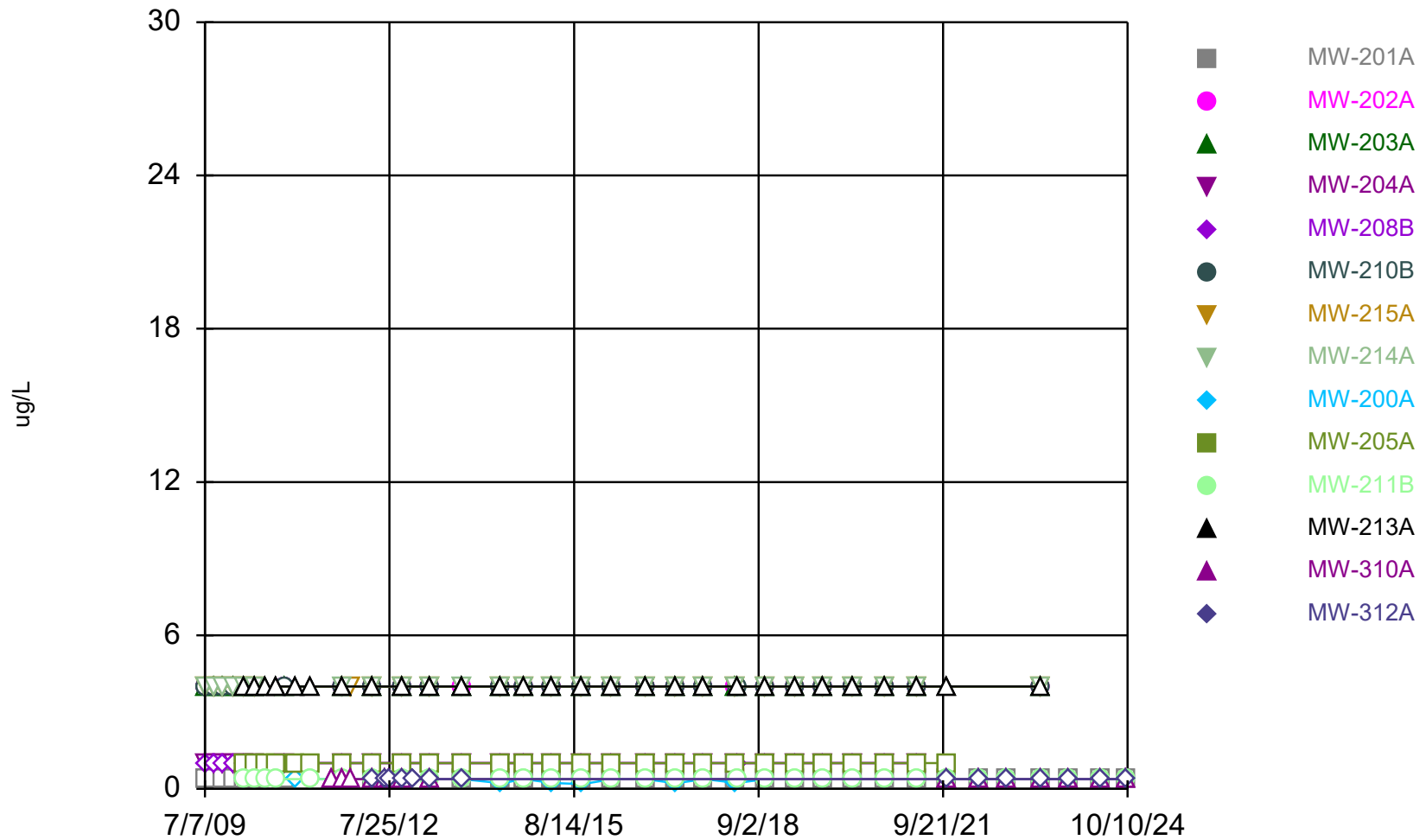
Time Series



Constituent: Trichlorofluoromethane Analysis Run 1/21/2025 9:14 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

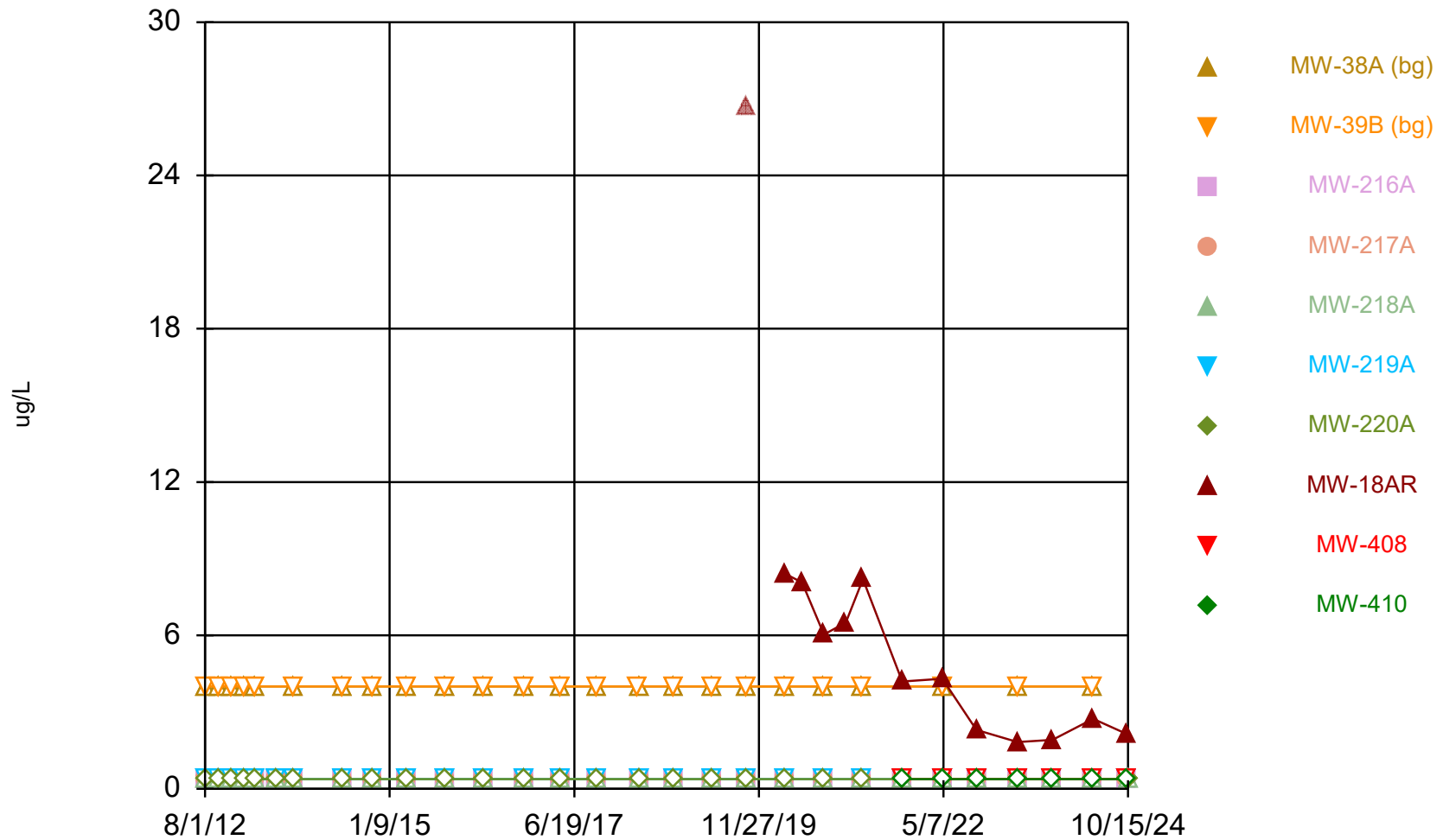
Time Series



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Iowa City Landfill Data: Iowa City Sanitary Landfill

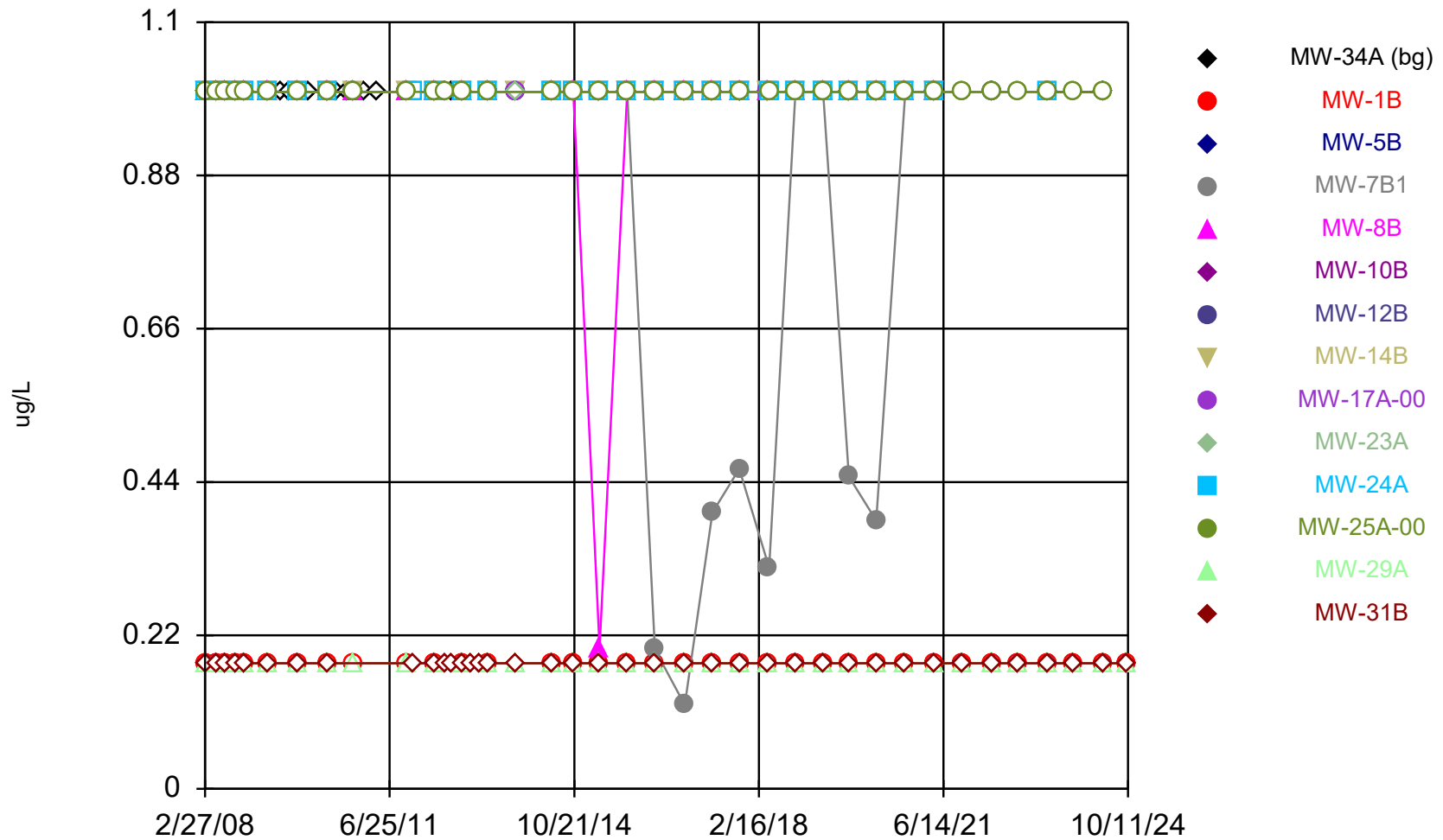
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Constituent: Trichlorofluoromethane Analysis Run 1/21/2025 9:14 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

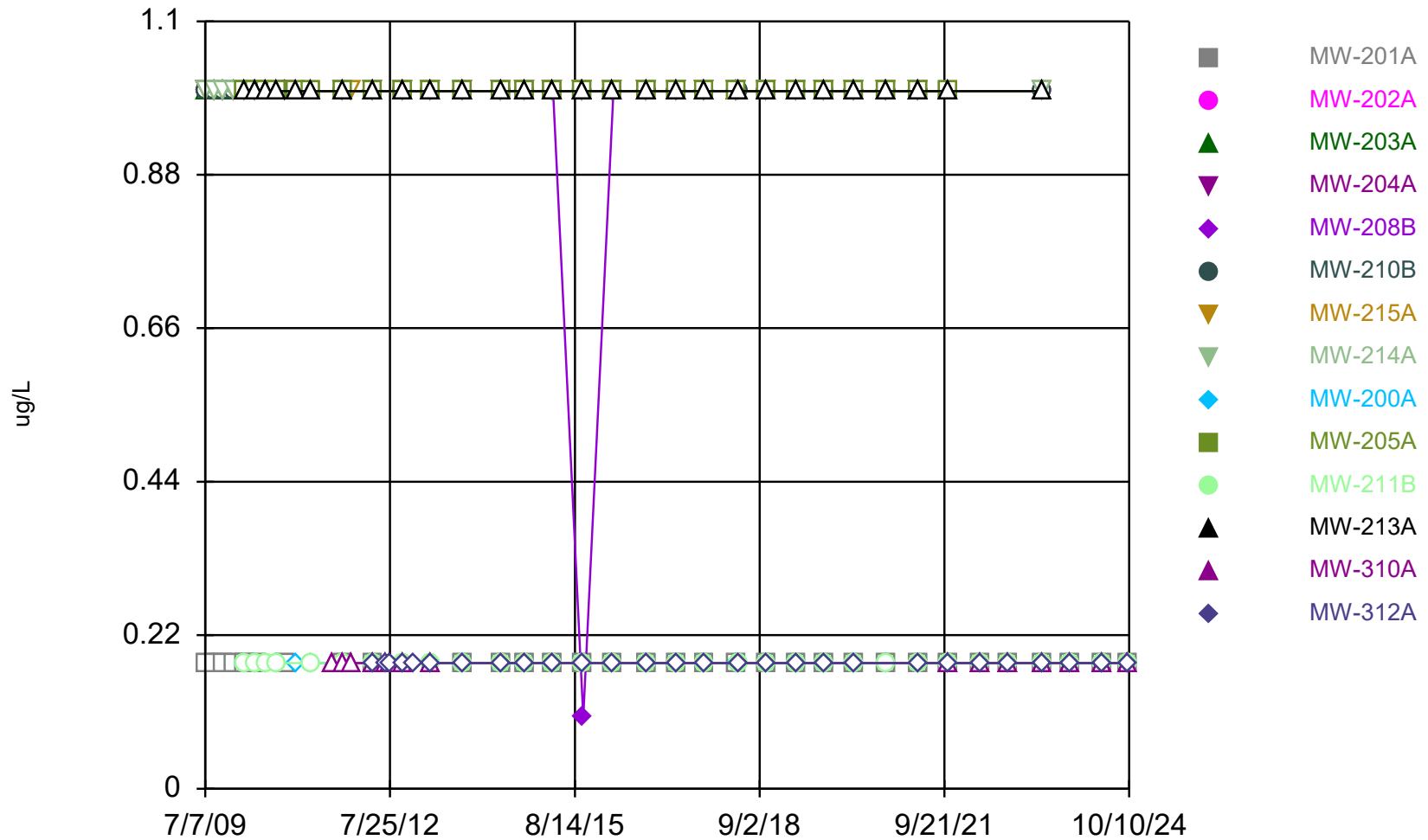
Time Series



Constituent: Vinyl Chloride Analysis Run 1/21/2025 9:14 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

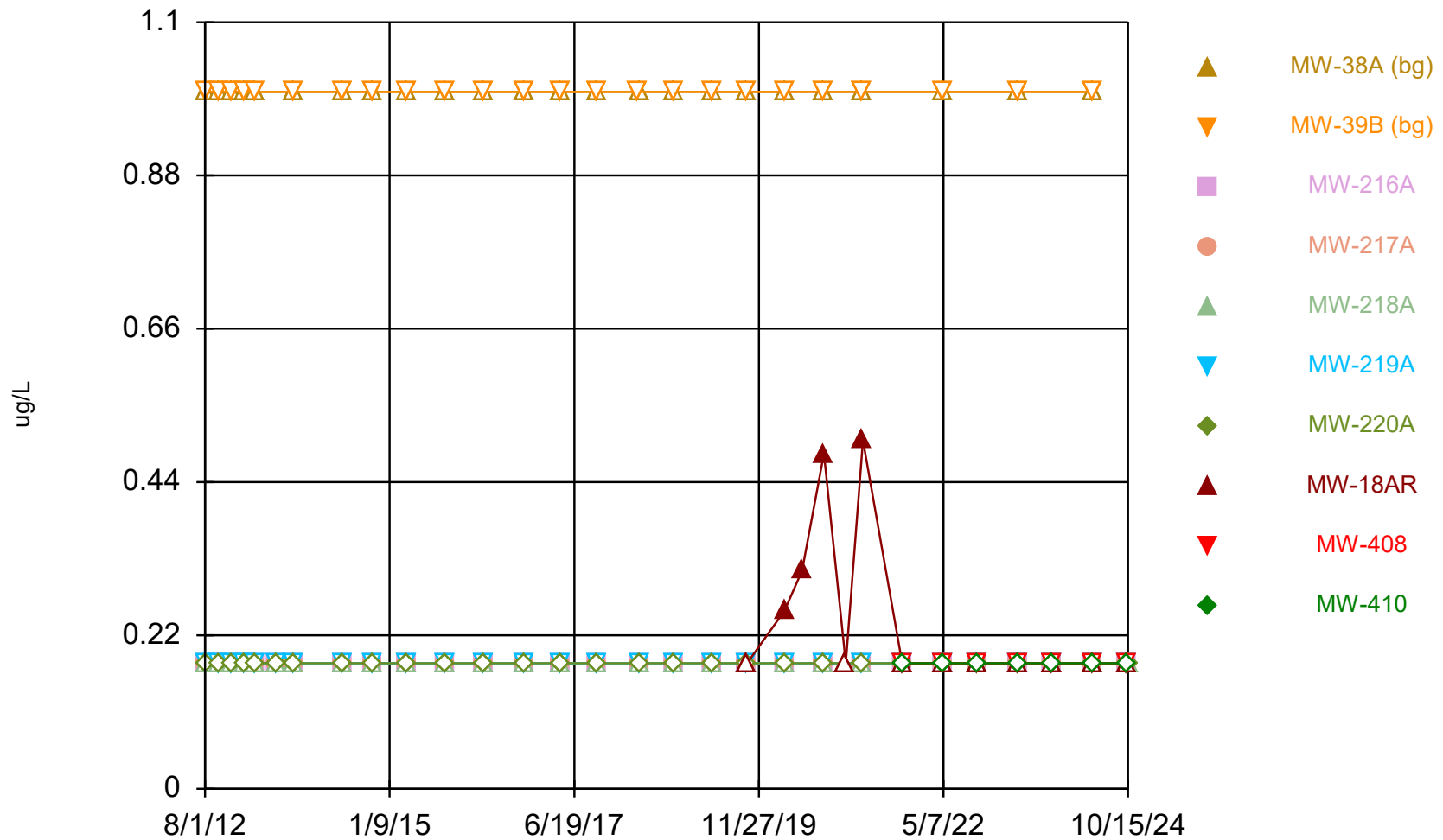
Time Series



Constituent: Vinyl Chloride Analysis Run 1/21/2025 9:14 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

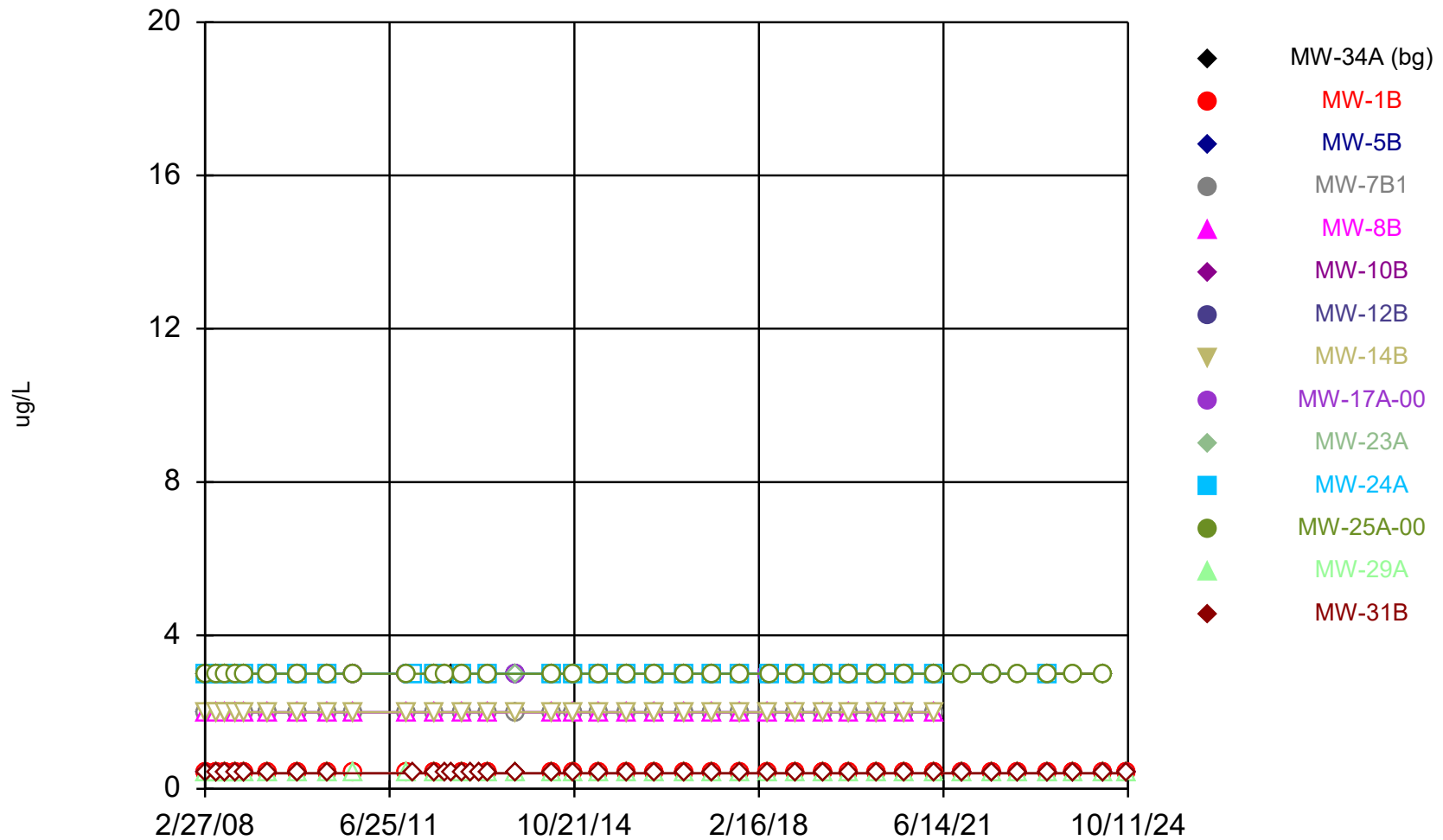
Time Series



Constituent: Vinyl Chloride Analysis Run 1/21/2025 9:14 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

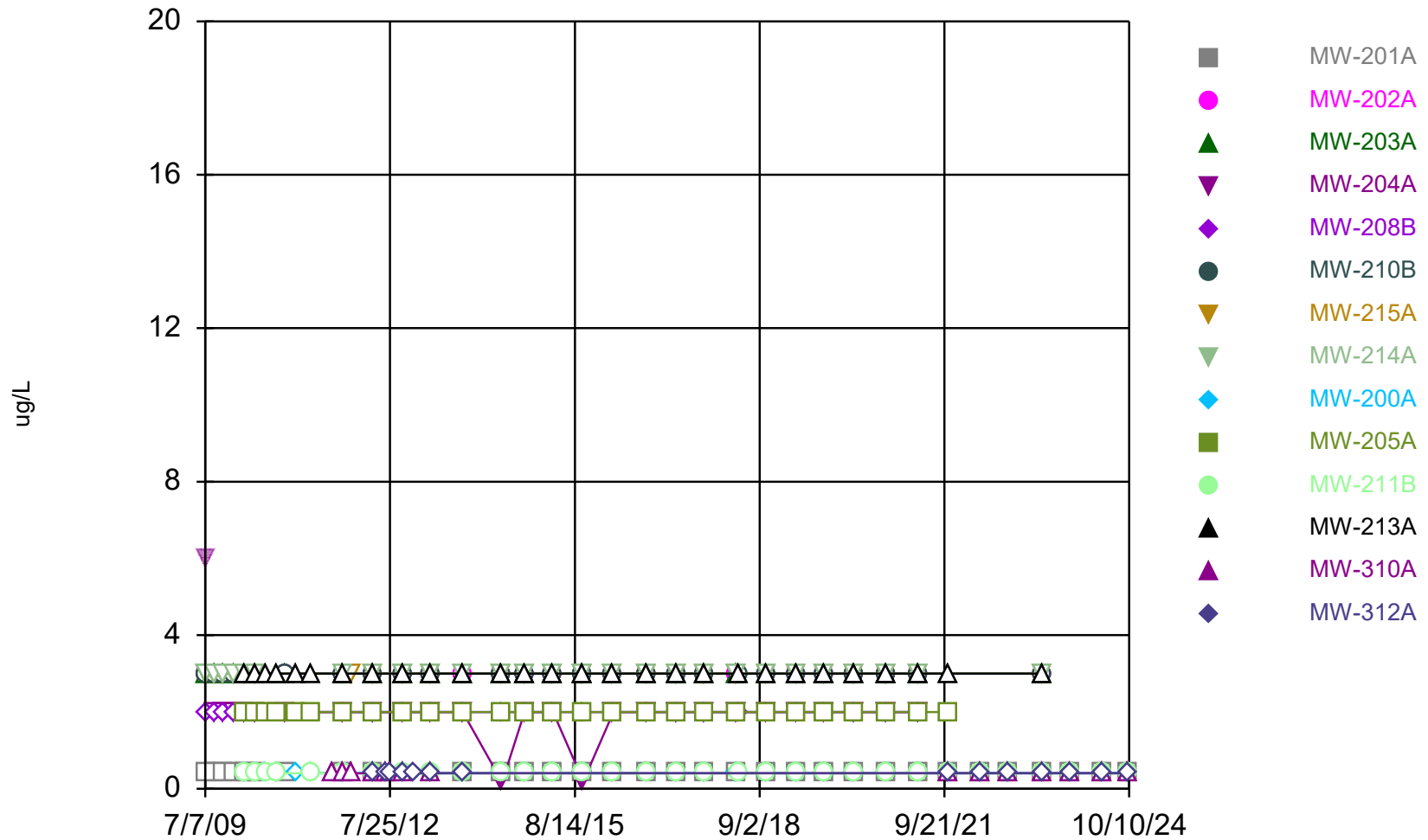
Time Series



Constituent: Xylenes, Total Analysis Run 1/21/2025 9:14 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

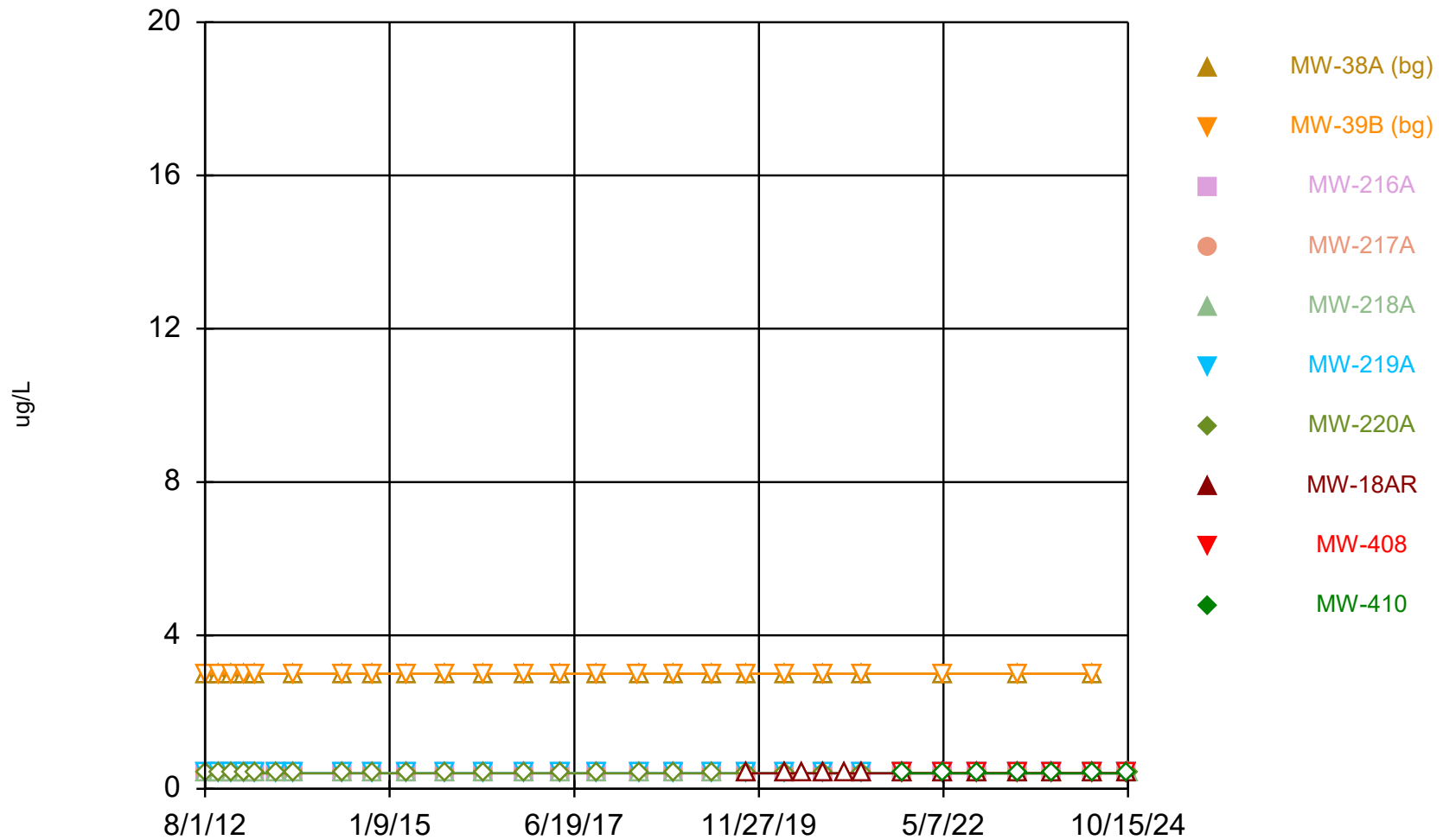
Time Series



Constituent: Xylenes, Total Analysis Run 1/21/2025 9:14 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

Time Series



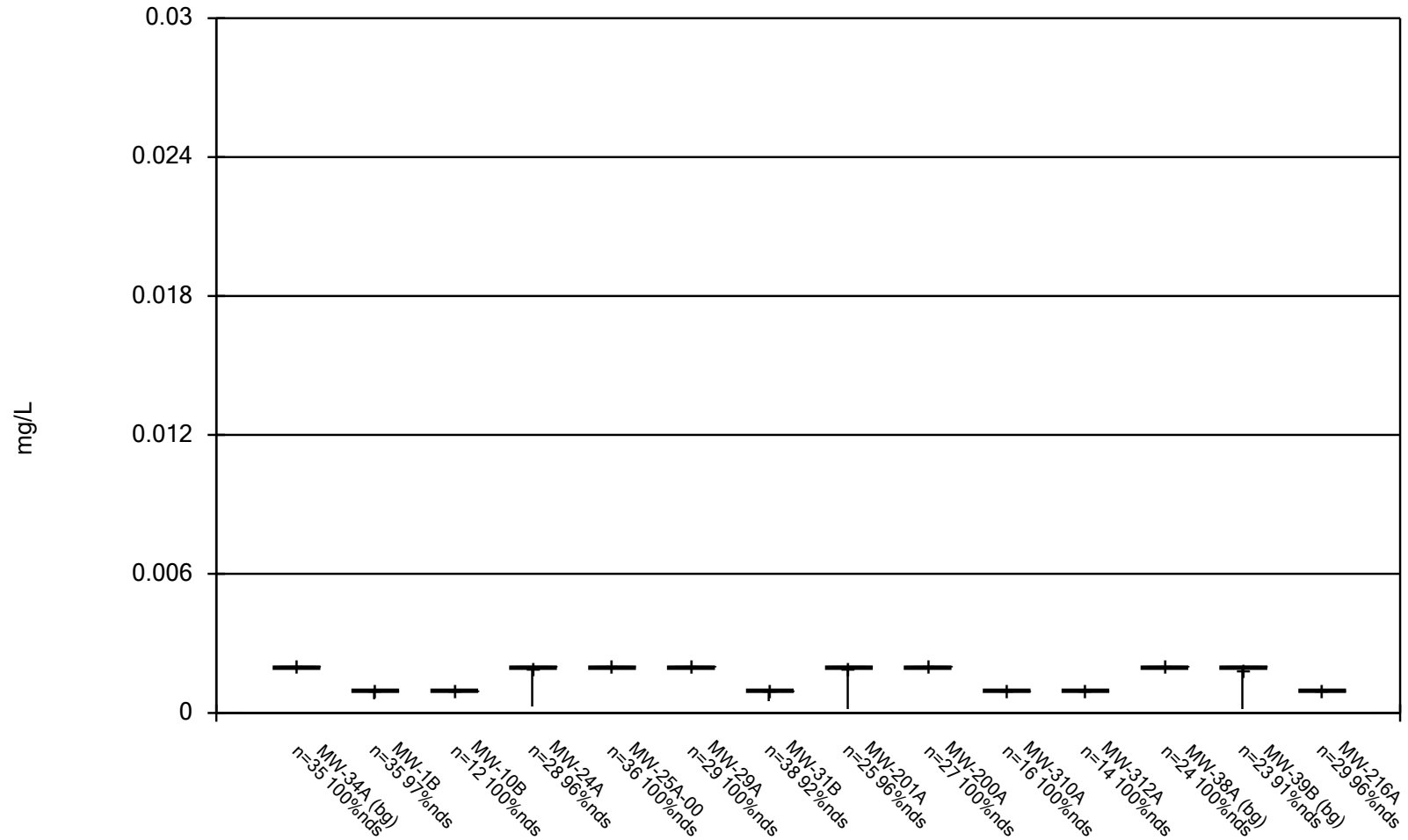
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Groundwater Monitoring Wells –
Box & Whiskers Plots

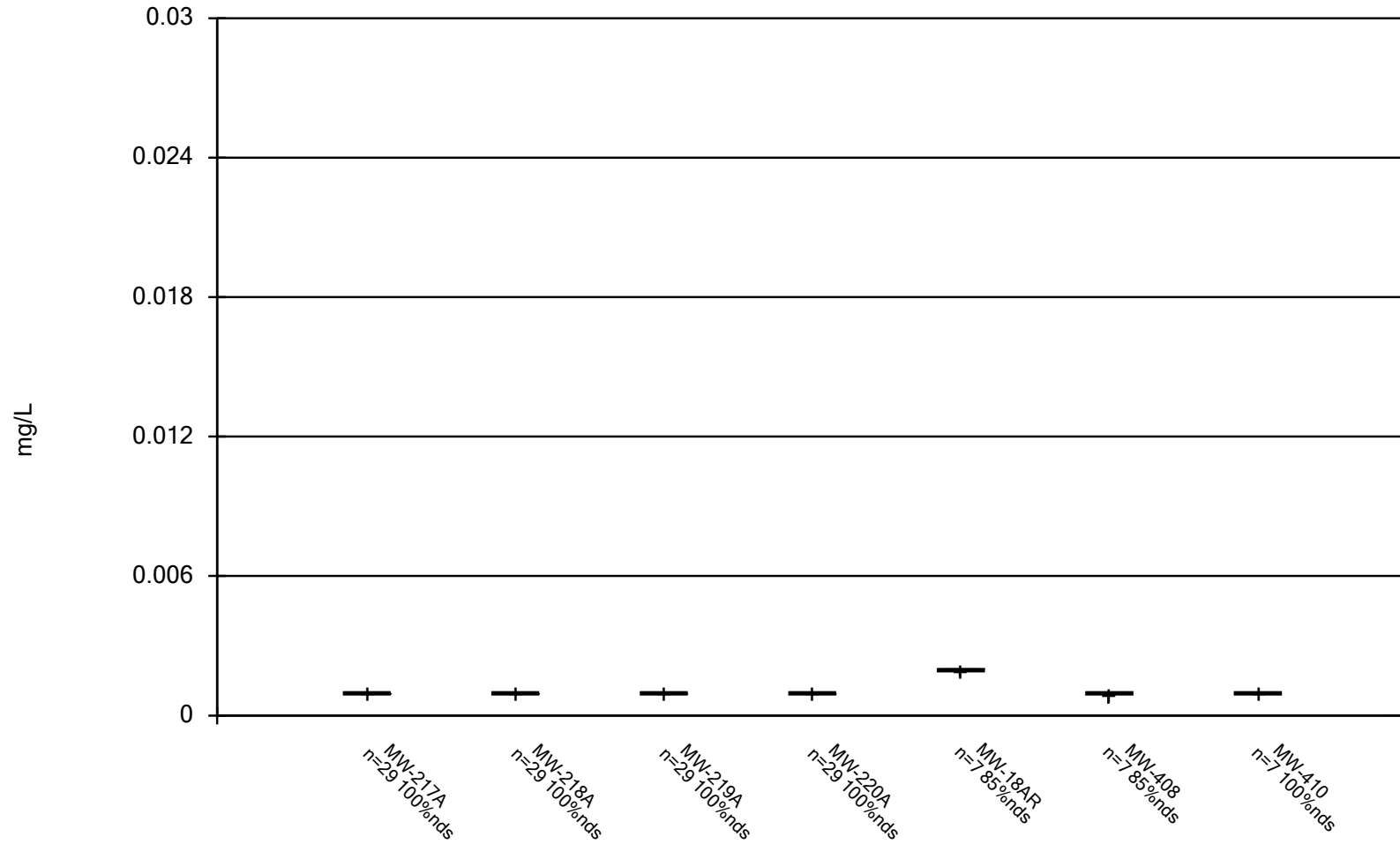
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Box & Whiskers Plot



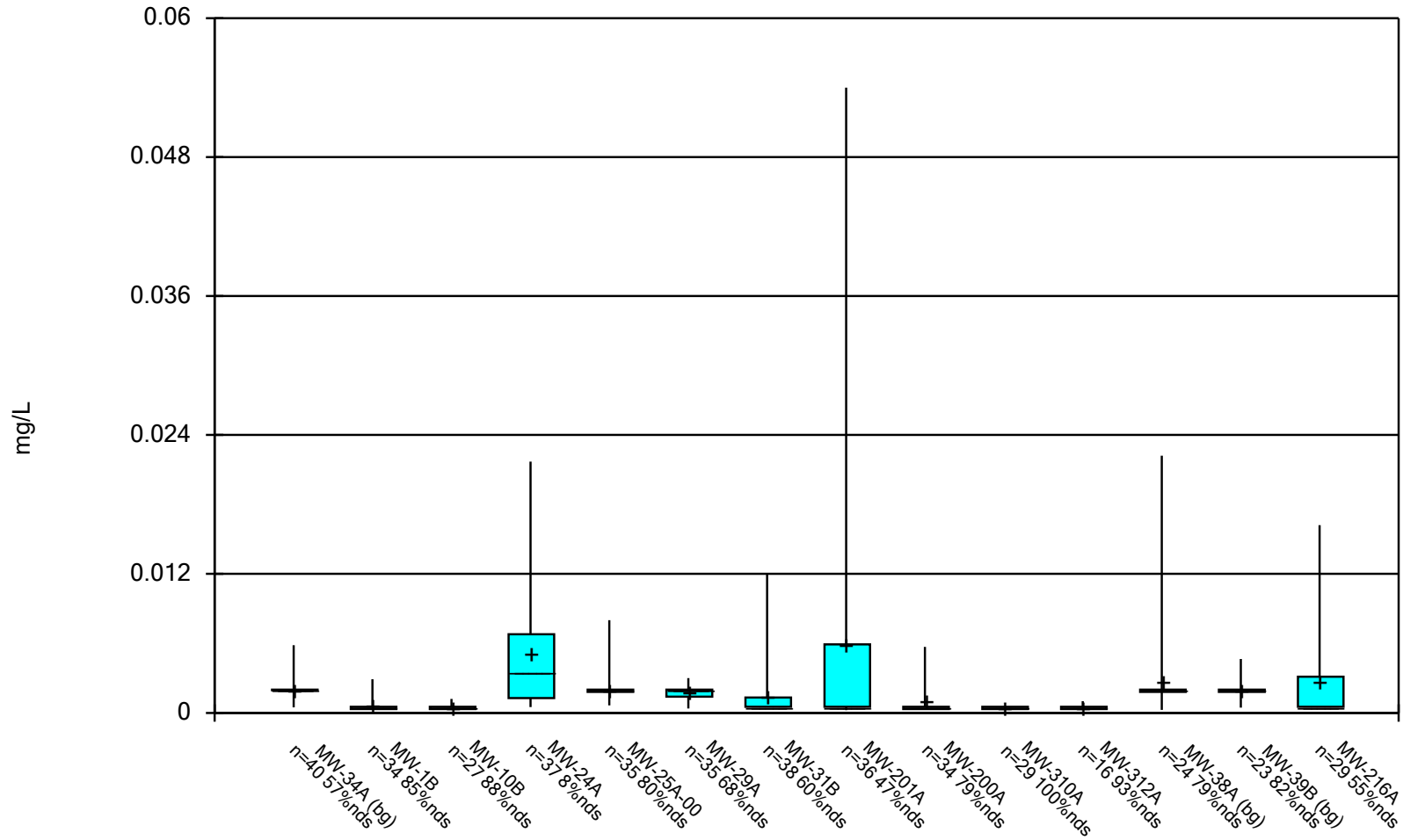
Constituent: Antimony Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



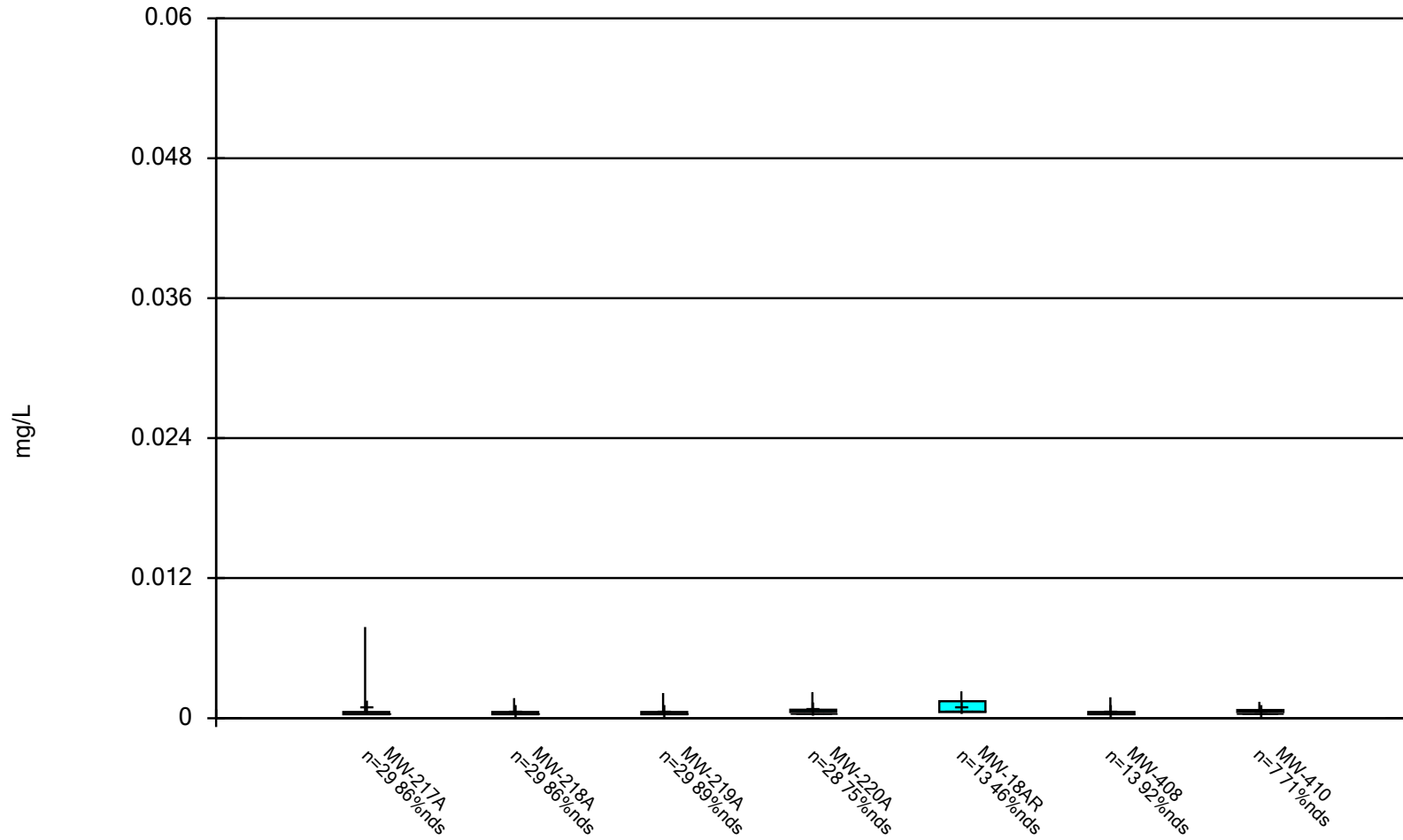
Constituent: Antimony Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



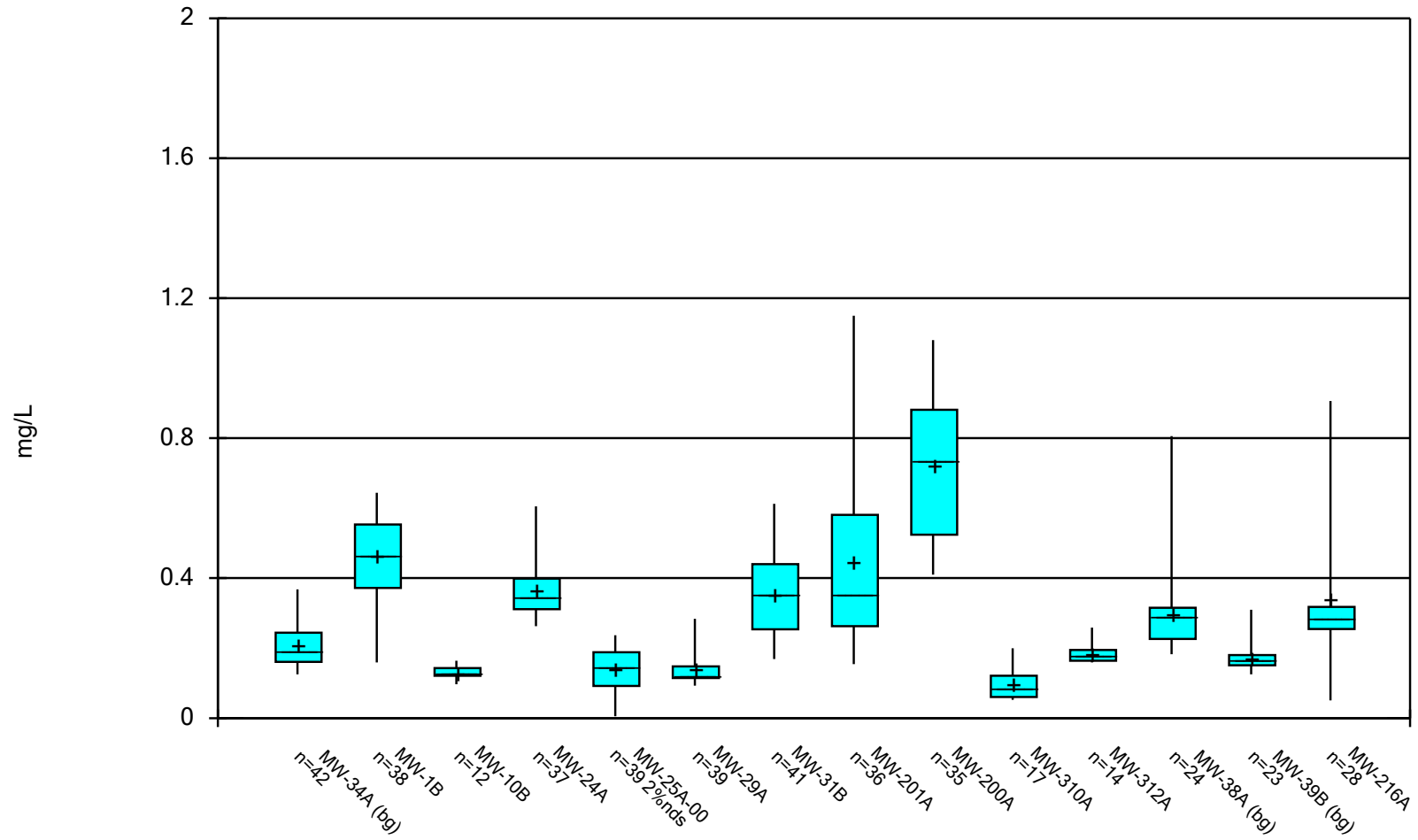
Constituent: Arsenic Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



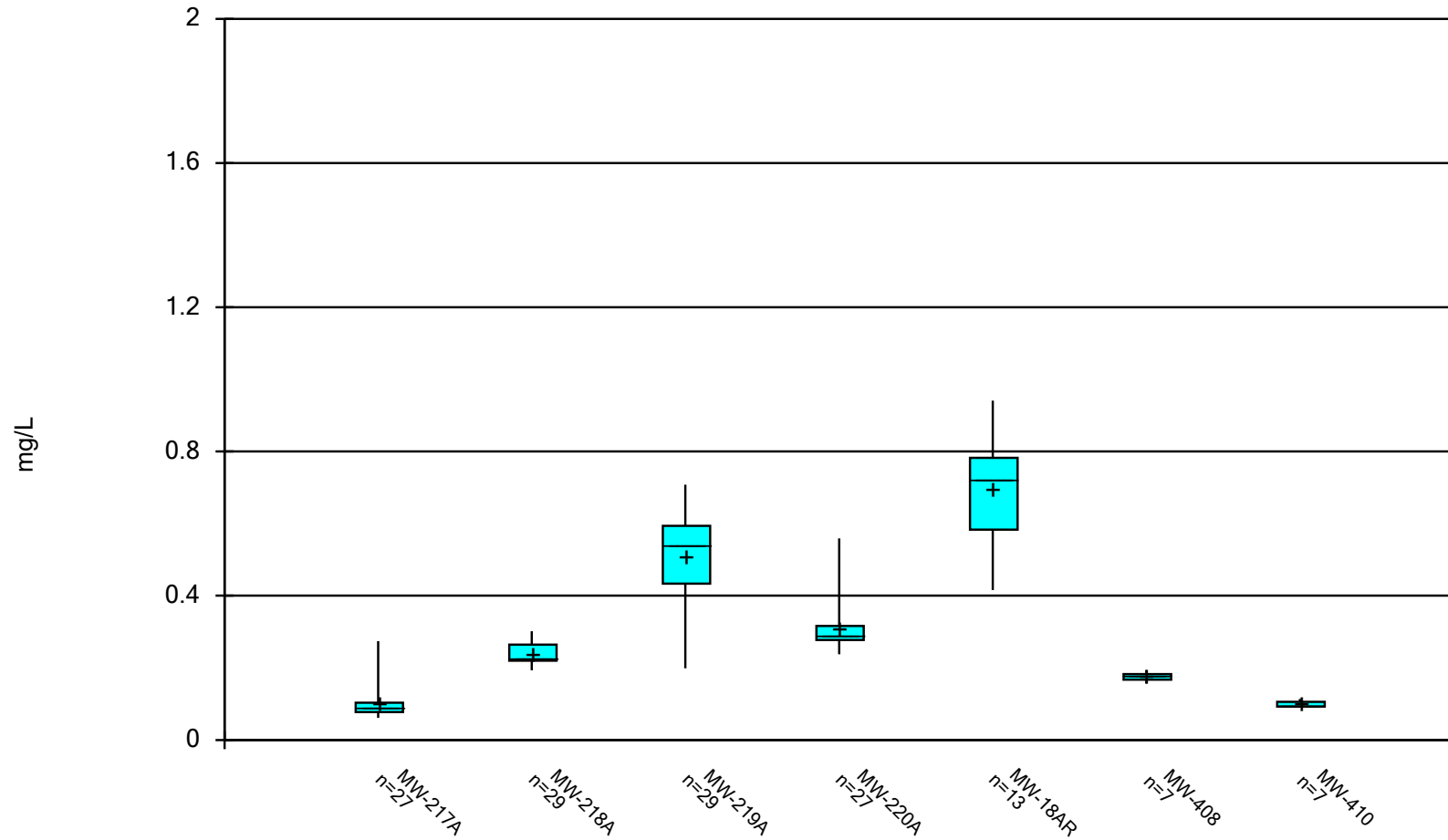
Constituent: Arsenic Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



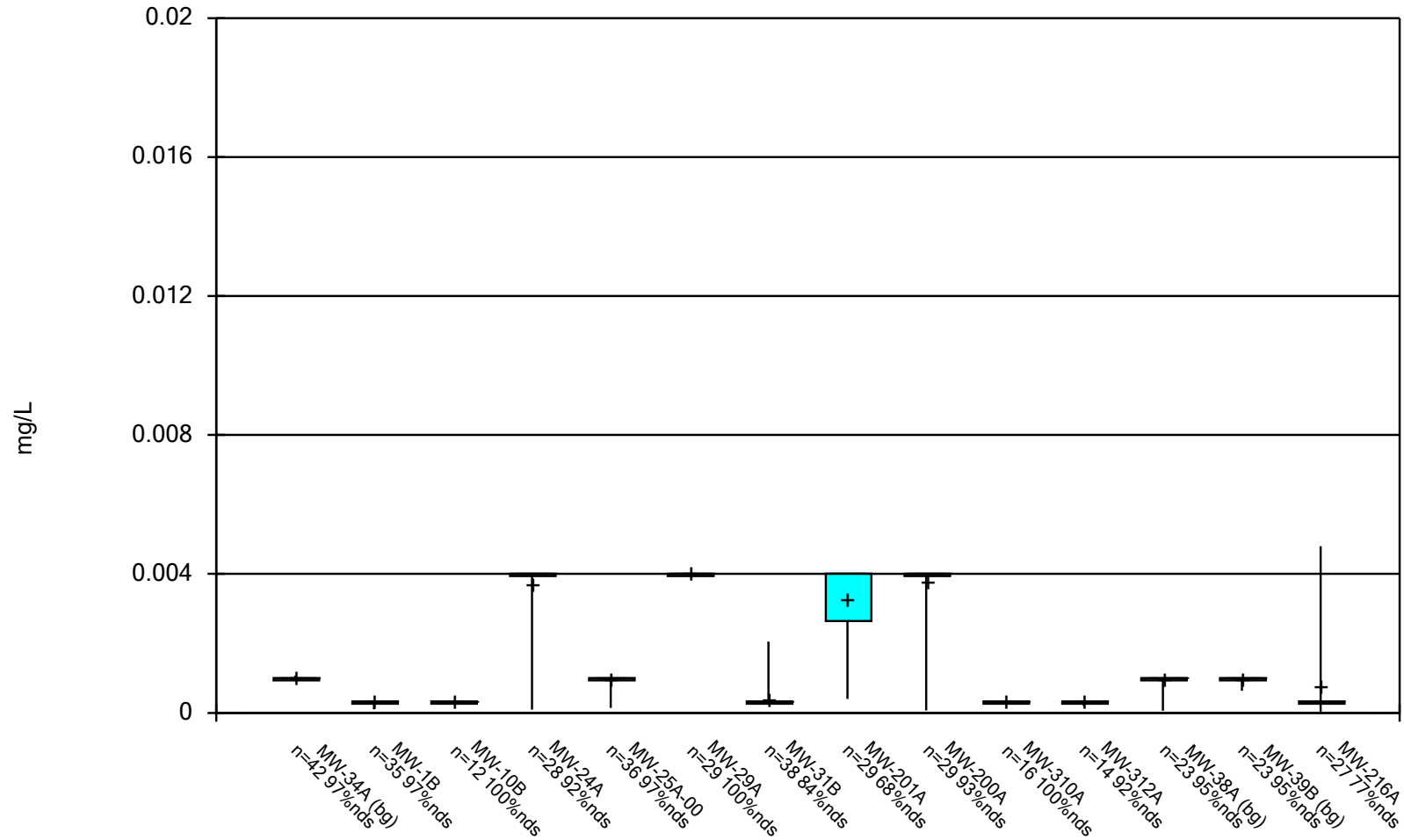
Constituent: Barium Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



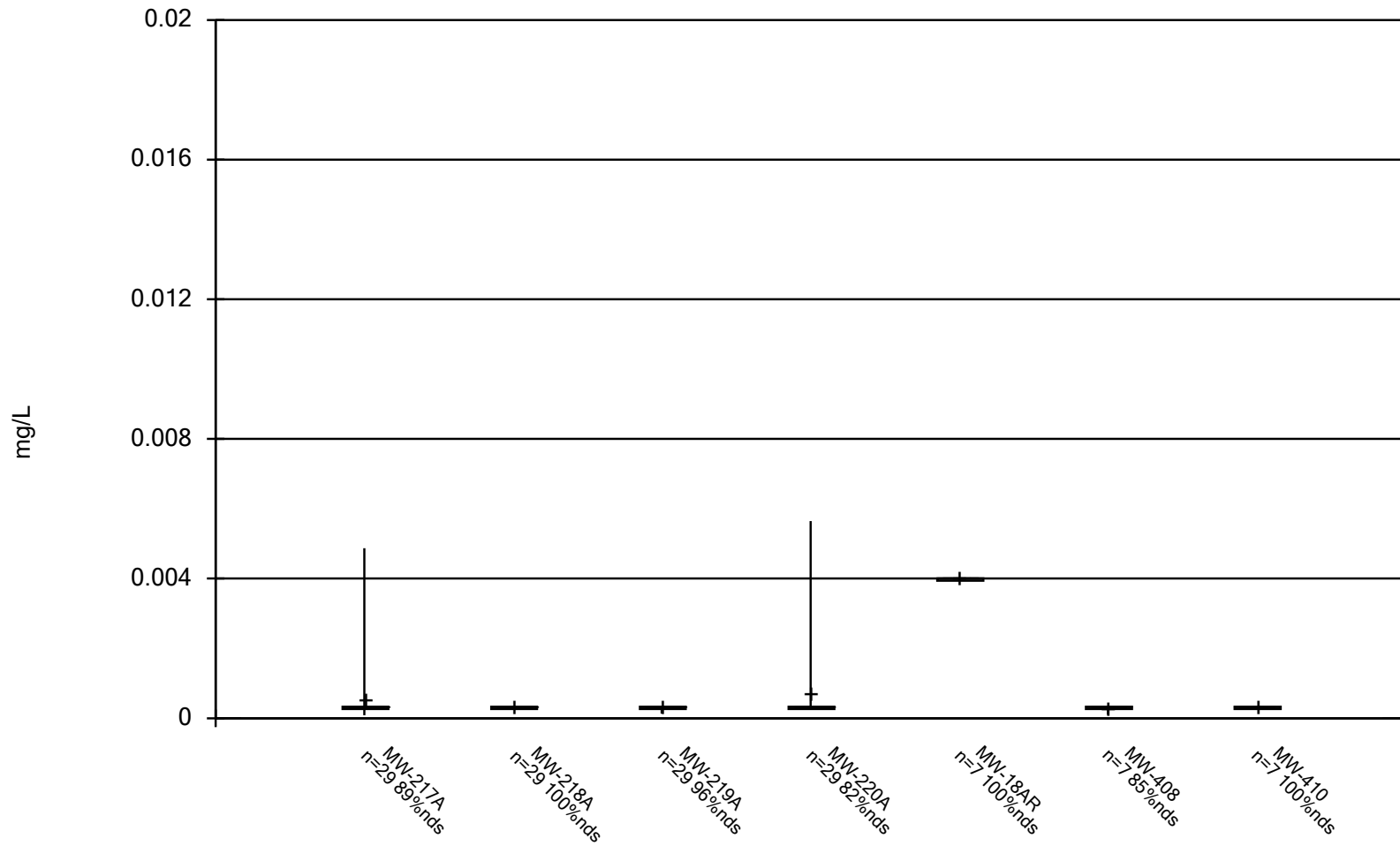
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



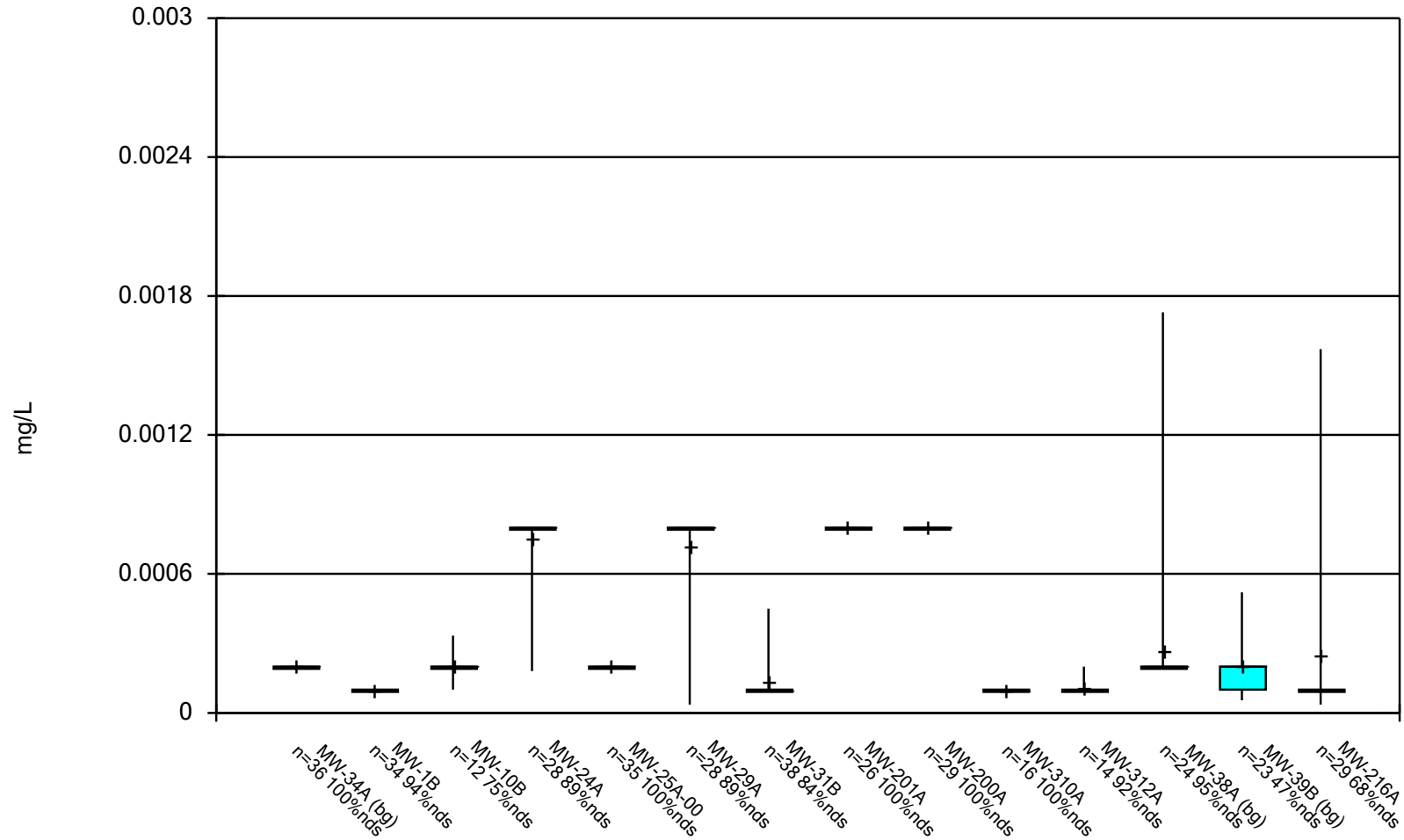
Constituent: Beryllium Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



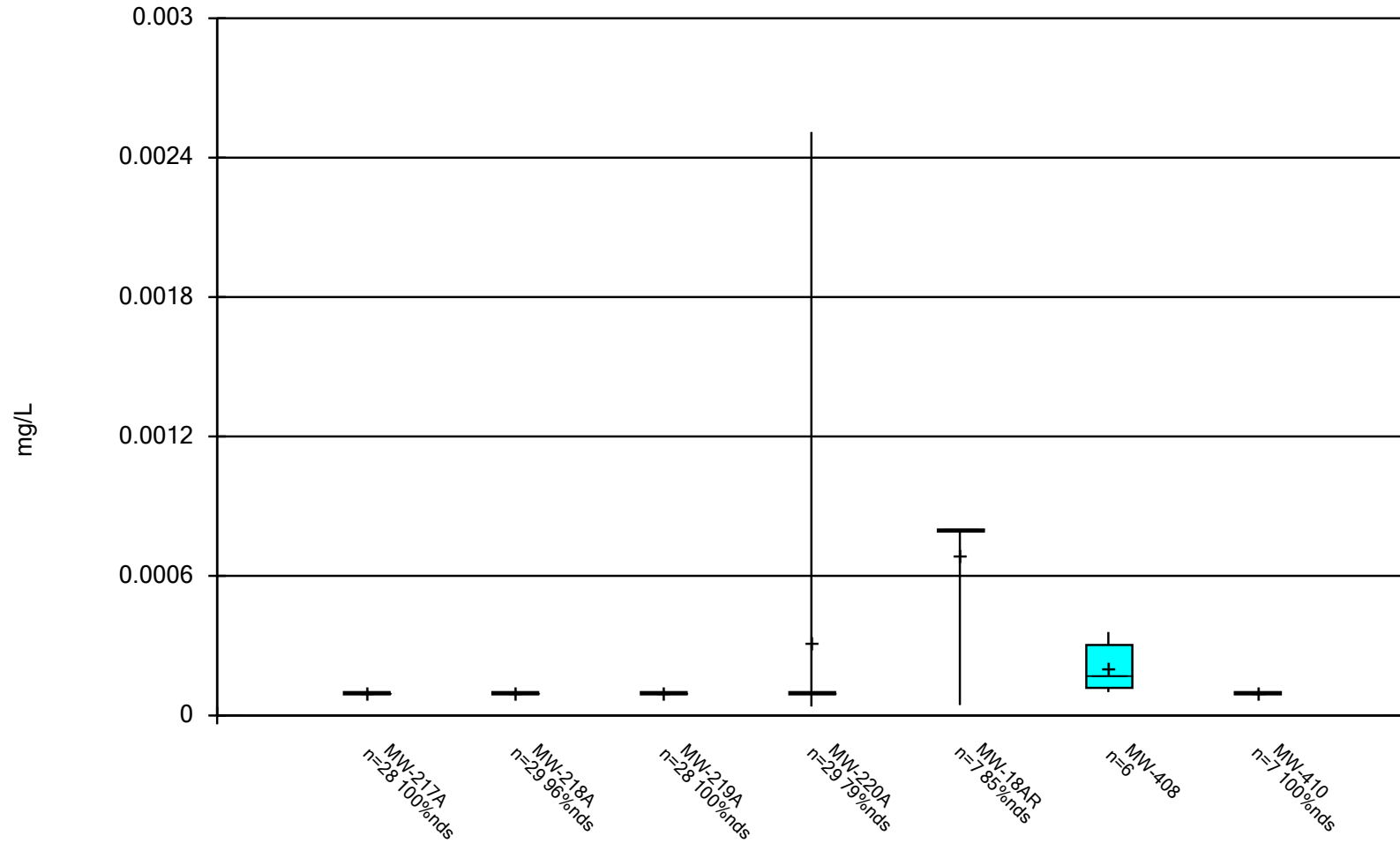
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



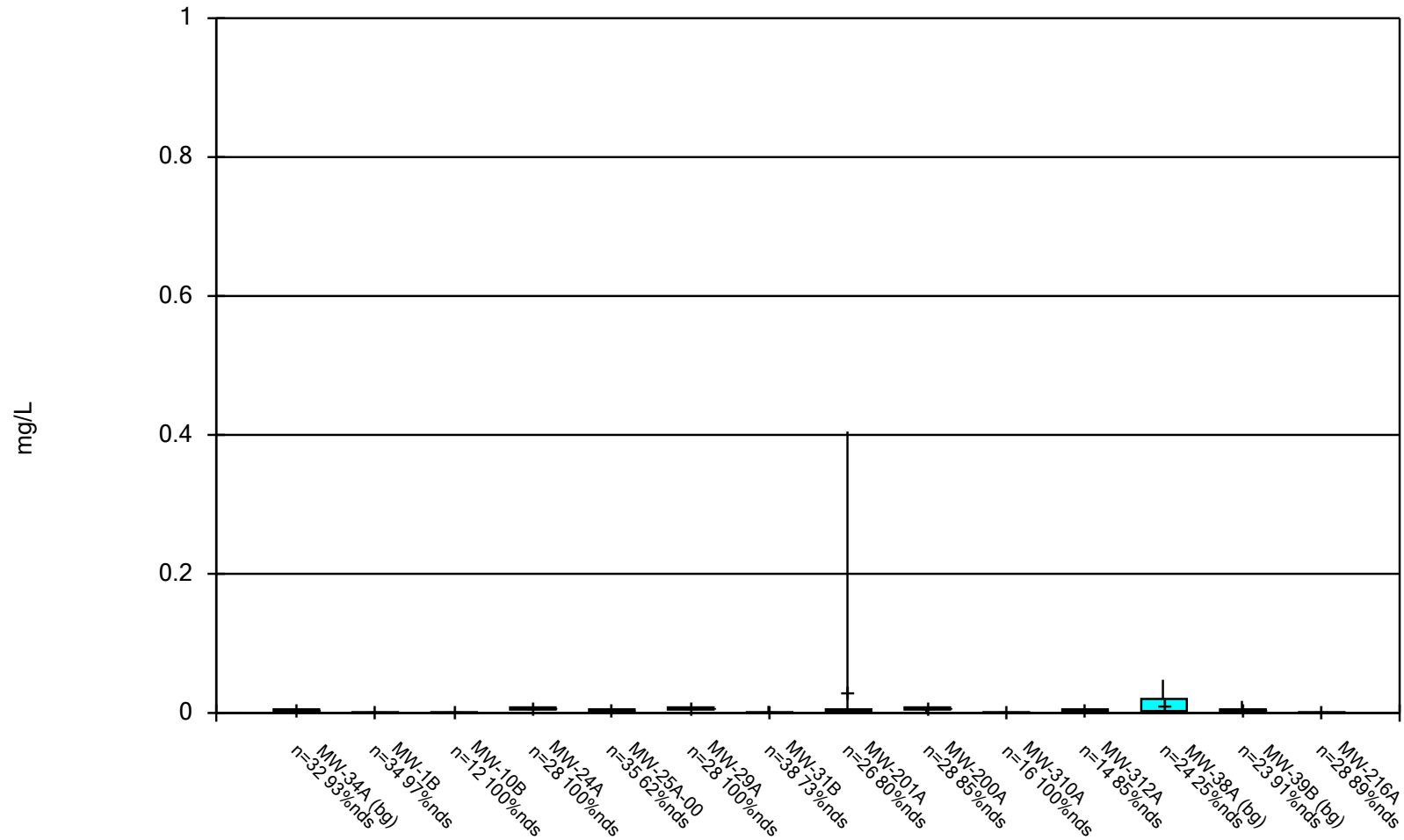
Constituent: Cadmium Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



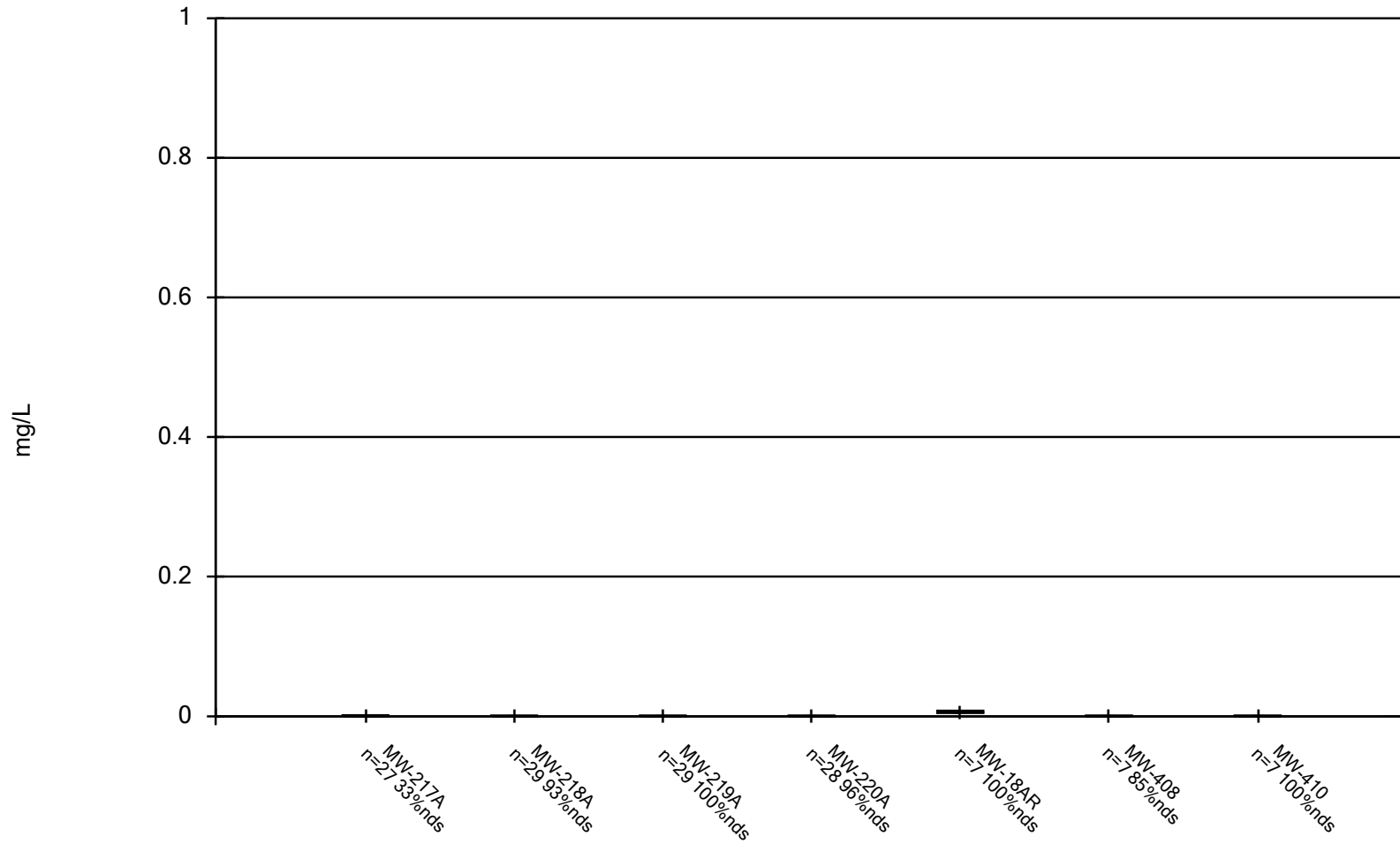
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Box & Whiskers Plot



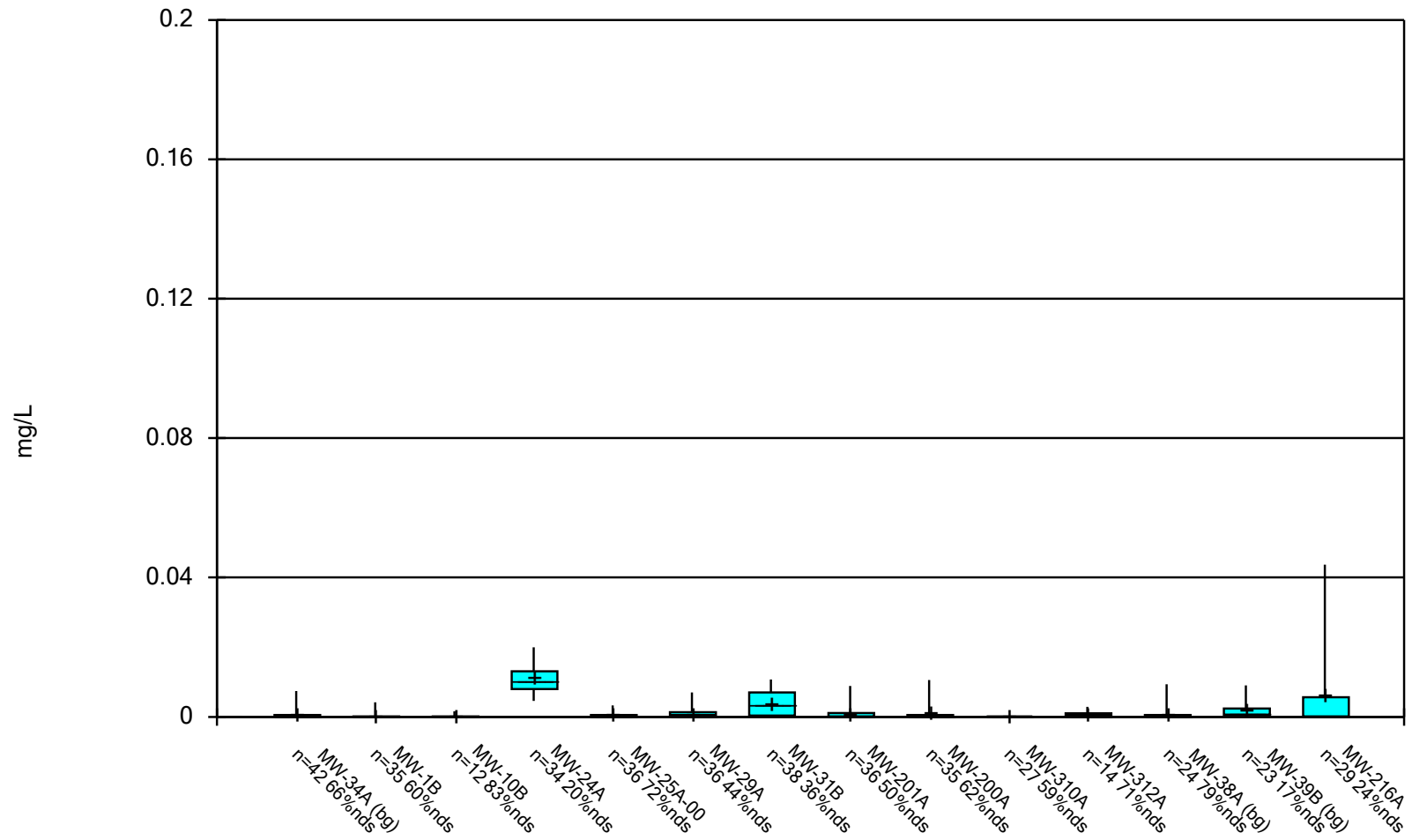
Constituent: Chromium Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



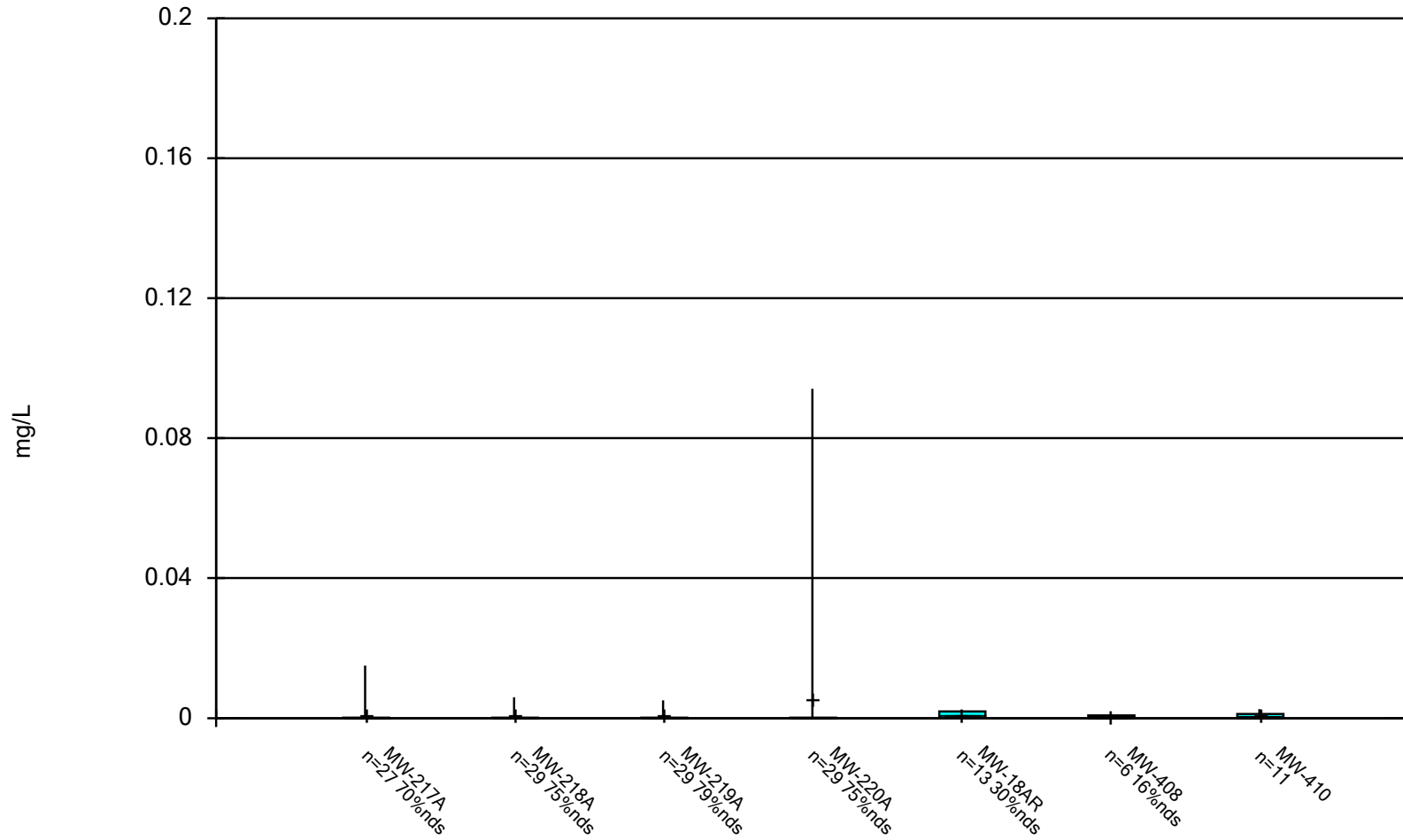
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Box & Whiskers Plot



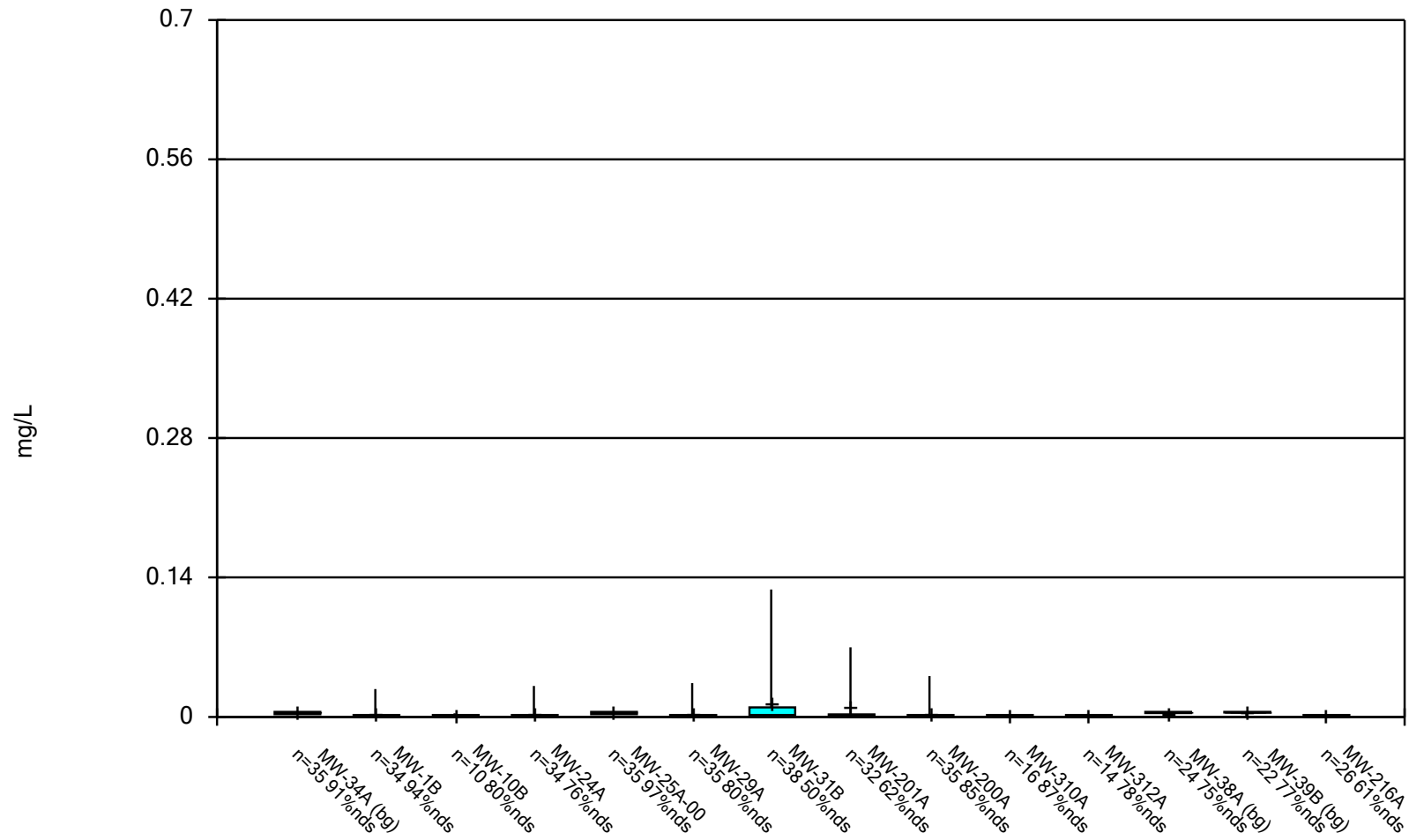
Constituent: Cobalt Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



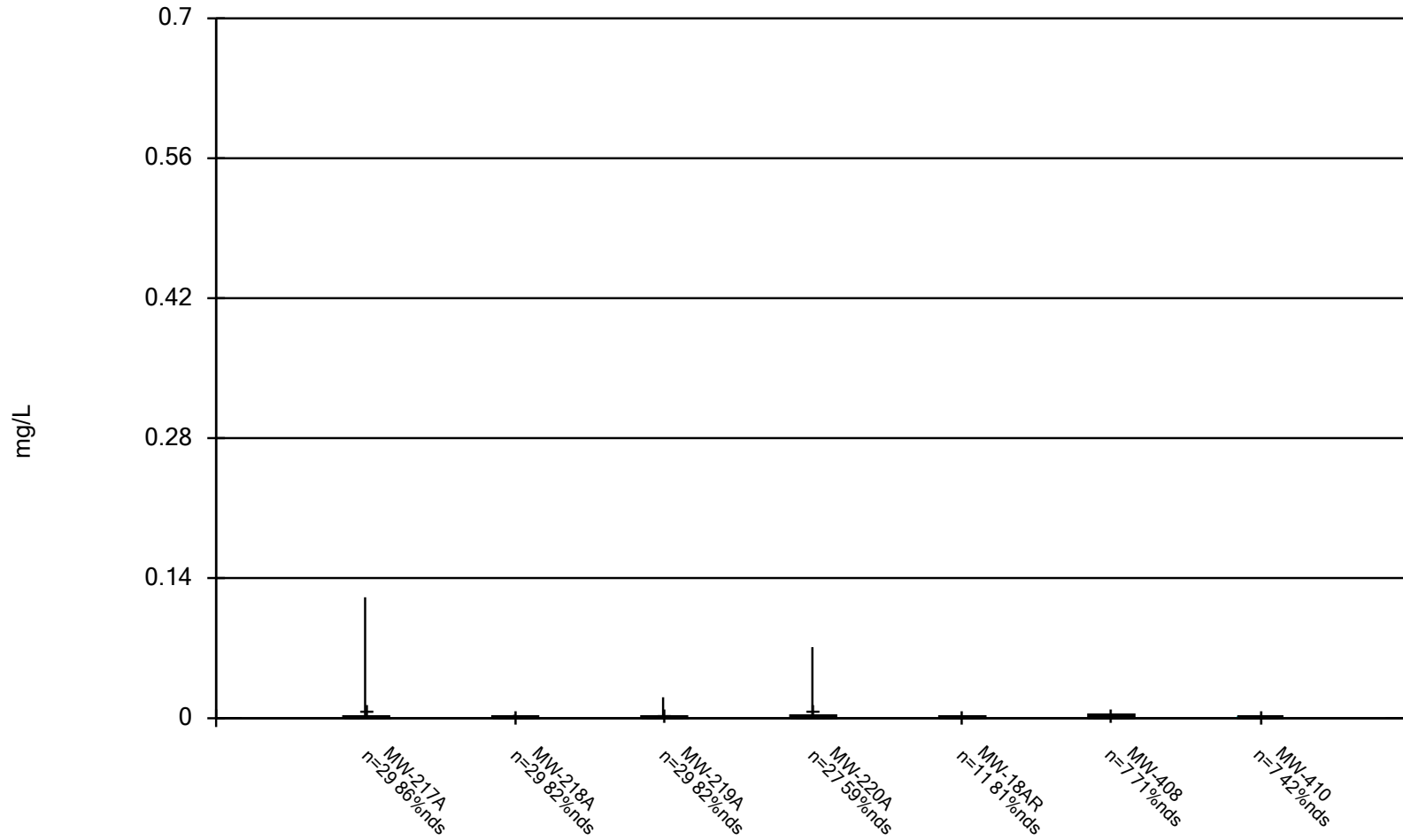
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



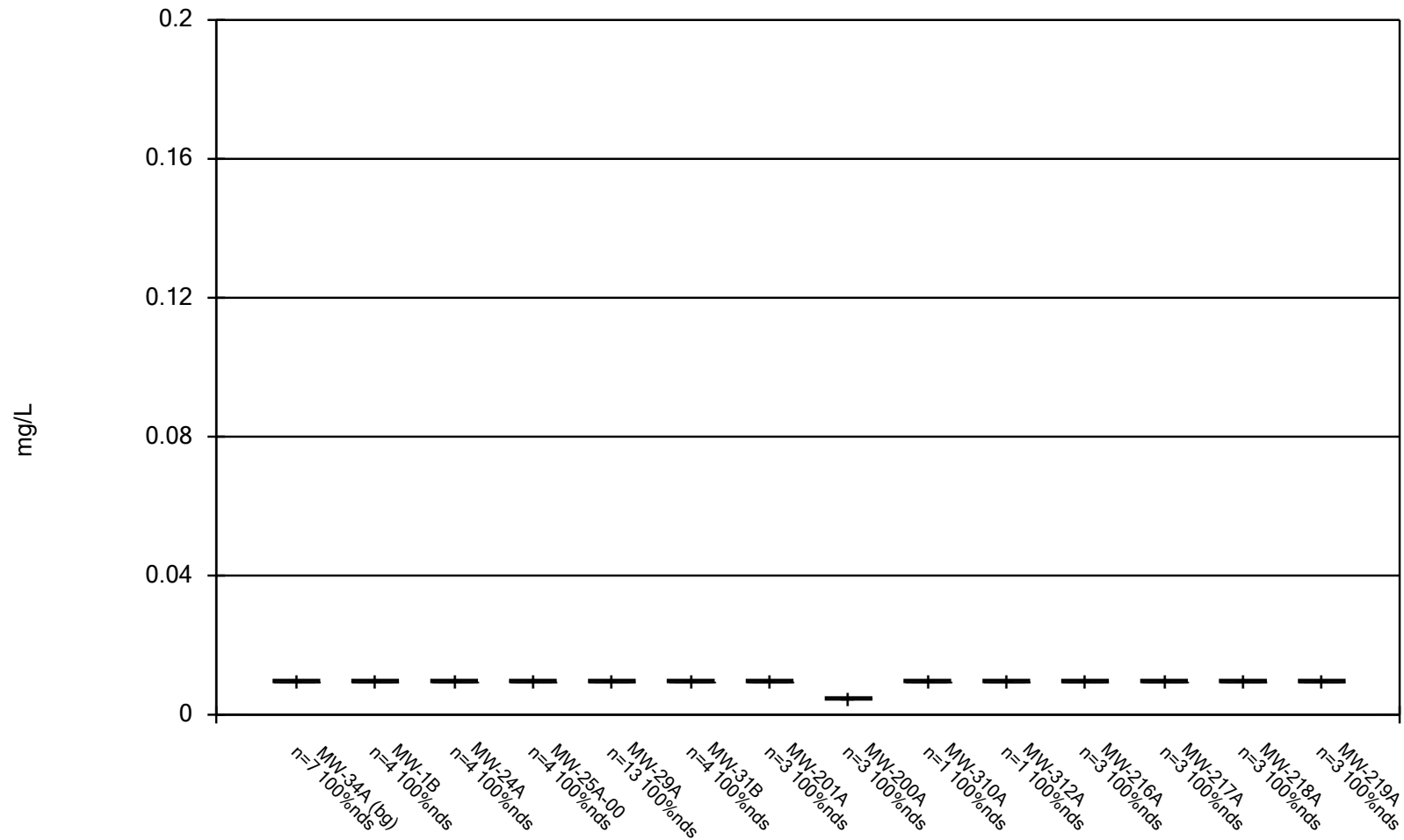
Constituent: Copper Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



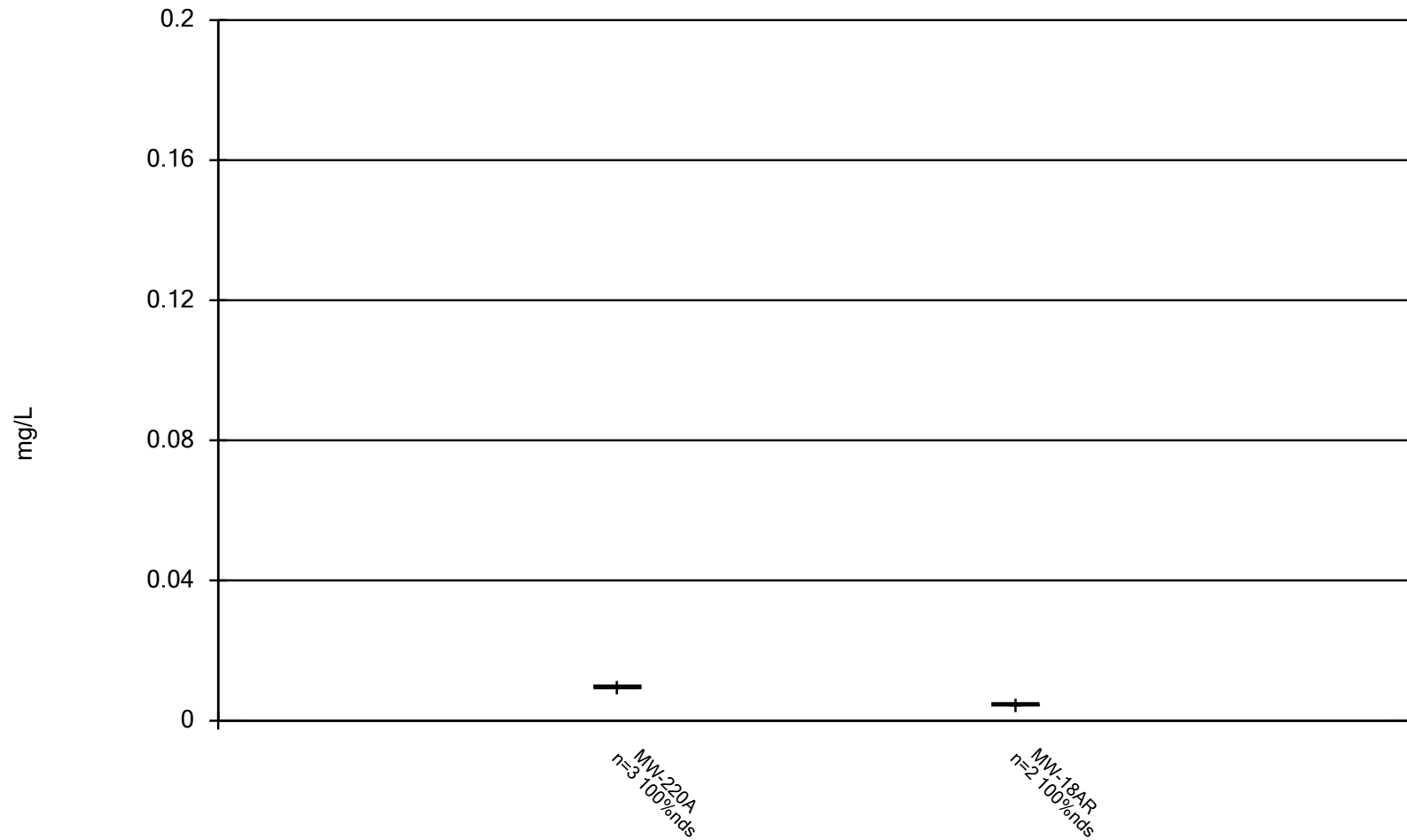
Constituent: Copper Analysis Run 1/23/2025 4:49 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



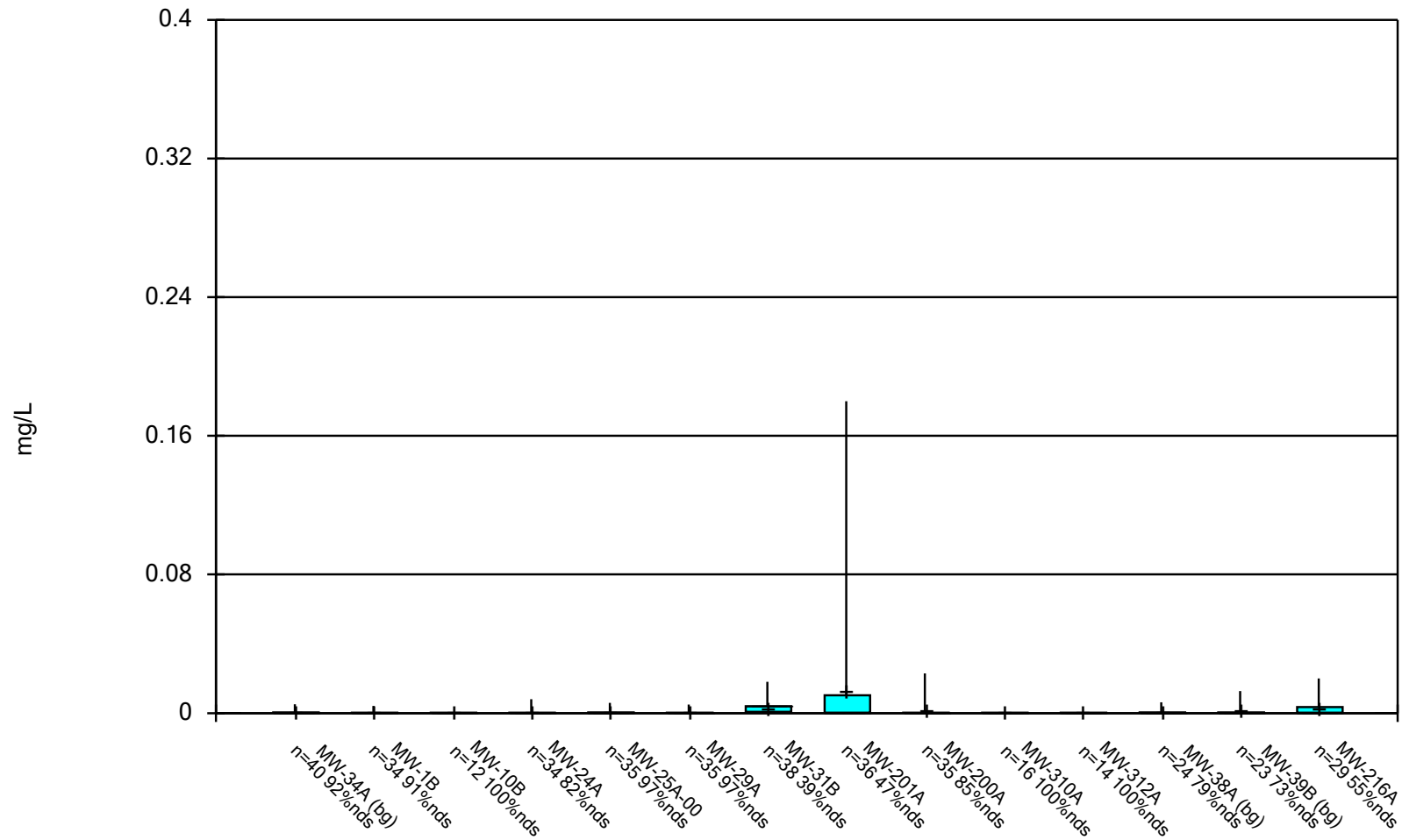
Constituent: Cyanide Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



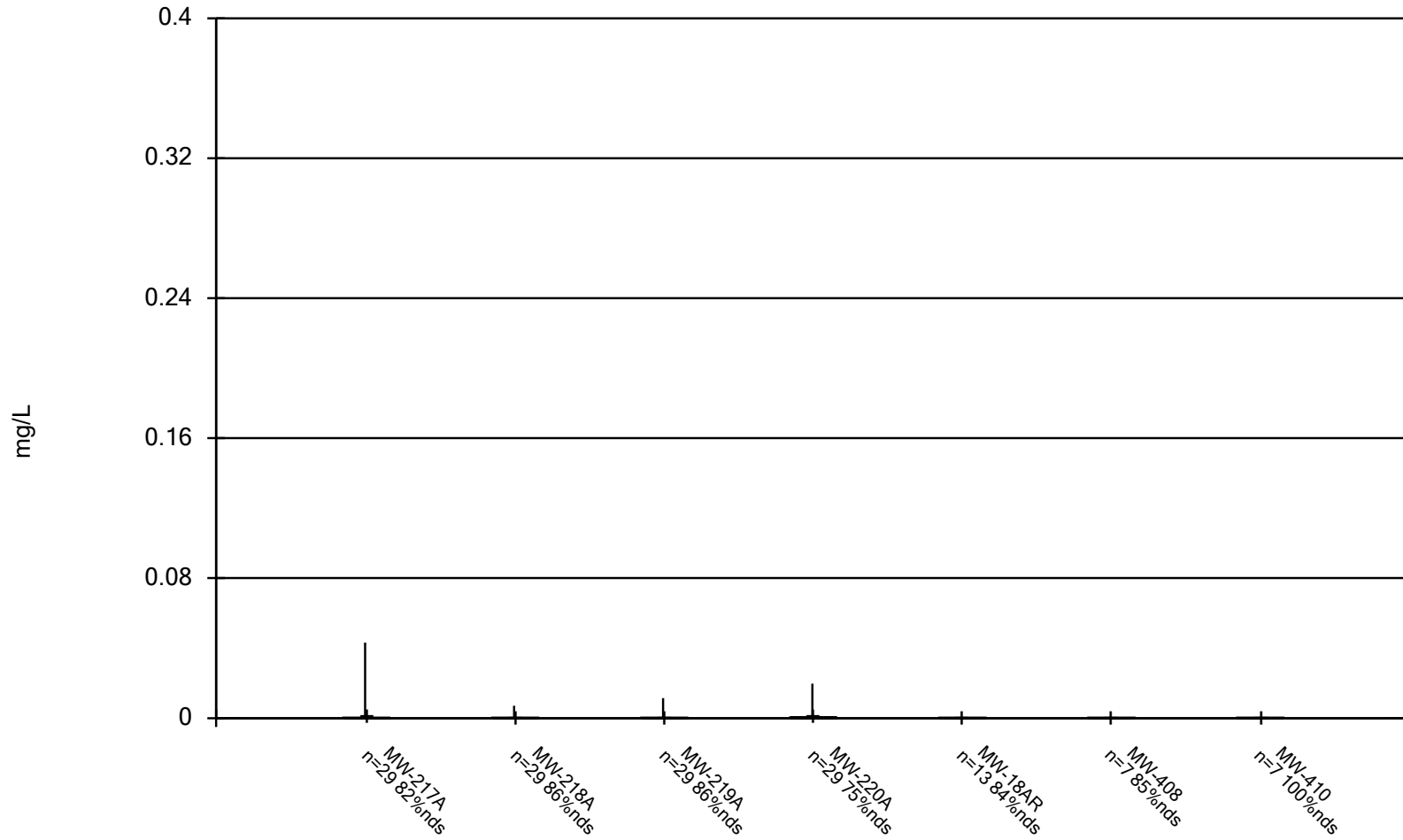
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



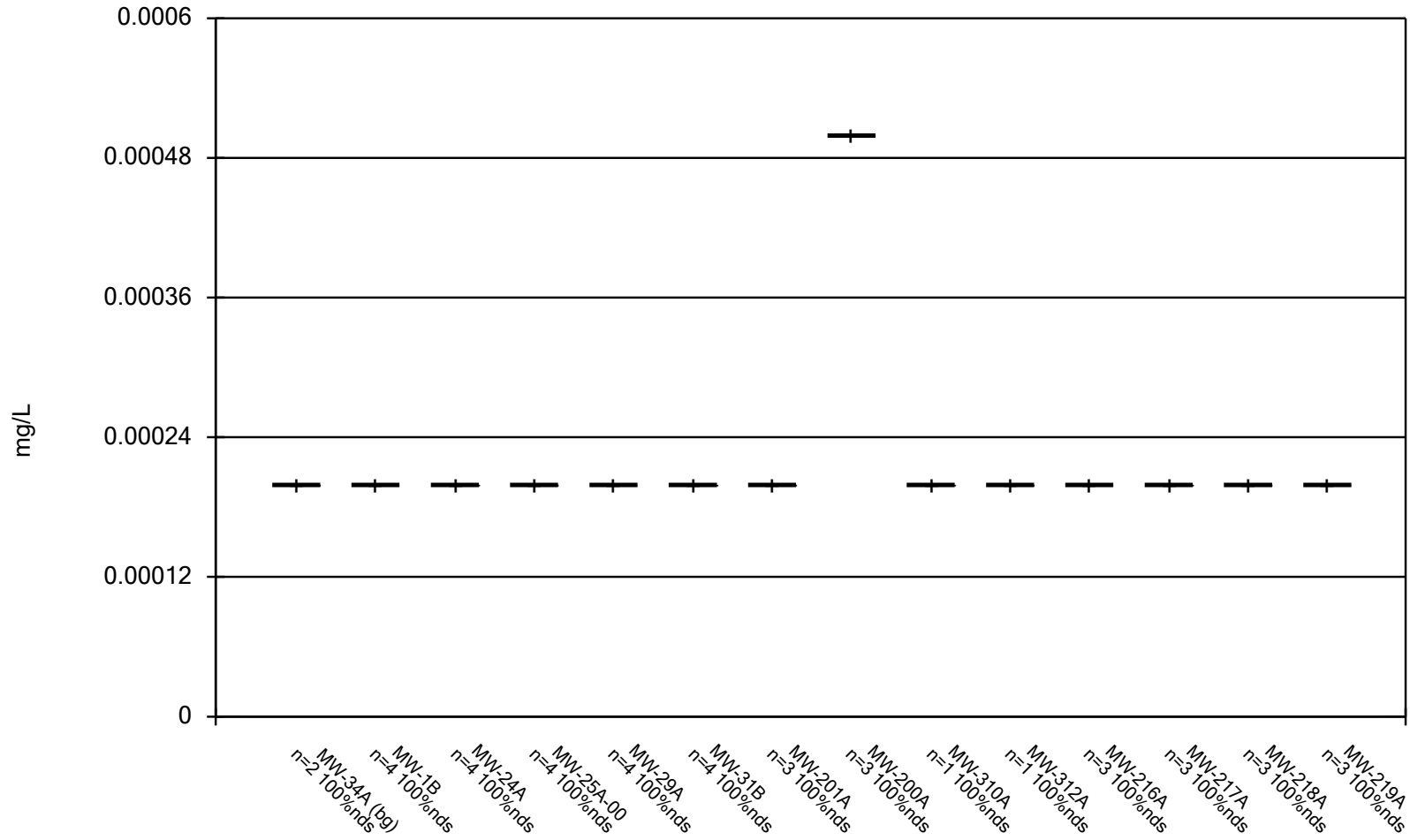
Constituent: Lead Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



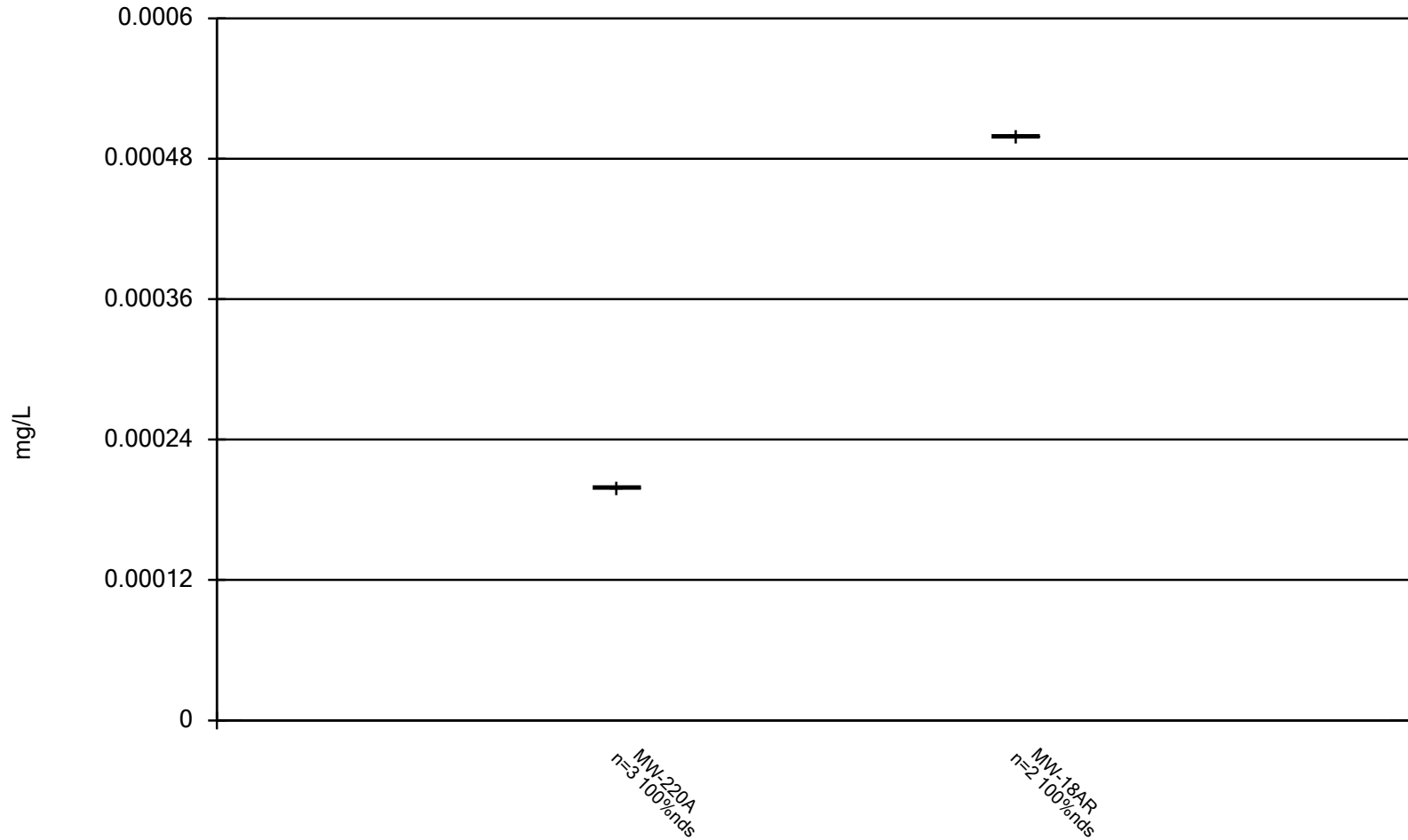
Constituent: Lead Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



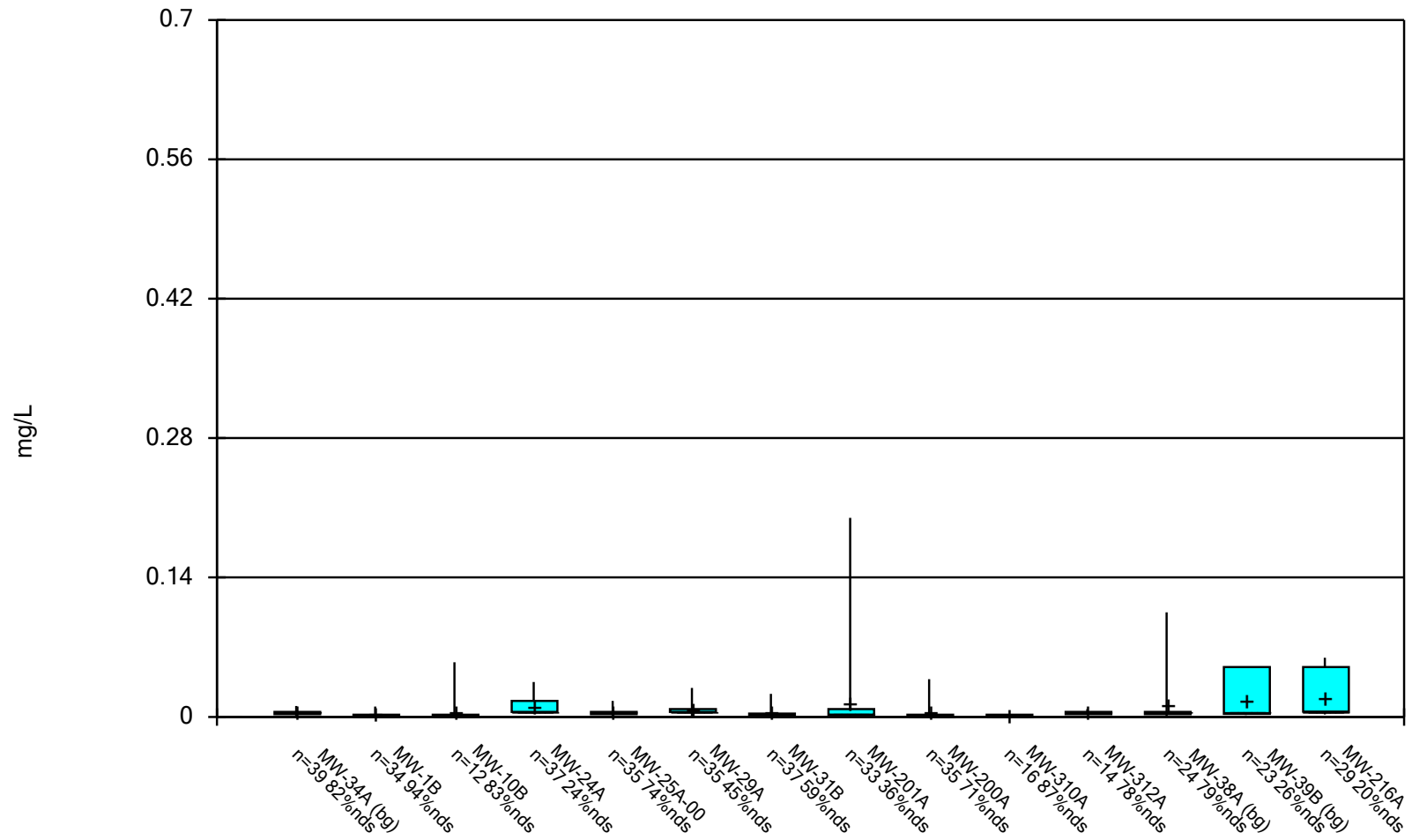
Constituent: Mercury Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Mercury Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

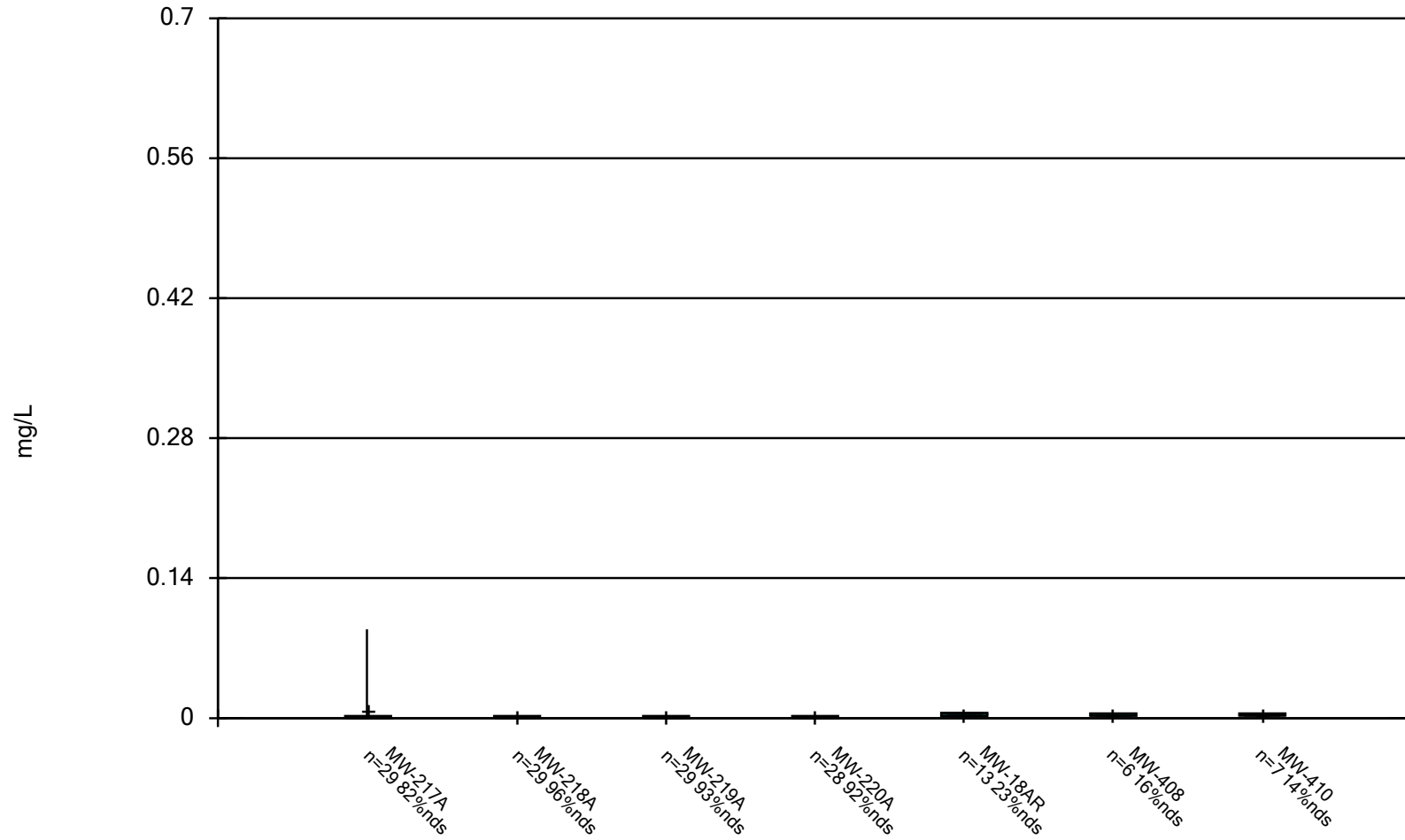
Box & Whiskers Plot



Constituent: Nickel Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall

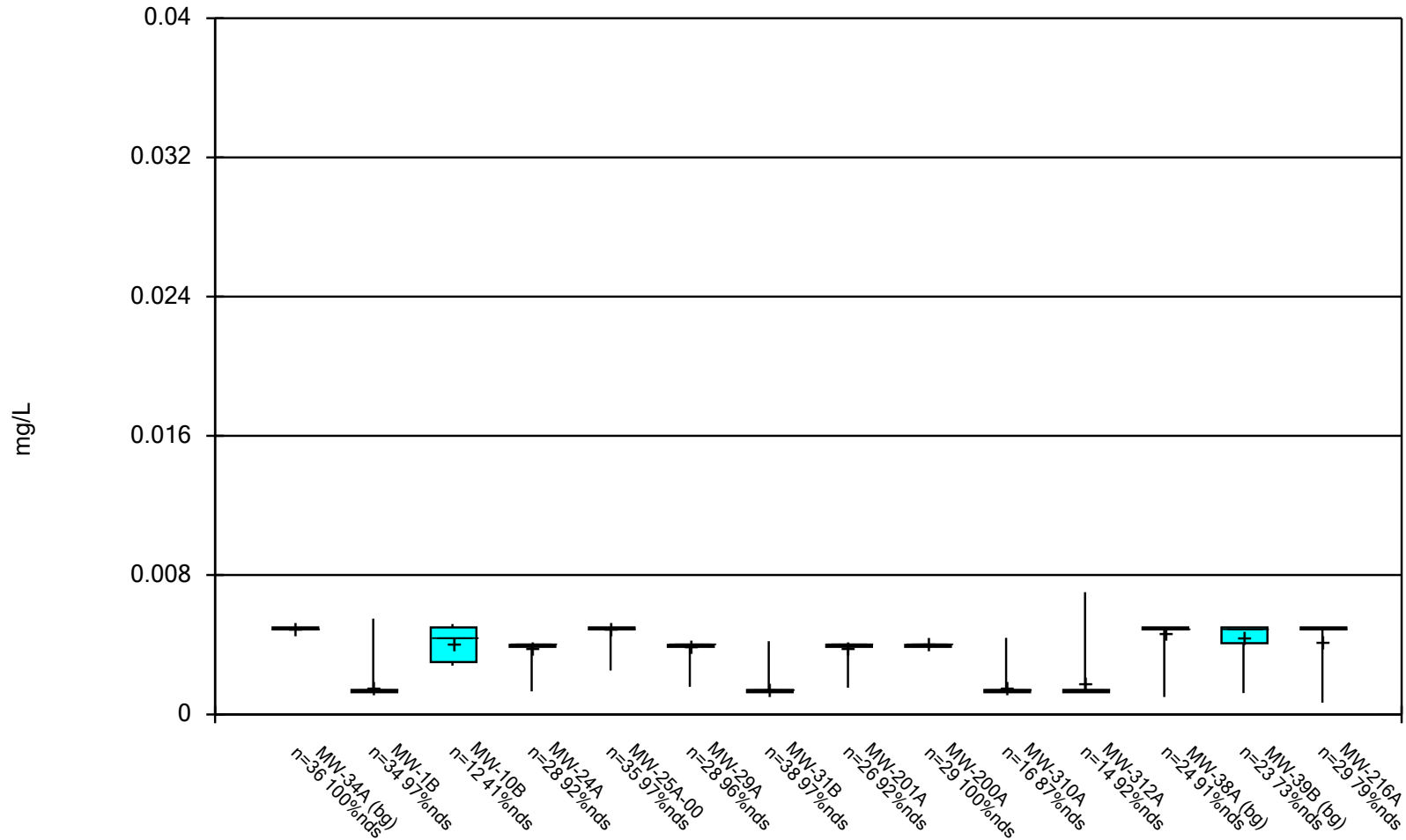
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



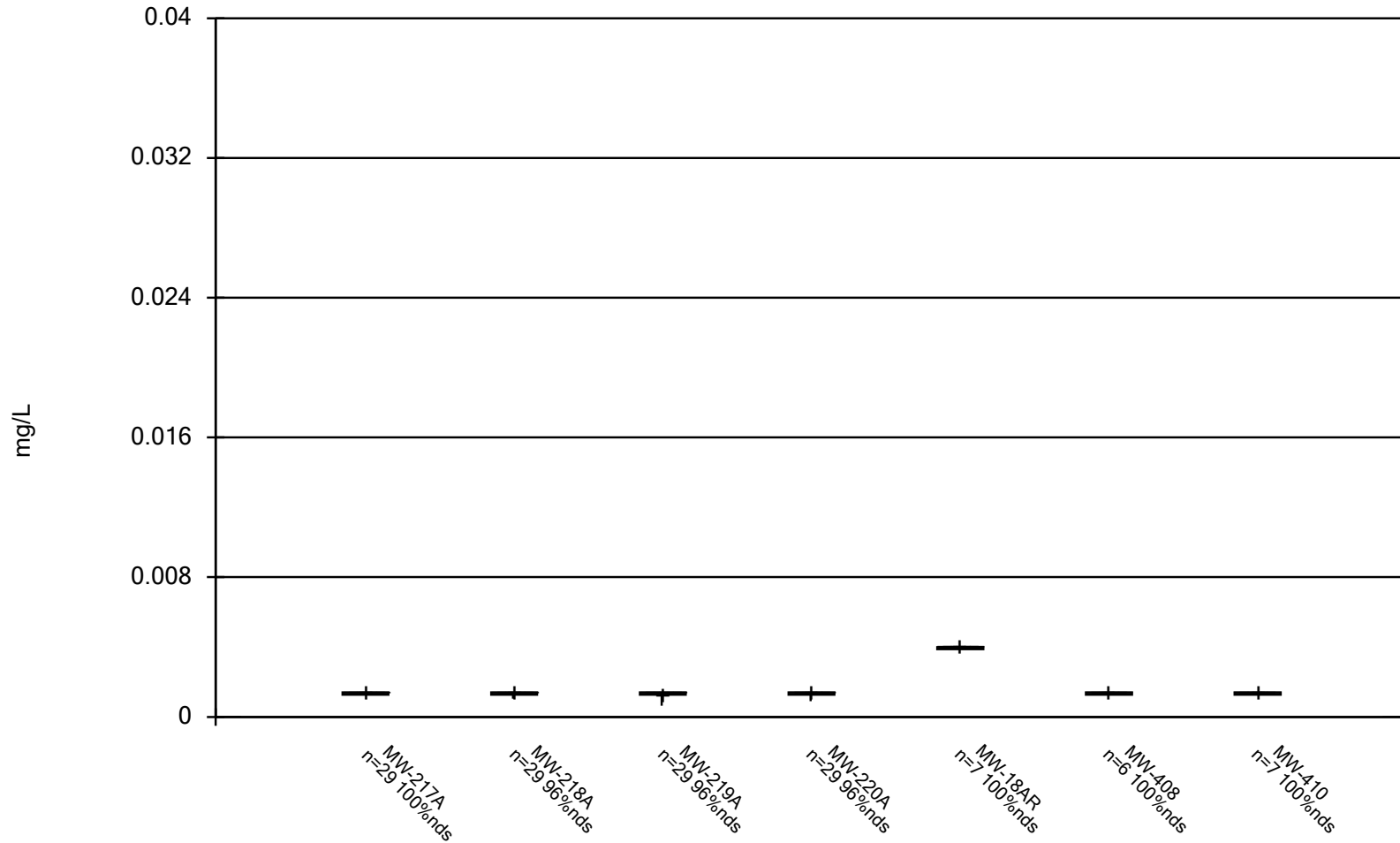
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



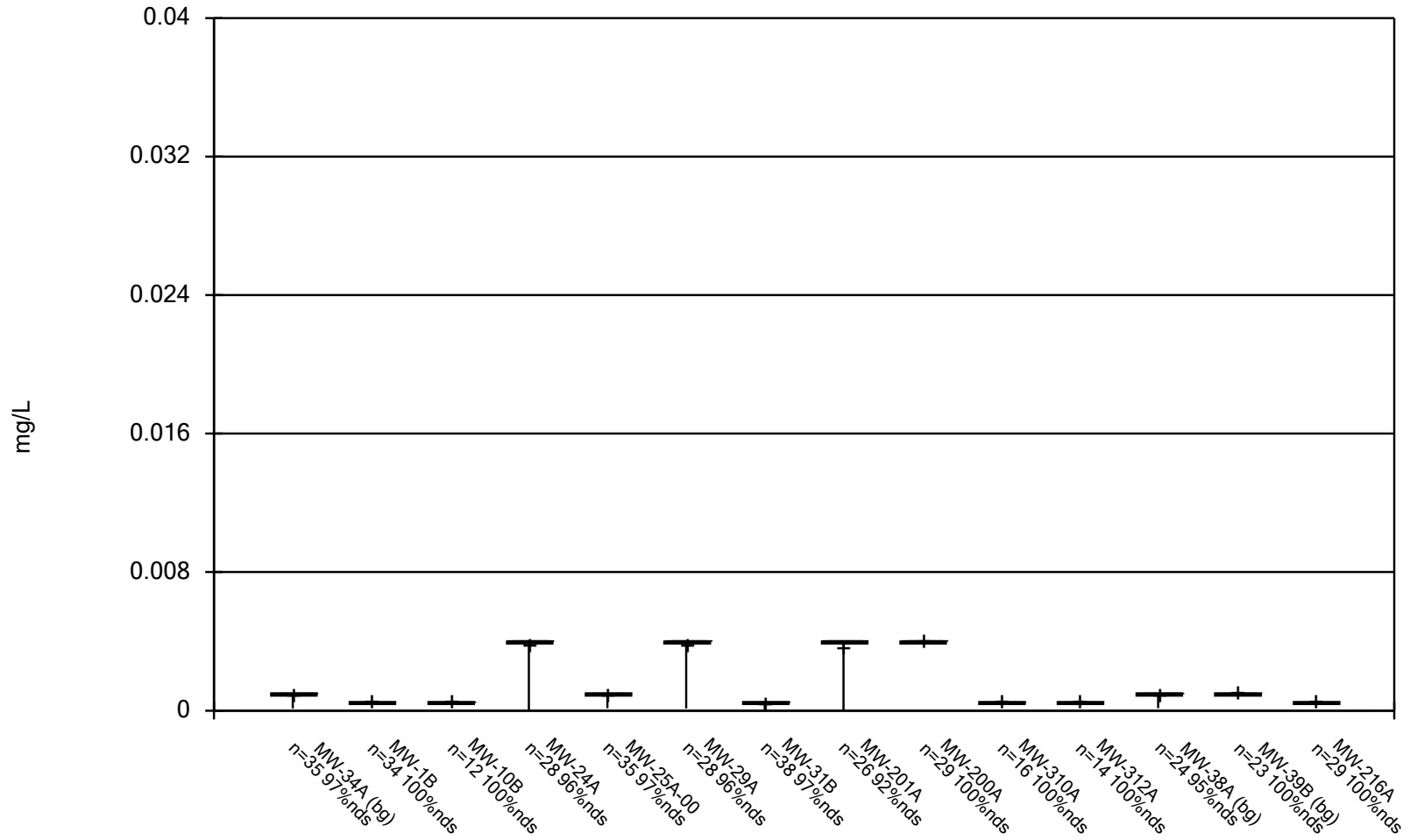
Constituent: Selenium Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



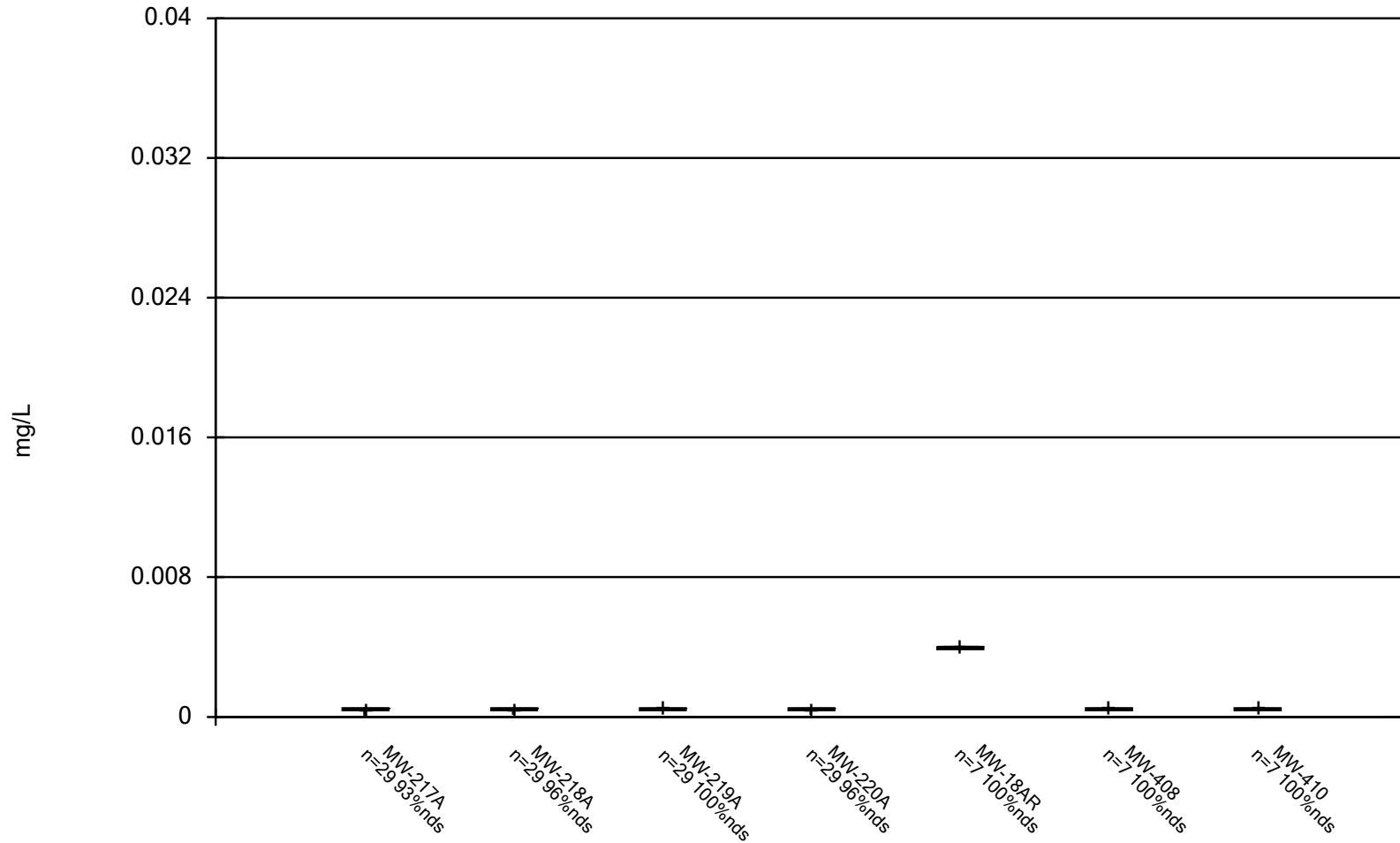
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



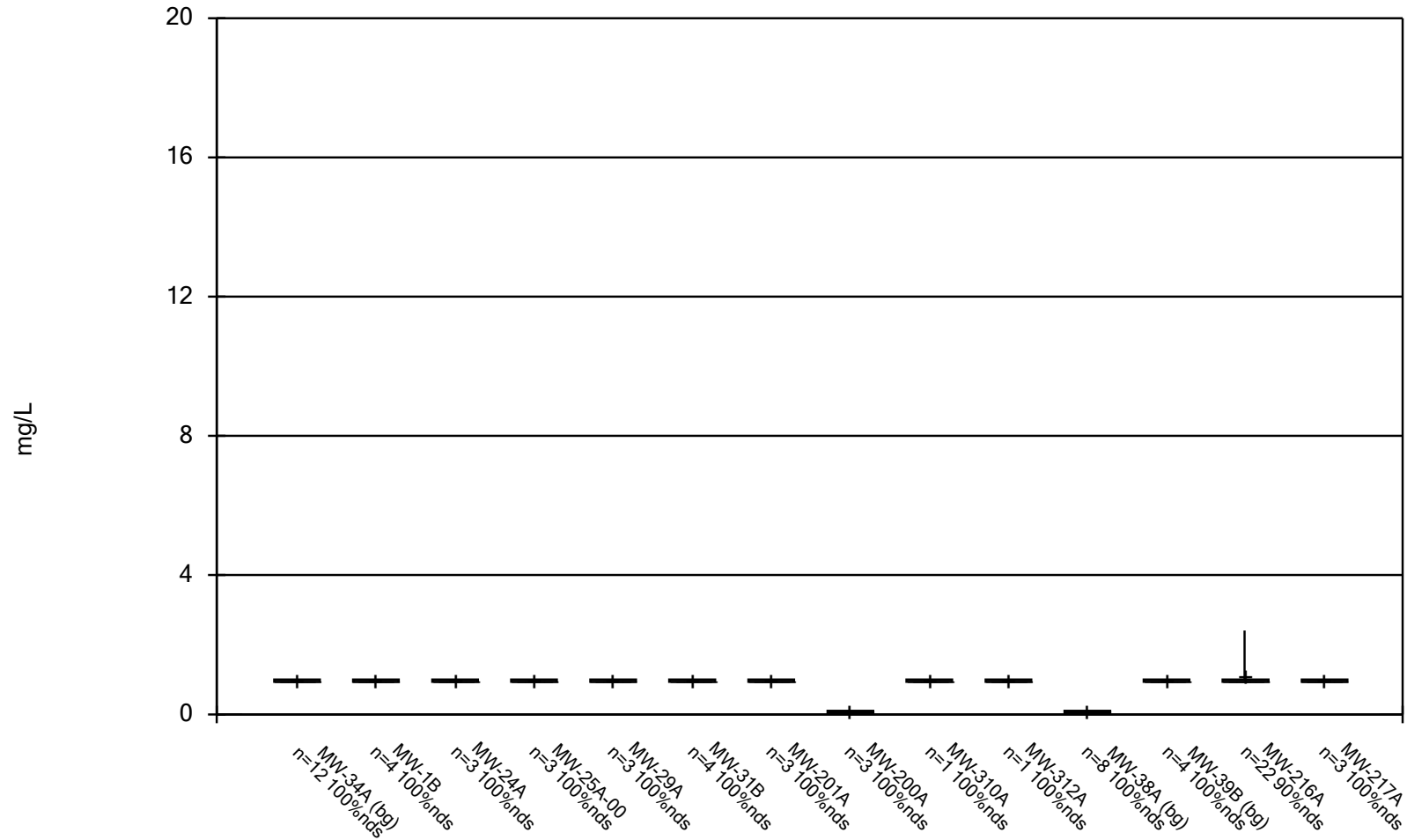
Constituent: Silver Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



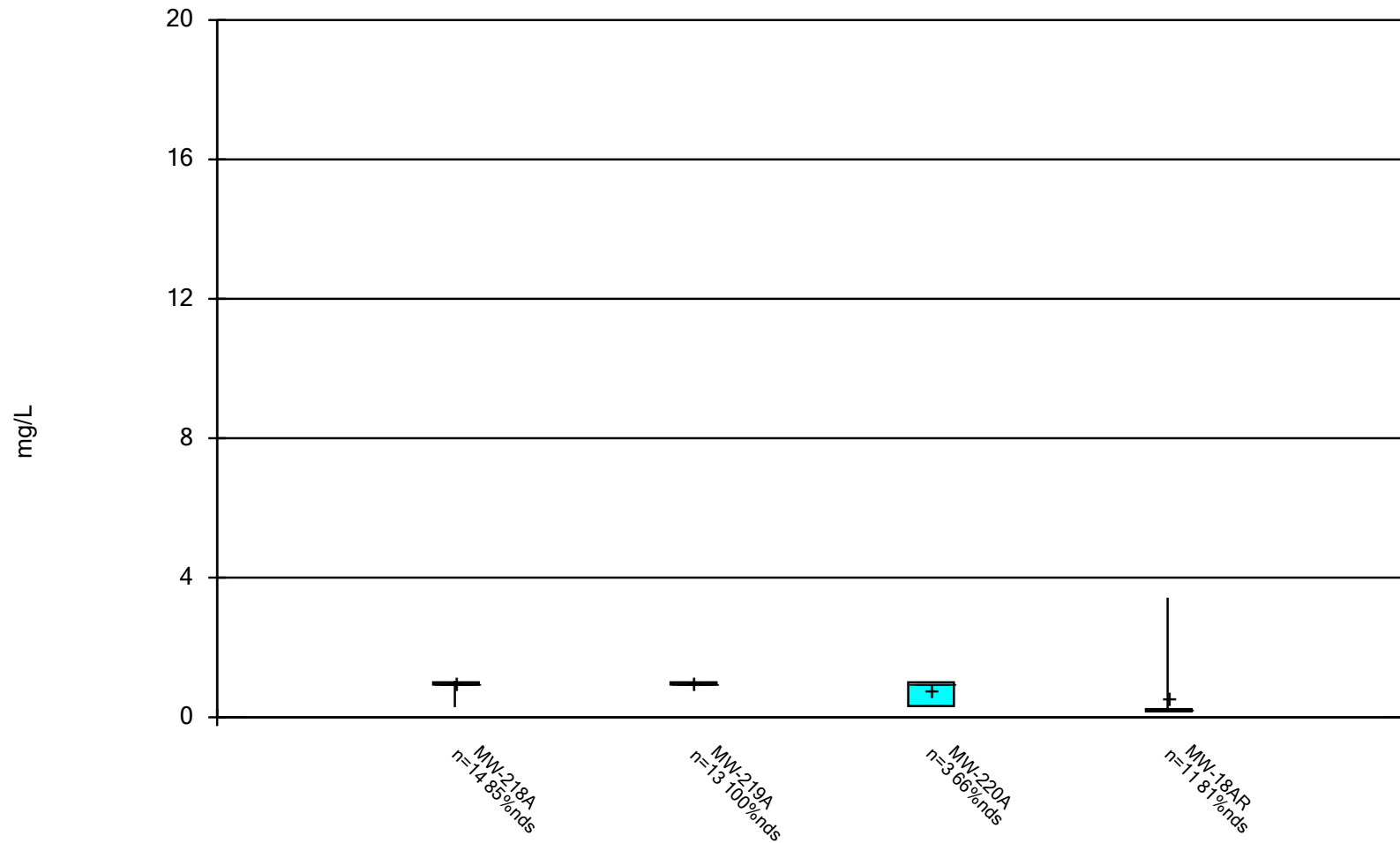
Constituent: Silver Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



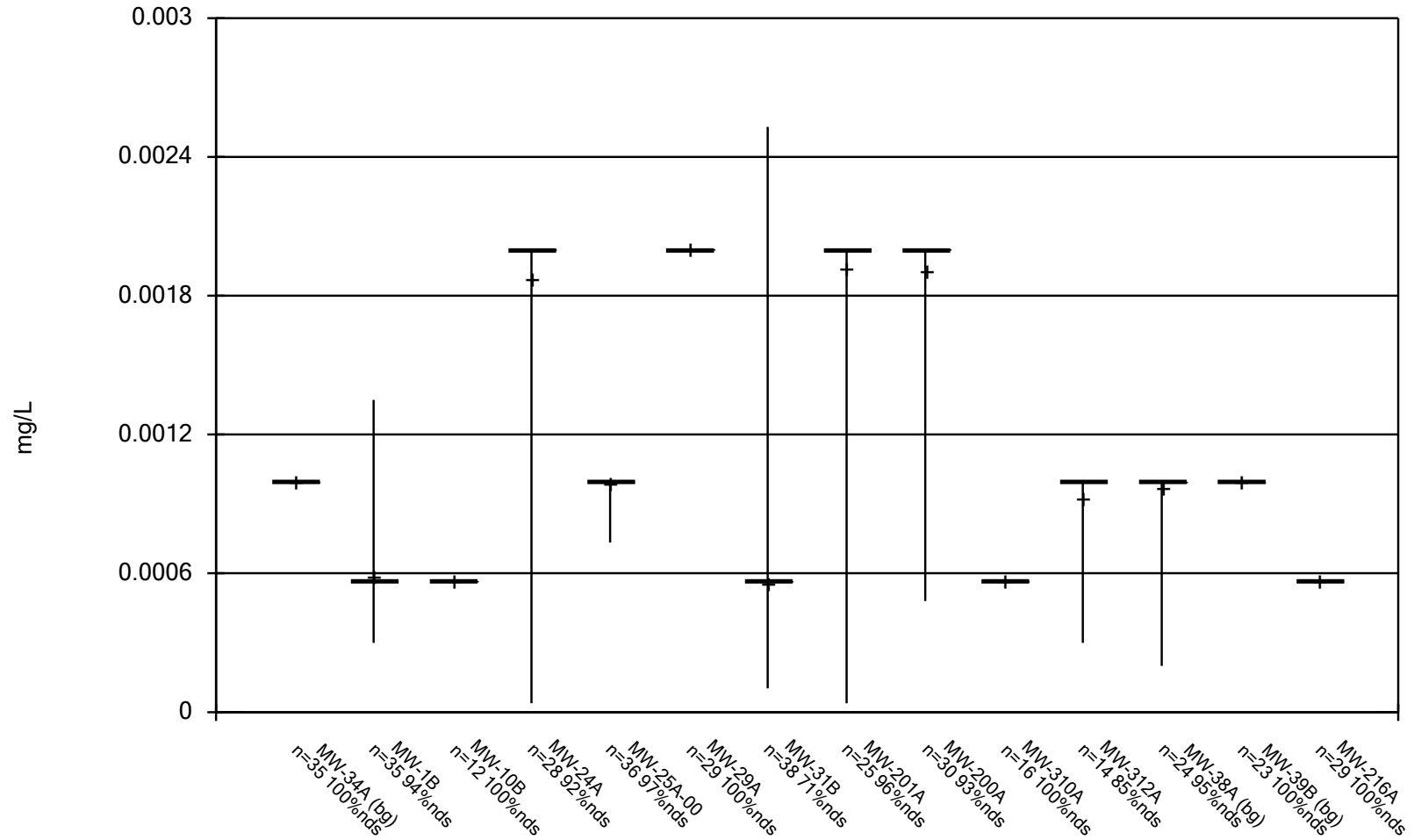
Constituent: Sulfide Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



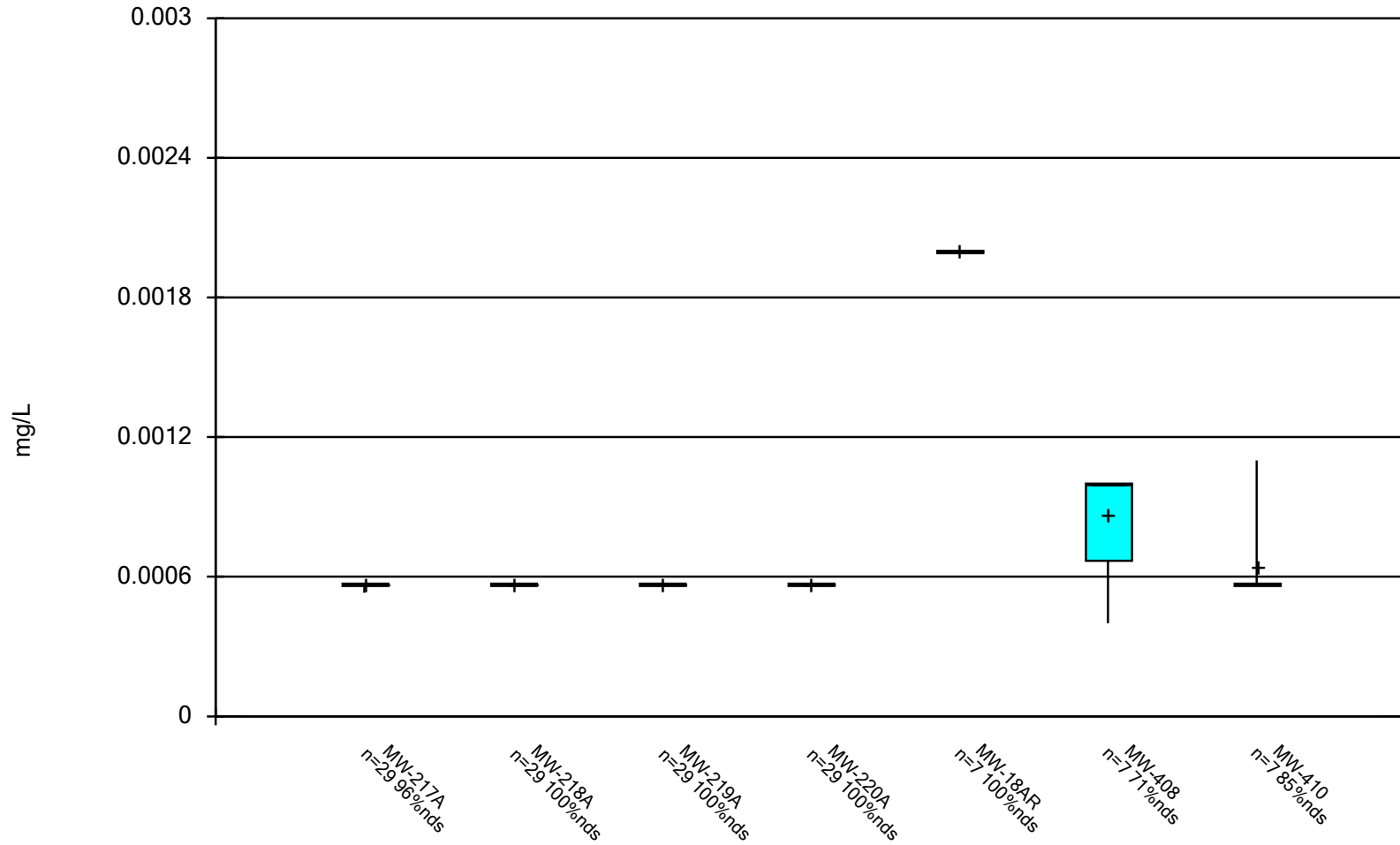
Constituent: Sulfide Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



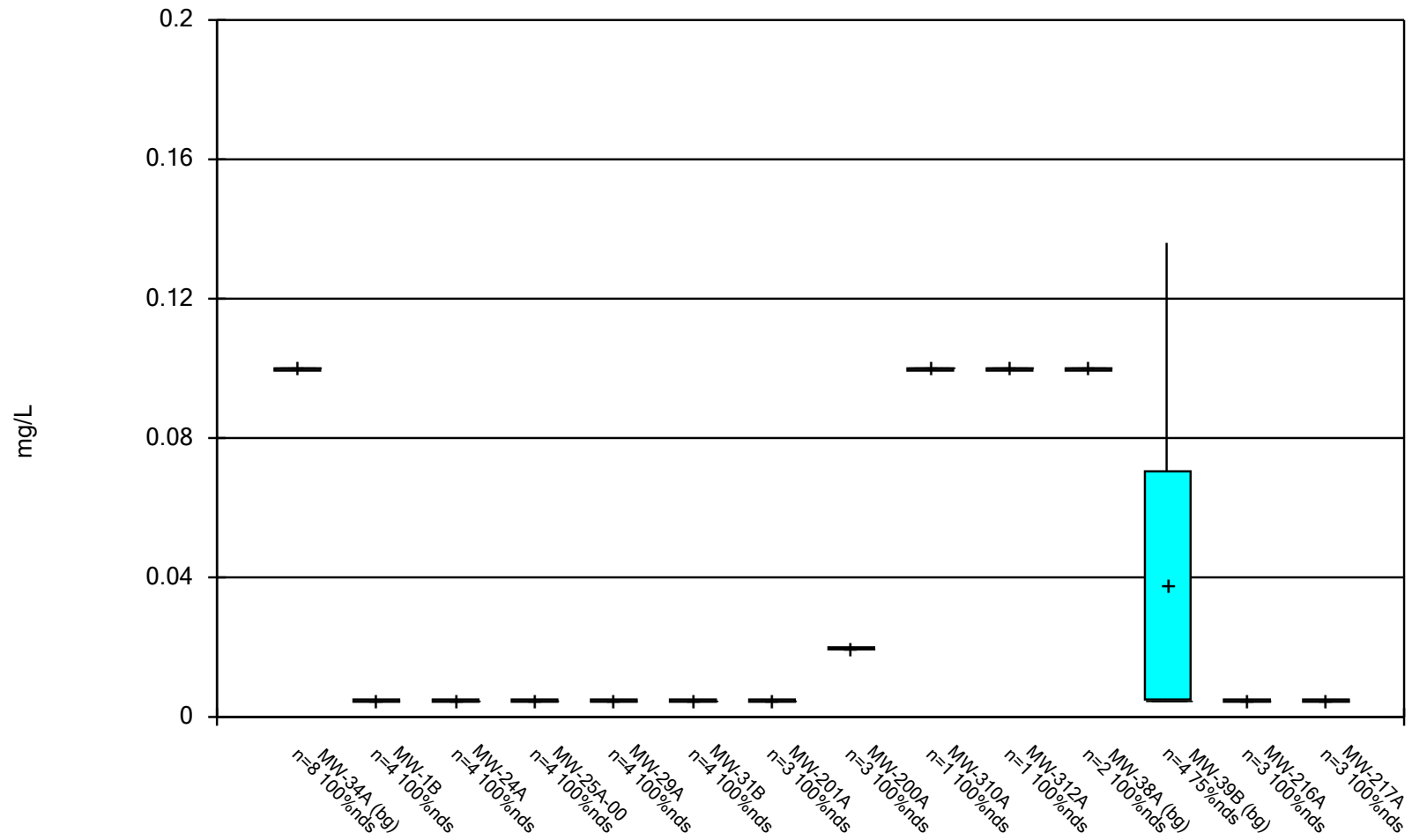
Constituent: Thallium Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



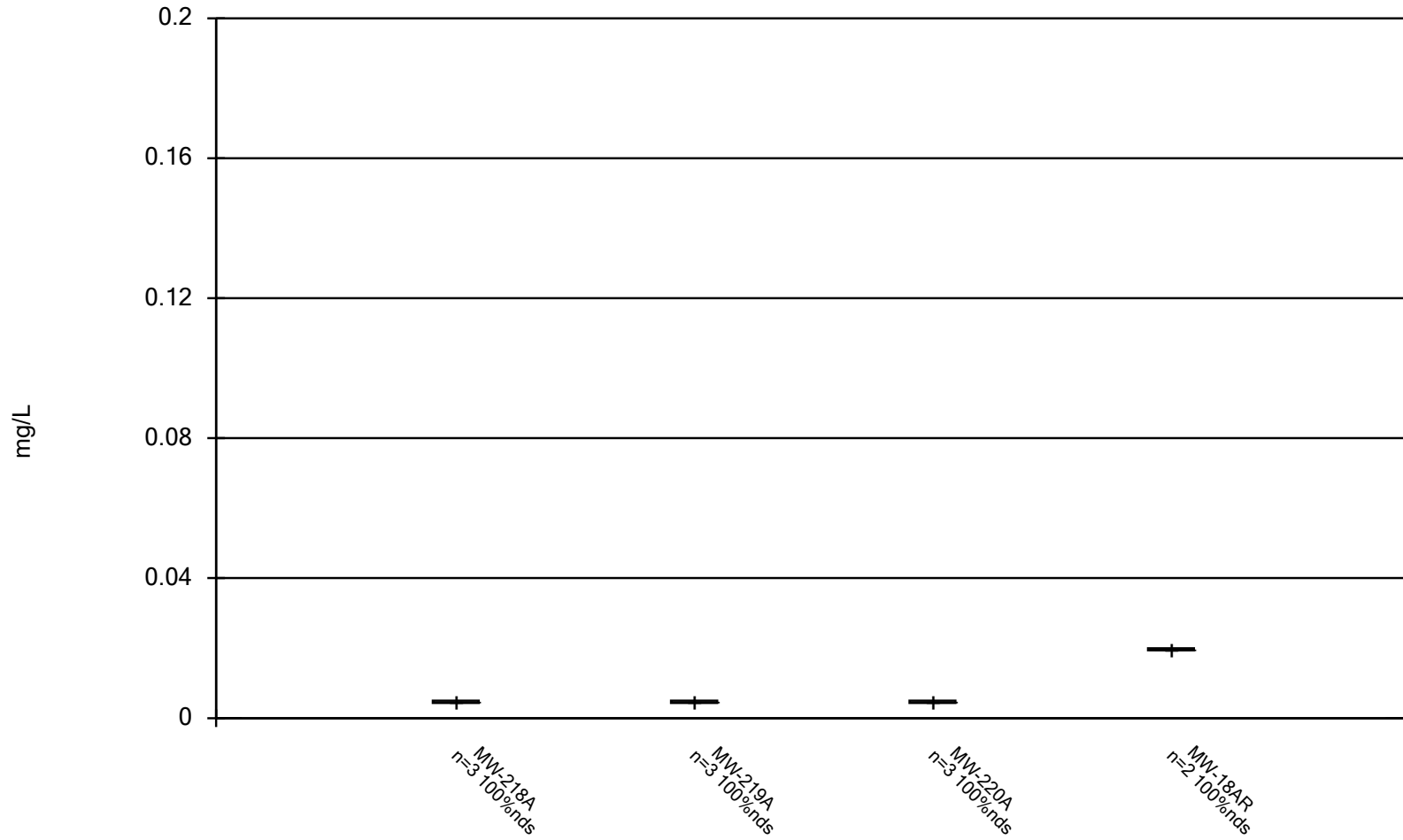
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Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



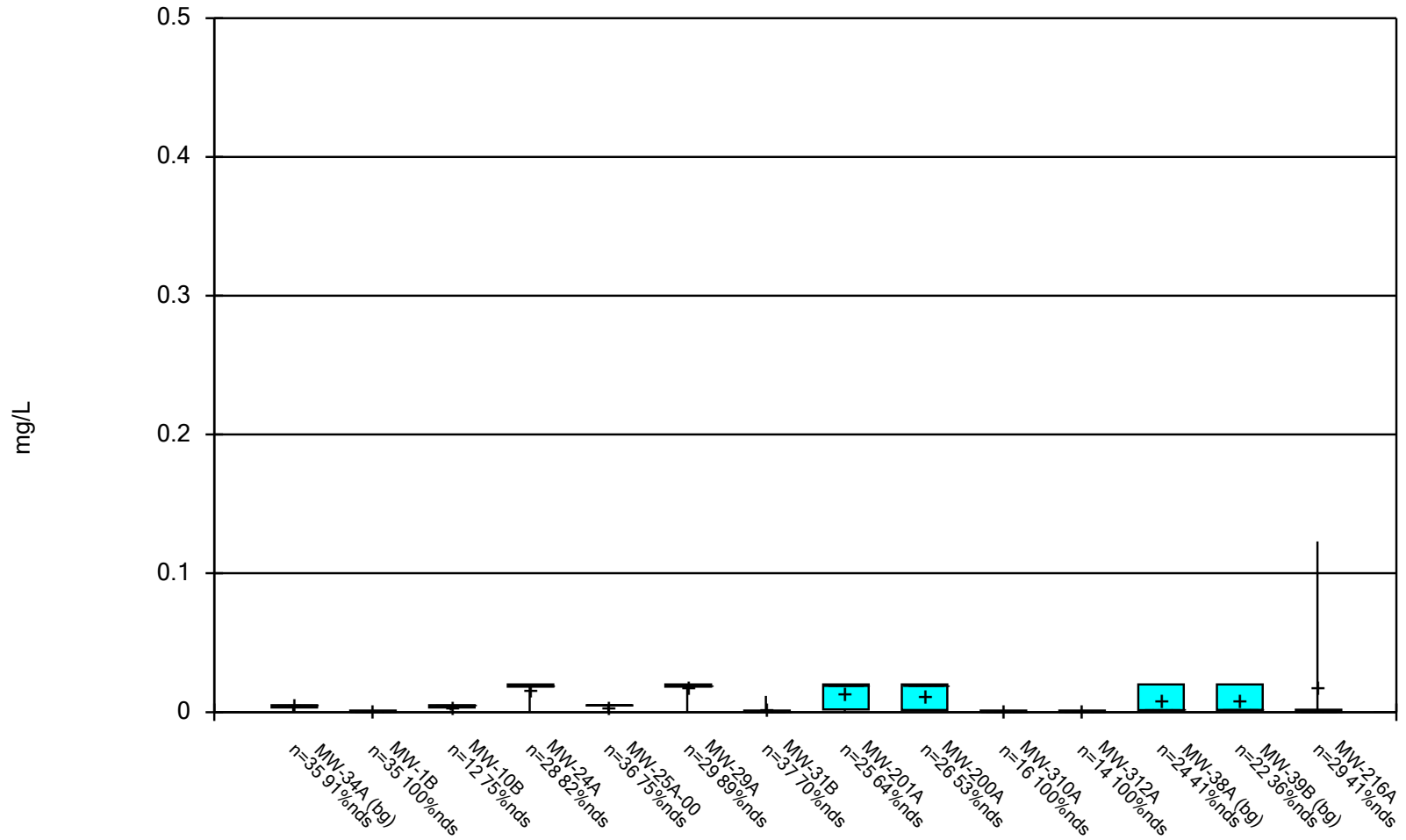
Constituent: Tin Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



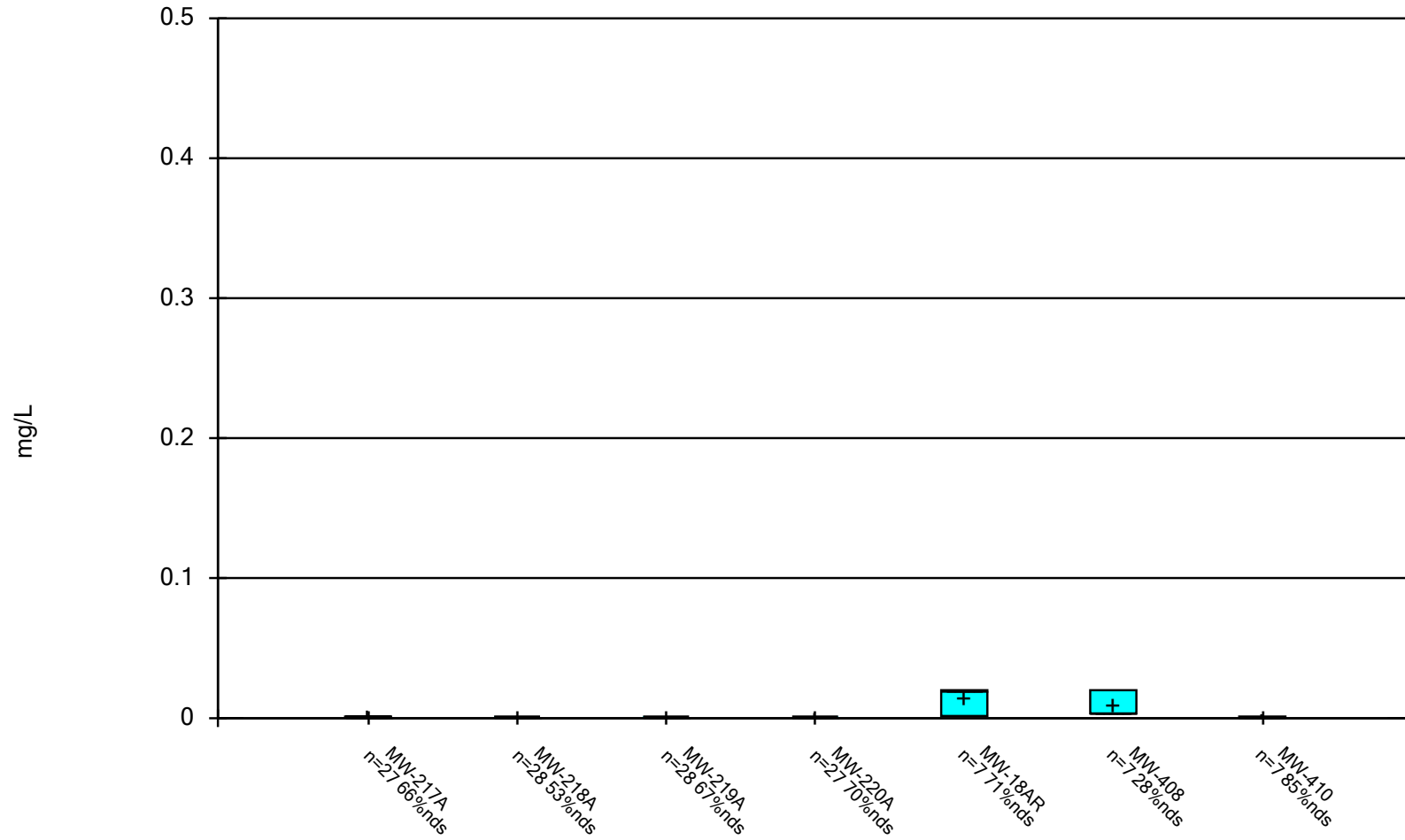
Constituent: Tin Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



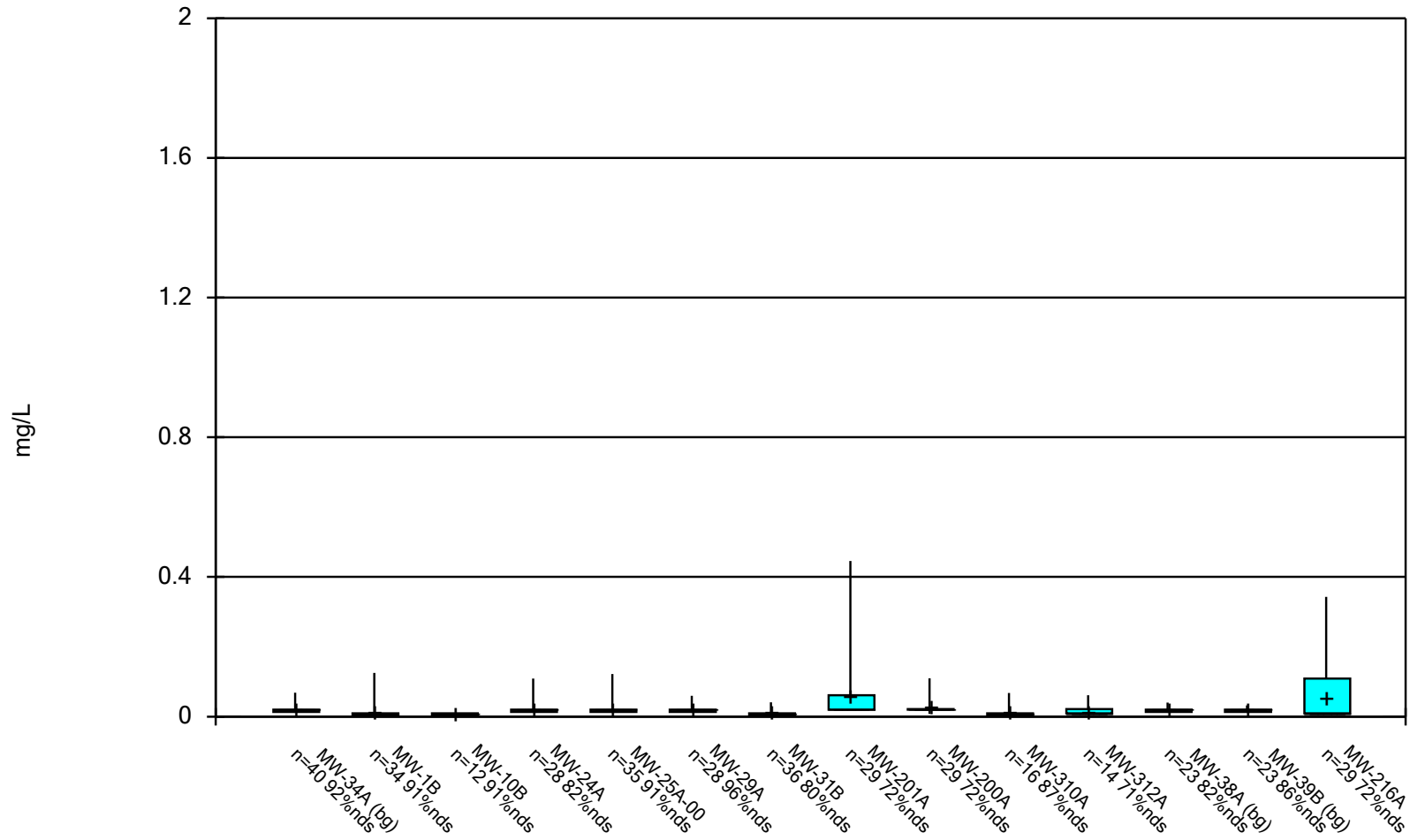
Constituent: Vanadium Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



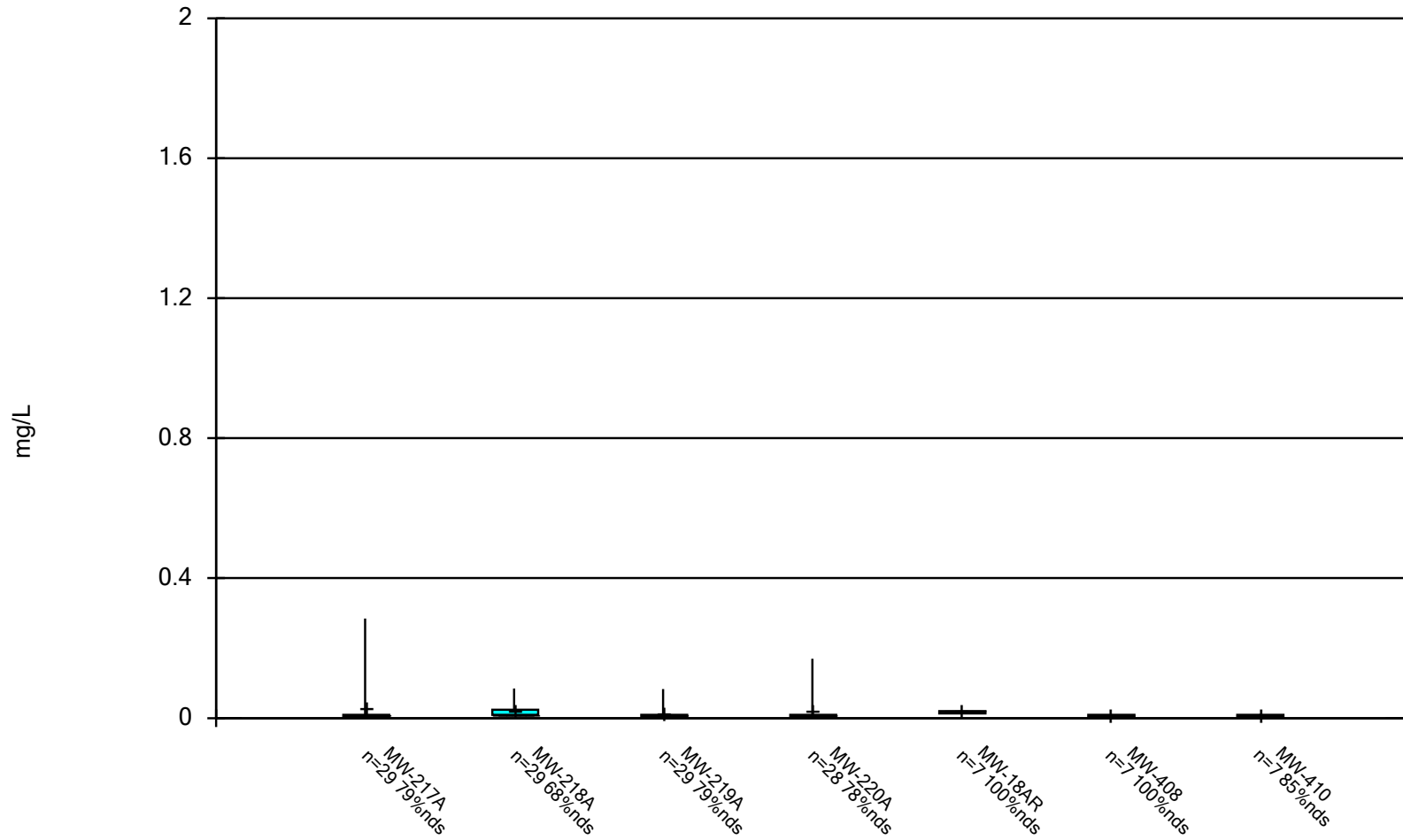
Constituent: Vanadium Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 1/23/2025 4:50 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Box & Whiskers Plot

Iowa City Landfill

Client: HDR

Data: Iowa City Sanitary Landfill

Printed 1/23/2025, 4:50 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Antimony (mg/L)	MW-34A (bg)	35	0.002	0	0	0.002	0.002	0.002	0.002	0.002	100
Antimony (mg/L)	MW-1B	35	0.0009882	0.00006998	0.00001183	0.001	0.001	0.001	0.000586	0.001	97.14
Antimony (mg/L)	MW-10B	12	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Antimony (mg/L)	MW-24A	28	0.001938	0.0003269	0.00006179	0.002	0.002	0.002	0.00027	0.002	96.43
Antimony (mg/L)	MW-25A-00	36	0.002	0	0	0.002	0.002	0.002	0.002	0.002	100
Antimony (mg/L)	MW-29A	29	0.002	0	0	0.002	0.002	0.002	0.002	0.002	100
Antimony (mg/L)	MW-31B	38	0.0009829	0.00008405	0.00001363	0.001	0.001	0.001	0.0005	0.001	92.11
Antimony (mg/L)	MW-201A	25	0.001927	0.0003674	0.00007348	0.002	0.002	0.002	0.000163	0.002	96
Antimony (mg/L)	MW-200A	27	0.002	0	0	0.002	0.002	0.002	0.002	0.002	100
Antimony (mg/L)	MW-310A	16	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Antimony (mg/L)	MW-312A	14	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Antimony (mg/L)	MW-38A (bg)	24	0.002	0	0	0.002	0.002	0.002	0.002	0.002	100
Antimony (mg/L)	MW-39B (bg)	23	0.001855	0.0004834	0.0001008	0.002	0.002	0.002	0.000163	0.002	91.3
Antimony (mg/L)	MW-216A	29	0.0009959	0.00002191	0.000004069	0.001	0.001	0.001	0.000882	0.001	96.55
Antimony (mg/L)	MW-217A	29	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Antimony (mg/L)	MW-218A	29	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Antimony (mg/L)	MW-219A	29	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Antimony (mg/L)	MW-220A	29	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Antimony (mg/L)	MW-18AR	7	0.001953	0.0001247	0.00004714	0.002	0.002	0.002	0.00167	0.002	85.71
Antimony (mg/L)	MW-408	7	0.0009286	0.000189	0.00007143	0.001	0.001	0.001	0.0005	0.001	85.71
Antimony (mg/L)	MW-410	7	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Arsenic (mg/L)	MW-34A (bg)	40	0.001919	0.0008691	0.0001374	0.002	0.00197	0.002	0.000485	0.00585	57.5
Arsenic (mg/L)	MW-1B	34	0.0007044	0.0005447	0.00009342	0.00053	0.00053	0.00053	0.00053	0.0029	85.29
Arsenic (mg/L)	MW-10B	27	0.0005593	0.0001551	0.00002984	0.00053	0.00053	0.00053	0.00028	0.0012	88.89
Arsenic (mg/L)	MW-24A	37	0.005076	0.005167	0.0008494	0.00339	0.00128	0.00678	0.0005	0.0217	8.108
Arsenic (mg/L)	MW-25A-00	35	0.002007	0.00111	0.0001877	0.002	0.002	0.002	0.000643	0.008	80
Arsenic (mg/L)	MW-29A	35	0.001733	0.0005507	0.00009309	0.002	0.0014	0.002	0.000378	0.003	68.57
Arsenic (mg/L)	MW-31B	38	0.001446	0.00219	0.0003553	0.00053	0.00053	0.00132	0.00053	0.012	60.53
Arsenic (mg/L)	MW-201A	36	0.005847	0.01061	0.001768	0.000551	0.00053	0.00591	0.000223	0.054	47.22
Arsenic (mg/L)	MW-200A	34	0.001078	0.001437	0.0002465	0.00053	0.00053	0.00053	0.00053	0.0057	79.41
Arsenic (mg/L)	MW-310A	29	0.00053	0	0	0.00053	0.00053	0.00053	0.00053	0.00053	100
Arsenic (mg/L)	MW-312A	16	0.0005594	0.0001175	0.00002937	0.00053	0.00053	0.00053	0.00053	0.001	93.75
Arsenic (mg/L)	MW-38A (bg)	24	0.002664	0.004185	0.0008542	0.002	0.002	0.002	0.000261	0.0222	79.17
Arsenic (mg/L)	MW-39B (bg)	23	0.002039	0.0006671	0.0001391	0.002	0.002	0.002	0.000446	0.00466	82.61
Arsenic (mg/L)	MW-216A	29	0.002765	0.004222	0.0007839	0.00053	0.00053	0.003125	0.00053	0.0162	55.17
Arsenic (mg/L)	MW-217A	29	0.001033	0.001693	0.0003144	0.00053	0.00053	0.00053	0.00053	0.00782	86.21
Arsenic (mg/L)	MW-218A	29	0.000611	0.0002828	0.00005252	0.00053	0.00053	0.00053	0.000309	0.00172	86.21
Arsenic (mg/L)	MW-219A	29	0.0005993	0.0003132	0.00005816	0.00053	0.00053	0.00053	0.000441	0.00216	89.66
Arsenic (mg/L)	MW-220A	28	0.0007954	0.0005488	0.0001037	0.00053	0.00053	0.000715	0.00053	0.00222	75
Arsenic (mg/L)	MW-18AR	13	0.0009765	0.0005742	0.0001592	0.000564	0.00053	0.001455	0.00053	0.0023	46.15
Arsenic (mg/L)	MW-408	13	0.0006277	0.0003522	0.00009769	0.00053	0.00053	0.00053	0.00053	0.0018	92.31
Arsenic (mg/L)	MW-410	7	0.0006776	0.0003243	0.0001226	0.00053	0.00053	0.000693	0.00053	0.0014	71.43
Barium (mg/L)	MW-34A (bg)	42	0.2063	0.0563	0.008688	0.19	0.161	0.244	0.125	0.368	0
Barium (mg/L)	MW-1B	38	0.4633	0.1058	0.01716	0.4625	0.372	0.5535	0.159	0.644	0
Barium (mg/L)	MW-10B	12	0.131	0.01909	0.005511	0.1305	0.121	0.143	0.0972	0.164	0
Barium (mg/L)	MW-24A	37	0.3635	0.07996	0.01315	0.345	0.311	0.3985	0.263	0.605	0
Barium (mg/L)	MW-25A-00	39	0.1392	0.05426	0.008689	0.144	0.0919	0.188	0.005	0.237	2.564
Barium (mg/L)	MW-29A	39	0.138	0.04067	0.006513	0.125	0.115	0.148	0.0926	0.284	0
Barium (mg/L)	MW-31B	41	0.3534	0.1245	0.01944	0.355	0.254	0.44	0.169	0.6125	0
Barium (mg/L)	MW-201A	36	0.447	0.2488	0.04147	0.3545	0.2625	0.5805	0.154	1.15	0

Box & Whiskers Plot

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 4:50 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Barium (mg/L)	MW-200A	35	0.7226	0.1967	0.03324	0.735	0.524	0.881	0.41	1.08	0
Barium (mg/L)	MW-310A	17	0.09586	0.04176	0.01013	0.0875	0.0605	0.1215	0.0522	0.2	0
Barium (mg/L)	MW-312A	14	0.1869	0.03043	0.008132	0.176	0.164	0.1945	0.159	0.259	0
Barium (mg/L)	MW-38A (bg)	24	0.2955	0.1218	0.02486	0.2895	0.2265	0.315	0.183	0.806	0
Barium (mg/L)	MW-39B (bg)	23	0.1738	0.03865	0.008059	0.167	0.151	0.18	0.125	0.31	0
Barium (mg/L)	MW-216A	28	0.3386	0.2252	0.04256	0.2825	0.2545	0.3175	0.0508	0.906	0
Barium (mg/L)	MW-217A	27	0.102	0.05072	0.009761	0.0885	0.0777	0.103	0.0614	0.274	0
Barium (mg/L)	MW-218A	29	0.2405	0.02954	0.005485	0.228	0.22	0.264	0.193	0.302	0
Barium (mg/L)	MW-219A	29	0.5079	0.1292	0.02399	0.54	0.4335	0.5935	0.199	0.708	0
Barium (mg/L)	MW-220A	27	0.308	0.06741	0.01297	0.293	0.277	0.316	0.238	0.559	0
Barium (mg/L)	MW-18AR	13	0.6938	0.1513	0.04196	0.72	0.583	0.782	0.416	0.941	0
Barium (mg/L)	MW-408	7	0.1754	0.01234	0.004664	0.177	0.167	0.183	0.157	0.194	0
Barium (mg/L)	MW-410	7	0.1003	0.007634	0.002885	0.099	0.0925	0.106	0.0923	0.114	0
Beryllium (mg/L)	MW-34A (bg)	42	0.001002	0.0000108	0.000001667	0.001	0.001	0.001	0.001	0.00107	97.62
Beryllium (mg/L)	MW-1B	35	0.0003234	0.00003888	0.000006571	0.00033	0.00033	0.00033	0.0001	0.00033	97.14
Beryllium (mg/L)	MW-10B	12	0.00033	0	0	0.00033	0.00033	0.00033	0.00033	0.00033	100
Beryllium (mg/L)	MW-24A	28	0.003723	0.001018	0.0001924	0.004	0.004	0.004	0.000097	0.004	92.86
Beryllium (mg/L)	MW-25A-00	36	0.0009761	0.0001435	0.00002392	0.001	0.001	0.001	0.000139	0.001	97.22
Beryllium (mg/L)	MW-29A	29	0.004	0	0	0.004	0.004	0.004	0.004	0.004	100
Beryllium (mg/L)	MW-31B	38	0.0004191	0.0003186	0.00005169	0.00033	0.00033	0.00033	0.00033	0.00205	84.21
Beryllium (mg/L)	MW-201A	29	0.003304	0.001175	0.0002182	0.004	0.002645	0.004	0.0004	0.004	68.97
Beryllium (mg/L)	MW-200A	29	0.003792	0.0008151	0.0001514	0.004	0.004	0.004	0.00007	0.004	93.1
Beryllium (mg/L)	MW-310A	16	0.00033	0	0	0.00033	0.00033	0.00033	0.00033	0.00033	100
Beryllium (mg/L)	MW-312A	14	0.0003207	0.00003474	0.000009286	0.00033	0.00033	0.00033	0.0002	0.00033	92.86
Beryllium (mg/L)	MW-38A (bg)	23	0.0009593	0.0001952	0.0000407	0.001	0.001	0.001	0.000064	0.001	95.65
Beryllium (mg/L)	MW-39B (bg)	23	0.0009843	0.00007527	0.0000157	0.001	0.001	0.001	0.000639	0.001	95.65
Beryllium (mg/L)	MW-216A	27	0.0007956	0.001168	0.0002248	0.00033	0.00033	0.00033	0.000041	0.0048	77.78
Beryllium (mg/L)	MW-217A	29	0.0005177	0.0008655	0.0001607	0.00033	0.00033	0.00033	0.000...	0.00487	89.66
Beryllium (mg/L)	MW-218A	29	0.00033	0	0	0.00033	0.00033	0.00033	0.00033	0.00033	100
Beryllium (mg/L)	MW-219A	29	0.0003231	0.00003695	0.000006862	0.00033	0.00033	0.00033	0.000131	0.00033	96.55
Beryllium (mg/L)	MW-220A	29	0.0007148	0.001112	0.0002065	0.00033	0.00033	0.00033	0.00033	0.00565	82.76
Beryllium (mg/L)	MW-18AR	7	0.004	0	0	0.004	0.004	0.004	0.004	0.004	100
Beryllium (mg/L)	MW-408	7	0.0002971	0.00008693	0.00003286	0.00033	0.00033	0.00033	0.0001	0.00033	85.71
Beryllium (mg/L)	MW-410	7	0.00033	0	0	0.00033	0.00033	0.00033	0.00033	0.00033	100
Cadmium (mg/L)	MW-34A (bg)	36	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Cadmium (mg/L)	MW-1B	34	0.00009988	6.9e-7	1.2e-7	0.0001	0.0001	0.0001	0.000096	0.0001	94.12
Cadmium (mg/L)	MW-10B	12	0.0002	0.00005144	0.00001485	0.0002	0.0002	0.0002	0.0001	0.000334	75
Cadmium (mg/L)	MW-24A	28	0.0007543	0.0001449	0.00002738	0.0008	0.0008	0.0008	0.000181	0.0008	89.29
Cadmium (mg/L)	MW-25A-00	35	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Cadmium (mg/L)	MW-29A	28	0.0007205	0.0002338	0.00004418	0.0008	0.0008	0.0008	0.000036	0.0008	89.29
Cadmium (mg/L)	MW-31B	38	0.0001366	0.00009394	0.00001524	0.0001	0.0001	0.0001	0.0001	0.00045	84.21
Cadmium (mg/L)	MW-201A	26	0.0008	0	0	0.0008	0.0008	0.0008	0.0008	0.0008	100
Cadmium (mg/L)	MW-200A	29	0.0008	0	0	0.0008	0.0008	0.0008	0.0008	0.0008	100
Cadmium (mg/L)	MW-310A	16	0.0001	0	0	0.0001	0.0001	0.0001	0.0001	0.0001	100
Cadmium (mg/L)	MW-312A	14	0.0001071	0.00002673	0.000007143	0.0001	0.0001	0.0001	0.0001	0.0002	92.86
Cadmium (mg/L)	MW-38A (bg)	24	0.0002637	0.0003123	0.00006375	0.0002	0.0002	0.0002	0.0002	0.00173	95.83
Cadmium (mg/L)	MW-39B (bg)	23	0.0002012	0.0001156	0.0000241	0.0002	0.0001	0.0002	0.000054	0.000521	47.83
Cadmium (mg/L)	MW-216A	29	0.000251	0.0003903	0.00007247	0.0001	0.0001	0.0001	0.000036	0.00157	68.97
Cadmium (mg/L)	MW-217A	28	0.0001	0	0	0.0001	0.0001	0.0001	0.0001	0.0001	100
Cadmium (mg/L)	MW-218A	29	0.0001001	3.7e-7	6.9e-8	0.0001	0.0001	0.0001	0.0001	0.000102	96.55

Box & Whiskers Plot

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 4:50 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Cadmium (mg/L)	MW-219A	28	0.0001	0	0	0.0001	0.0001	0.0001	0.0001	0.0001	100
Cadmium (mg/L)	MW-220A	29	0.0003165	0.0006128	0.0001138	0.0001	0.0001	0.0001	0.000038	0.00251	79.31
Cadmium (mg/L)	MW-18AR	7	0.000692	0.0002857	0.000108	0.0008	0.0008	0.0008	0.000044	0.0008	85.71
Cadmium (mg/L)	MW-408	6	0.0001988	0.00009352	0.00003818	0.000175	0.000119	0.0003025	0.0001	0.000359	0
Cadmium (mg/L)	MW-410	7	0.0001	0	0	0.0001	0.0001	0.0001	0.0001	0.0001	100
Chromium (mg/L)	MW-34A (bg)	32	0.004857	0.0007444	0.0001316	0.005	0.005	0.005	0.000794	0.005	93.75
Chromium (mg/L)	MW-1B	34	0.001188	0.0000686	0.00001176	0.0012	0.0012	0.0012	0.0008	0.0012	97.06
Chromium (mg/L)	MW-10B	12	0.0012	0	0	0.0012	0.0012	0.0012	0.0012	0.0012	100
Chromium (mg/L)	MW-24A	28	0.008	0	0	0.008	0.008	0.008	0.008	0.008	100
Chromium (mg/L)	MW-25A-00	35	0.003579	0.001888	0.0003192	0.005	0.00128	0.005	0.000839	0.005	62.86
Chromium (mg/L)	MW-29A	28	0.008	0	0	0.008	0.008	0.008	0.008	0.008	100
Chromium (mg/L)	MW-31B	38	0.001622	0.001539	0.0002496	0.0012	0.0012	0.0012	0.000597	0.00988	73.68
Chromium (mg/L)	MW-201A	26	0.03058	0.0853	0.01673	0.005	0.005	0.005	0.0008	0.405	80.77
Chromium (mg/L)	MW-200A	28	0.007094	0.002359	0.0004457	0.008	0.008	0.008	0.000459	0.008	85.71
Chromium (mg/L)	MW-310A	16	0.0012	0	0	0.0012	0.0012	0.0012	0.0012	0.0012	100
Chromium (mg/L)	MW-312A	14	0.004762	0.001231	0.0003291	0.005	0.005	0.005	0.0006	0.00607	85.71
Chromium (mg/L)	MW-38A (bg)	24	0.01058	0.01288	0.00263	0.00291	0.00253	0.02	0.00182	0.0477	25
Chromium (mg/L)	MW-39B (bg)	23	0.00547	0.002622	0.0005467	0.005	0.005	0.005	0.0034	0.0174	91.3
Chromium (mg/L)	MW-216A	28	0.001168	0.00009833	0.00001858	0.0012	0.0012	0.0012	0.0008	0.0012	89.29
Chromium (mg/L)	MW-217A	27	0.001347	0.0003564	0.0000686	0.00127	0.0012	0.00144	0.000744	0.0028	33.33
Chromium (mg/L)	MW-218A	29	0.001173	0.0001255	0.00002331	0.0012	0.0012	0.0012	0.000528	0.0012	93.1
Chromium (mg/L)	MW-219A	29	0.0012	0	0	0.0012	0.0012	0.0012	0.0012	0.0012	100
Chromium (mg/L)	MW-220A	28	0.001204	0.0000189	0.000003571	0.0012	0.0012	0.0012	0.0012	0.0013	96.43
Chromium (mg/L)	MW-18AR	7	0.008	0	0	0.008	0.008	0.008	0.008	0.008	100
Chromium (mg/L)	MW-408	7	0.001286	0.0002268	0.00008571	0.0012	0.0012	0.0012	0.0012	0.0018	85.71
Chromium (mg/L)	MW-410	7	0.0012	0	0	0.0012	0.0012	0.0012	0.0012	0.0012	100
Cobalt (mg/L)	MW-34A (bg)	42	0.0008384	0.001264	0.000195	0.0005	0.0005	0.0005	0.000049	0.0074	66.67
Cobalt (mg/L)	MW-1B	35	0.0003452	0.0007538	0.0001274	0.00017	0.00017	0.00017	0.00006	0.00417	60
Cobalt (mg/L)	MW-10B	12	0.0002999	0.0004111	0.0001187	0.00017	0.00017	0.00017	0.00017	0.0016	83.33
Cobalt (mg/L)	MW-24A	34	0.01139	0.004937	0.0008467	0.01005	0.007985	0.01305	0.00455	0.02	20.59
Cobalt (mg/L)	MW-25A-00	36	0.0006963	0.000762	0.000127	0.0005	0.0005	0.0005	0.000058	0.00331	72.22
Cobalt (mg/L)	MW-29A	36	0.001203	0.001599	0.0002665	0.0005	0.0005	0.00131	0.000061	0.00701	44.44
Cobalt (mg/L)	MW-31B	38	0.003979	0.003315	0.0005377	0.00341	0.000409	0.007	0.000195	0.0107	36.84
Cobalt (mg/L)	MW-201A	36	0.001072	0.001811	0.0003019	0.00017	0.00017	0.00112	0.000092	0.0089	50
Cobalt (mg/L)	MW-200A	35	0.001275	0.002354	0.0003979	0.0005	0.0005	0.0005	0.000051	0.0106	62.86
Cobalt (mg/L)	MW-310A	27	0.0001558	0.00004599	0.000008851	0.00017	0.000136	0.00017	0.000053	0.0003	59.26
Cobalt (mg/L)	MW-312A	14	0.0008249	0.0007358	0.0001967	0.0005	0.0005	0.00105	0.000318	0.0029	71.43
Cobalt (mg/L)	MW-38A (bg)	24	0.000954	0.001886	0.0003851	0.0005	0.0005	0.0005	0.000074	0.00939	79.17
Cobalt (mg/L)	MW-39B (bg)	23	0.002029	0.002313	0.0004824	0.00095	0.000614	0.00241	0.000204	0.009	17.39
Cobalt (mg/L)	MW-216A	29	0.006839	0.01352	0.002511	0.000175	0.00017	0.005635	0.000054	0.0437	24.14
Cobalt (mg/L)	MW-217A	27	0.001042	0.003002	0.0005778	0.00017	0.00017	0.00017	0.000041	0.015	70.37
Cobalt (mg/L)	MW-218A	29	0.0006411	0.001356	0.0002518	0.00017	0.00017	0.00017	0.000048	0.00594	75.86
Cobalt (mg/L)	MW-219A	29	0.0007554	0.001535	0.0002851	0.00017	0.00017	0.00017	0.00009	0.00508	79.31
Cobalt (mg/L)	MW-220A	29	0.005504	0.01839	0.003415	0.00017	0.00017	0.00017	0.000107	0.0941	75.86
Cobalt (mg/L)	MW-18AR	13	0.001201	0.0007947	0.0002204	0.0012	0.00017	0.0019	0.00017	0.00219	30.77
Cobalt (mg/L)	MW-408	6	0.0004932	0.0003165	0.0001292	0.000445	0.0002395	0.000795	0.000179	0.00109	16.67
Cobalt (mg/L)	MW-410	11	0.0009134	0.000746	0.0002249	0.000622	0.0003	0.00121	0.000273	0.00255	0
Copper (mg/L)	MW-34A (bg)	35	0.004914	0.0004151	0.00007017	0.005	0.005	0.005	0.00287	0.00534	91.43
Copper (mg/L)	MW-1B	34	0.00254	0.004502	0.0007721	0.0018	0.0018	0.0018	0.000772	0.028	94.12
Copper (mg/L)	MW-10B	10	0.001921	0.0006227	0.0001969	0.0018	0.0018	0.0018	0.0012	0.00361	80

Box & Whiskers Plot

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 4:50 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Copper (mg/L)	MW-24A	34	0.004217	0.007854	0.001347	0.0018	0.0018	0.0018	0.000601	0.031	76.47
Copper (mg/L)	MW-25A-00	35	0.004919	0.00048	0.00008114	0.005	0.005	0.005	0.00216	0.005	97.14
Copper (mg/L)	MW-29A	35	0.002785	0.005458	0.0009226	0.0018	0.0018	0.0018	0.000857	0.034	80
Copper (mg/L)	MW-31B	38	0.01334	0.02805	0.004551	0.0018	0.0018	0.0096	0.000937	0.128	50
Copper (mg/L)	MW-201A	32	0.009143	0.01782	0.003151	0.0018	0.0018	0.002475	0.000737	0.07	62.5
Copper (mg/L)	MW-200A	35	0.002891	0.006635	0.001121	0.0018	0.0018	0.0018	0.001	0.041	85.71
Copper (mg/L)	MW-310A	16	0.001737	0.0002029	0.00005072	0.0018	0.0018	0.0018	0.001	0.0018	87.5
Copper (mg/L)	MW-312A	14	0.001793	0.0004531	0.0001211	0.0018	0.0018	0.0018	0.0011	0.0031	78.57
Copper (mg/L)	MW-38A (bg)	24	0.004129	0.001564	0.0003192	0.005	0.003815	0.005	0.000972	0.005	75
Copper (mg/L)	MW-39B (bg)	22	0.004396	0.00125	0.0002665	0.005	0.00438	0.005	0.0011	0.005	77.27
Copper (mg/L)	MW-216A	26	0.001797	0.0003377	0.00006623	0.0018	0.0017	0.0018	0.00102	0.0026	61.54
Copper (mg/L)	MW-217A	29	0.007954	0.02449	0.004548	0.0018	0.0018	0.0018	0.000...	0.121	86.21
Copper (mg/L)	MW-218A	29	0.001763	0.0004069	0.00007555	0.0018	0.0018	0.0018	0.000698	0.00342	82.76
Copper (mg/L)	MW-219A	29	0.002519	0.003624	0.000673	0.0018	0.0018	0.0018	0.000607	0.0209	82.76
Copper (mg/L)	MW-220A	27	0.00865	0.01785	0.003435	0.0018	0.0018	0.0027	0.000635	0.0709	59.26
Copper (mg/L)	MW-18AR	11	0.001782	0.00009816	0.0000296	0.0018	0.0018	0.0018	0.0015	0.0019	81.82
Copper (mg/L)	MW-408	7	0.002356	0.0009496	0.0003589	0.0018	0.0018	0.00369	0.0018	0.0038	71.43
Copper (mg/L)	MW-410	7	0.001823	0.0002714	0.0001026	0.0018	0.0018	0.00196	0.0013	0.0022	42.86
Cyanide (mg/L)	MW-34A (bg)	7	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-1B	4	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-24A	4	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-25A-00	4	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-29A	13	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-31B	4	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-201A	3	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-200A	3	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Cyanide (mg/L)	MW-310A	1	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-312A	1	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-216A	3	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-217A	3	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-218A	3	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-219A	3	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-220A	3	0.01	0	0	0.01	0.01	0.01	0.01	0.01	100
Cyanide (mg/L)	MW-18AR	2	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Lead (mg/L)	MW-34A (bg)	40	0.0006497	0.0007705	0.0001218	0.0005	0.0005	0.0005	0.000198	0.00509	92.5
Lead (mg/L)	MW-1B	34	0.0004405	0.000772	0.0001324	0.00026	0.00026	0.00026	0.000167	0.0042	91.18
Lead (mg/L)	MW-10B	12	0.00026	0	0	0.00026	0.00026	0.00026	0.00026	0.00026	100
Lead (mg/L)	MW-24A	34	0.0006918	0.001567	0.0002687	0.00026	0.00026	0.00026	0.00026	0.008	82.35
Lead (mg/L)	MW-25A-00	35	0.0006571	0.0009297	0.0001571	0.0005	0.0005	0.0005	0.0005	0.006	97.14
Lead (mg/L)	MW-29A	35	0.0003954	0.0008012	0.0001354	0.00026	0.00026	0.00026	0.00026	0.005	97.14
Lead (mg/L)	MW-31B	38	0.003463	0.003345	0.0005426	0.004	0.0006878	0.004	0.000388	0.018	39.47
Lead (mg/L)	MW-201A	36	0.0131	0.03223	0.005371	0.000447	0.00026	0.0103	0.00026	0.18	47.22
Lead (mg/L)	MW-200A	35	0.001569	0.004845	0.000819	0.00026	0.00026	0.00026	0.00026	0.023	85.71
Lead (mg/L)	MW-310A	16	0.00026	0	0	0.00026	0.00026	0.00026	0.00026	0.00026	100
Lead (mg/L)	MW-312A	14	0.00026	0	0	0.00026	0.00026	0.00026	0.00026	0.00026	100
Lead (mg/L)	MW-38A (bg)	24	0.0009174	0.001397	0.0002852	0.0005	0.0005	0.0005	0.000229	0.00626	79.17
Lead (mg/L)	MW-39B (bg)	23	0.001438	0.002968	0.0006189	0.0005	0.0005	0.0005	0.000334	0.0128	73.91
Lead (mg/L)	MW-216A	29	0.003276	0.005844	0.001085	0.00026	0.00026	0.003553	0.00015	0.02	55.17
Lead (mg/L)	MW-217A	29	0.002325	0.008235	0.001529	0.00026	0.00026	0.00026	0.000...	0.0432	82.76
Lead (mg/L)	MW-218A	29	0.0004885	0.001266	0.0002351	0.00026	0.00026	0.00026	0.000104	0.00707	86.21

Box & Whiskers Plot

Iowa City Landfill

Client: HDR

Data: Iowa City Sanitary Landfill

Printed 1/23/2025, 4:50 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Lead (mg/L)	MW-219A	29	0.0009721	0.002321	0.0004309	0.00026	0.00026	0.00026	0.00026	0.0115	86.21
Lead (mg/L)	MW-220A	29	0.002368	0.00478	0.0008876	0.00026	0.00026	0.000508	0.00026	0.0197	75.86
Lead (mg/L)	MW-18AR	13	0.0002577	0.00003516	0.00000975	0.00026	0.00026	0.00026	0.00016	0.00033	84.62
Lead (mg/L)	MW-408	7	0.0003371	0.0002041	0.00007714	0.00026	0.00026	0.00026	0.00026	0.0008	85.71
Lead (mg/L)	MW-410	7	0.00026	0	0	0.00026	0.00026	0.00026	0.00026	0.00026	100
Mercury (mg/L)	MW-34A (bg)	2	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-1B	4	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-24A	4	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-25A-00	4	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-29A	4	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-31B	4	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-201A	3	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-200A	3	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Mercury (mg/L)	MW-310A	1	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-312A	1	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-216A	3	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-217A	3	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-218A	3	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-219A	3	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-220A	3	0.0002	0	0	0.0002	0.0002	0.0002	0.0002	0.0002	100
Mercury (mg/L)	MW-18AR	2	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Nickel (mg/L)	MW-34A (bg)	39	0.00461	0.001682	0.0002694	0.005	0.005	0.005	0.00074	0.011	82.05
Nickel (mg/L)	MW-1B	34	0.002309	0.001425	0.0002443	0.0021	0.0021	0.0021	0.000999	0.0103	94.12
Nickel (mg/L)	MW-10B	12	0.006467	0.01528	0.004412	0.0021	0.0021	0.0021	0.0016	0.055	83.33
Nickel (mg/L)	MW-24A	37	0.01037	0.008121	0.001335	0.00619	0.005	0.016	0.0034	0.035	24.32
Nickel (mg/L)	MW-25A-00	35	0.004486	0.002539	0.0004292	0.005	0.005	0.005	0.000872	0.016	74.29
Nickel (mg/L)	MW-29A	35	0.007406	0.006374	0.001077	0.005	0.005	0.00773	0.00093	0.0292	45.71
Nickel (mg/L)	MW-31B	37	0.004554	0.005868	0.0009647	0.0021	0.0021	0.003345	0.00108	0.023	59.46
Nickel (mg/L)	MW-201A	33	0.01499	0.03664	0.006379	0.00231	0.0021	0.00775	0.00114	0.2	36.36
Nickel (mg/L)	MW-200A	35	0.004388	0.007052	0.001192	0.0021	0.0021	0.0021	0.000761	0.038	71.43
Nickel (mg/L)	MW-310A	16	0.002087	0.00015	0.0000375	0.0021	0.0021	0.0021	0.0016	0.0024	87.5
Nickel (mg/L)	MW-312A	14	0.004798	0.001301	0.0003478	0.005	0.005	0.005	0.0022	0.0077	78.57
Nickel (mg/L)	MW-38A (bg)	24	0.01184	0.0253	0.005164	0.005	0.005	0.005	0.000588	0.105	79.17
Nickel (mg/L)	MW-39B (bg)	23	0.0171	0.02037	0.004247	0.00493	0.00301	0.05	0.00195	0.05	26.09
Nickel (mg/L)	MW-216A	29	0.01823	0.02108	0.003915	0.0062	0.005345	0.05	0.00236	0.0594	20.69
Nickel (mg/L)	MW-217A	29	0.006726	0.01829	0.003397	0.0021	0.0021	0.0021	0.0009	0.0888	82.76
Nickel (mg/L)	MW-218A	29	0.002049	0.0002733	0.00005076	0.0021	0.0021	0.0021	0.000628	0.0021	96.55
Nickel (mg/L)	MW-219A	29	0.002028	0.0002843	0.0000528	0.0021	0.0021	0.0021	0.000713	0.0021	93.1
Nickel (mg/L)	MW-220A	28	0.002083	0.0001581	0.00002988	0.0021	0.0021	0.0021	0.00133	0.0024	92.86
Nickel (mg/L)	MW-18AR	13	0.004192	0.001621	0.0004497	0.0048	0.00222	0.00535	0.0021	0.00661	23.08
Nickel (mg/L)	MW-408	6	0.003443	0.00107	0.0004368	0.00316	0.002475	0.004695	0.00205	0.005	16.67
Nickel (mg/L)	MW-410	7	0.00384	0.0009385	0.0003547	0.0042	0.00282	0.0048	0.0025	0.0049	14.29
Selenium (mg/L)	MW-34A (bg)	36	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Selenium (mg/L)	MW-1B	34	0.001521	0.0007031	0.0001206	0.0014	0.0014	0.0014	0.0014	0.0055	97.06
Selenium (mg/L)	MW-10B	12	0.004123	0.001004	0.0002899	0.004445	0.003	0.005	0.0028	0.00519	41.67
Selenium (mg/L)	MW-24A	28	0.003863	0.0005444	0.0001029	0.004	0.004	0.004	0.00132	0.004	92.86
Selenium (mg/L)	MW-25A-00	35	0.004929	0.0004192	0.00007086	0.005	0.005	0.005	0.00252	0.005	97.14
Selenium (mg/L)	MW-29A	28	0.003914	0.0004573	0.00008643	0.004	0.004	0.004	0.00158	0.004	96.43
Selenium (mg/L)	MW-31B	38	0.001474	0.0004542	0.00007368	0.0014	0.0014	0.0014	0.0014	0.0042	97.37
Selenium (mg/L)	MW-201A	26	0.003813	0.0006617	0.0001298	0.004	0.004	0.004	0.00154	0.004	92.31

Box & Whiskers Plot

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 4:50 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Selenium (mg/L)	MW-200A	29	0.004	0	0	0.004	0.004	0.004	0.004	0.004	100
Selenium (mg/L)	MW-310A	16	0.001625	0.000755	0.0001887	0.0014	0.0014	0.0014	0.0014	0.0044	87.5
Selenium (mg/L)	MW-312A	14	0.001801	0.001502	0.0004014	0.0014	0.0014	0.0014	0.0014	0.00702	92.86
Selenium (mg/L)	MW-38A (bg)	24	0.004698	0.001028	0.0002099	0.005	0.005	0.005	0.001	0.005	91.67
Selenium (mg/L)	MW-39B (bg)	23	0.004395	0.001173	0.0002446	0.005	0.00409	0.005	0.00122	0.005	73.91
Selenium (mg/L)	MW-216A	29	0.004199	0.0016	0.000297	0.005	0.005	0.005	0.00067	0.005	79.31
Selenium (mg/L)	MW-217A	29	0.0014	0	0	0.0014	0.0014	0.0014	0.0014	0.0014	100
Selenium (mg/L)	MW-218A	29	0.001388	0.00006685	0.00001241	0.0014	0.0014	0.0014	0.00104	0.0014	96.55
Selenium (mg/L)	MW-219A	29	0.001374	0.0001413	0.00002624	0.0014	0.0014	0.0014	0.000639	0.0014	96.55
Selenium (mg/L)	MW-220A	29	0.001383	0.00009248	0.00001717	0.0014	0.0014	0.0014	0.000902	0.0014	96.55
Selenium (mg/L)	MW-18AR	7	0.004	0	0	0.004	0.004	0.004	0.004	0.004	100
Selenium (mg/L)	MW-408	6	0.0014	0	0	0.0014	0.0014	0.0014	0.0014	0.0014	100
Selenium (mg/L)	MW-410	7	0.0014	0	0	0.0014	0.0014	0.0014	0.0014	0.0014	100
Silver (mg/L)	MW-34A (bg)	35	0.0009752	0.0001467	0.0000248	0.001	0.001	0.001	0.000132	0.001	97.14
Silver (mg/L)	MW-1B	34	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Silver (mg/L)	MW-10B	12	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Silver (mg/L)	MW-24A	28	0.003859	0.000747	0.0001412	0.004	0.004	0.004	0.000047	0.004	96.43
Silver (mg/L)	MW-25A-00	35	0.0009753	0.0001464	0.00002474	0.001	0.001	0.001	0.000134	0.001	97.14
Silver (mg/L)	MW-29A	28	0.003861	0.0007331	0.0001385	0.004	0.004	0.004	0.000121	0.004	96.43
Silver (mg/L)	MW-31B	38	0.0004888	0.00006894	0.00001118	0.0005	0.0005	0.0005	0.000075	0.0005	97.37
Silver (mg/L)	MW-201A	26	0.003699	0.001062	0.0002082	0.004	0.004	0.004	0.000062	0.004	92.31
Silver (mg/L)	MW-200A	29	0.004	0	0	0.004	0.004	0.004	0.004	0.004	100
Silver (mg/L)	MW-310A	16	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Silver (mg/L)	MW-312A	14	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Silver (mg/L)	MW-38A (bg)	24	0.0009642	0.0001753	0.00003579	0.001	0.001	0.001	0.000141	0.001	95.83
Silver (mg/L)	MW-39B (bg)	23	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Silver (mg/L)	MW-216A	29	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Silver (mg/L)	MW-217A	29	0.0004872	0.00008074	0.00001499	0.0005	0.0005	0.0005	0.000071	0.000557	93.1
Silver (mg/L)	MW-218A	29	0.0004873	0.00006852	0.00001272	0.0005	0.0005	0.0005	0.000131	0.0005	96.55
Silver (mg/L)	MW-219A	29	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Silver (mg/L)	MW-220A	29	0.0004869	0.00007038	0.00001307	0.0005	0.0005	0.0005	0.000121	0.0005	96.55
Silver (mg/L)	MW-18AR	7	0.004	0	0	0.004	0.004	0.004	0.004	0.004	100
Silver (mg/L)	MW-408	7	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Silver (mg/L)	MW-410	7	0.0005	0	0	0.0005	0.0005	0.0005	0.0005	0.0005	100
Sulfide (mg/L)	MW-34A (bg)	12	1	0	0	1	1	1	1	1	100
Sulfide (mg/L)	MW-1B	4	1	0	0	1	1	1	1	1	100
Sulfide (mg/L)	MW-24A	3	1	0	0	1	1	1	1	1	100
Sulfide (mg/L)	MW-25A-00	3	1	0	0	1	1	1	1	1	100
Sulfide (mg/L)	MW-29A	3	1	0	0	1	1	1	1	1	100
Sulfide (mg/L)	MW-31B	4	1	0	0	1	1	1	1	1	100
Sulfide (mg/L)	MW-201A	3	1	0	0	1	1	1	1	1	100
Sulfide (mg/L)	MW-200A	3	0.1	0	0	0.1	0.1	0.1	0.1	0.1	100
Sulfide (mg/L)	MW-310A	1	1	0	0	1	1	1	1	1	100
Sulfide (mg/L)	MW-312A	1	1	0	0	1	1	1	1	1	100
Sulfide (mg/L)	MW-38A (bg)	8	0.1	0	0	0.1	0.1	0.1	0.1	0.1	100
Sulfide (mg/L)	MW-39B (bg)	4	1	0	0	1	1	1	1	1	100
Sulfide (mg/L)	MW-216A	22	1.066	0.3003	0.06402	1	1	1	1	2.41	90.91
Sulfide (mg/L)	MW-217A	3	1	0	0	1	1	1	1	1	100
Sulfide (mg/L)	MW-218A	14	0.9522	0.1906	0.05094	1	1	1	0.291	1.04	85.71
Sulfide (mg/L)	MW-219A	13	1	0	0	1	1	1	1	1	100

Box & Whiskers Plot

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 4:50 PM

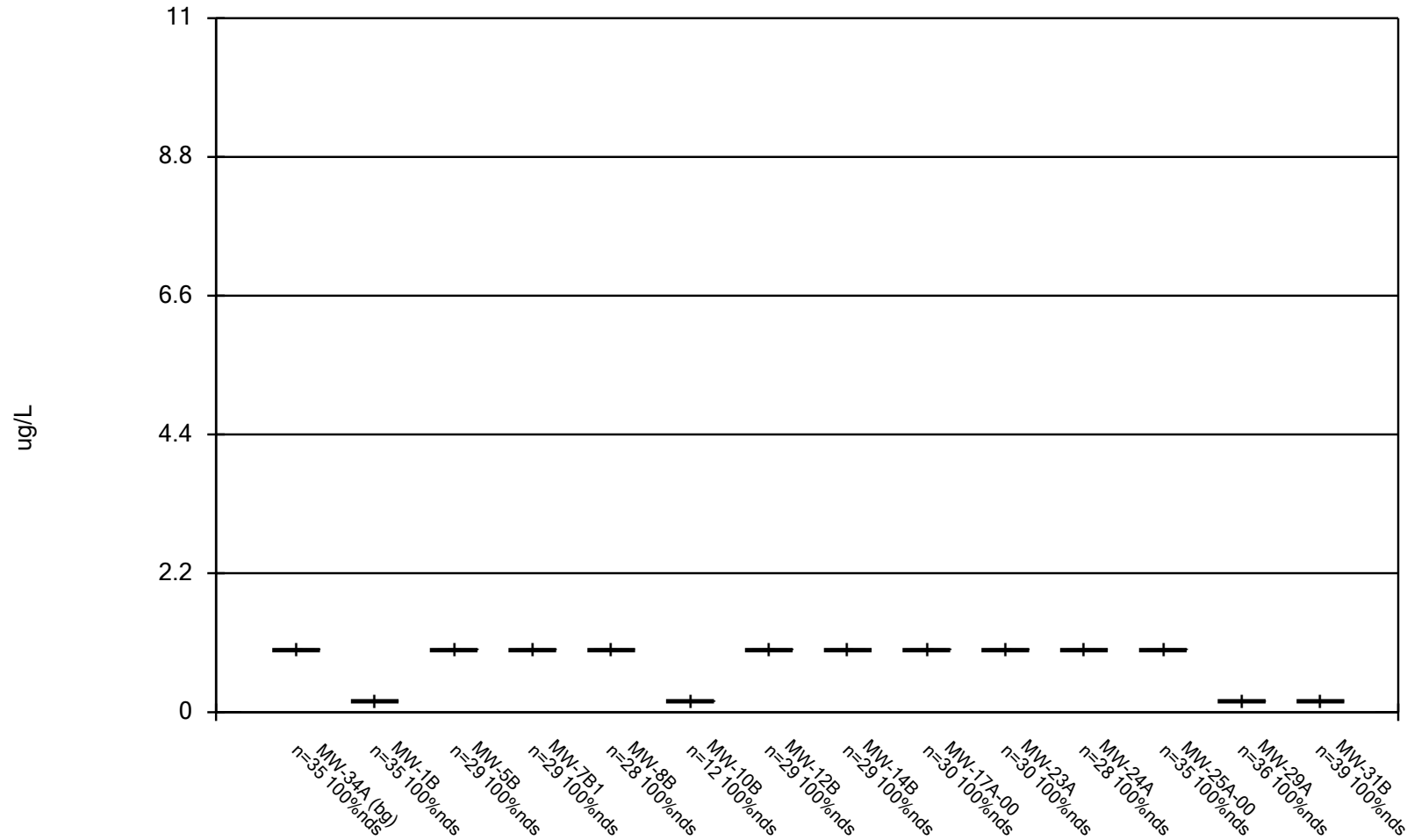
Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Sulfide (mg/L)	MW-220A	3	0.773	0.3932	0.227	1	0.319	1	0.319	1	66.67
Sulfide (mg/L)	MW-18AR	11	0.5285	0.9626	0.2902	0.231	0.231	0.231	0.231	3.43	81.82
Thallium (mg/L)	MW-34A (bg)	35	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Thallium (mg/L)	MW-1B	35	0.0005846	0.0001408	0.0000238	0.00057	0.00057	0.00057	0.0003	0.00135	94.29
Thallium (mg/L)	MW-10B	12	0.00057	0	0	0.00057	0.00057	0.00057	0.00057	0.00057	100
Thallium (mg/L)	MW-24A	28	0.001868	0.0004848	0.00009162	0.002	0.002	0.002	0.000038	0.002	92.86
Thallium (mg/L)	MW-25A-00	36	0.0009926	0.0000445	0.000007417	0.001	0.001	0.001	0.000733	0.001	97.22
Thallium (mg/L)	MW-29A	29	0.002	0	0	0.002	0.002	0.002	0.002	0.002	100
Thallium (mg/L)	MW-31B	38	0.0005617	0.0003828	0.00006209	0.00057	0.00057	0.00057	0.000103	0.00253	71.05
Thallium (mg/L)	MW-201A	25	0.001922	0.0003924	0.00007848	0.002	0.002	0.002	0.000038	0.002	96
Thallium (mg/L)	MW-200A	30	0.001906	0.0003582	0.0000654	0.002	0.002	0.002	0.00048	0.002	93.33
Thallium (mg/L)	MW-310A	16	0.00057	0	0	0.00057	0.00057	0.00057	0.00057	0.00057	100
Thallium (mg/L)	MW-312A	14	0.0009234	0.000205	0.00005479	0.001	0.001	0.001	0.0003	0.001	85.71
Thallium (mg/L)	MW-38A (bg)	24	0.0009667	0.0001633	0.00003333	0.001	0.001	0.001	0.0002	0.001	95.83
Thallium (mg/L)	MW-39B (bg)	23	0.001	0	0	0.001	0.001	0.001	0.001	0.001	100
Thallium (mg/L)	MW-216A	29	0.00057	0	0	0.00057	0.00057	0.00057	0.00057	0.00057	100
Thallium (mg/L)	MW-217A	29	0.0005687	0.000007149	0.000001328	0.00057	0.00057	0.00057	0.000...	0.00057	96.55
Thallium (mg/L)	MW-218A	29	0.00057	0	0	0.00057	0.00057	0.00057	0.00057	0.00057	100
Thallium (mg/L)	MW-219A	29	0.00057	0	0	0.00057	0.00057	0.00057	0.00057	0.00057	100
Thallium (mg/L)	MW-220A	29	0.00057	0	0	0.00057	0.00057	0.00057	0.00057	0.00057	100
Thallium (mg/L)	MW-18AR	7	0.002	0	0	0.002	0.002	0.002	0.002	0.002	100
Thallium (mg/L)	MW-408	7	0.0008669	0.0002402	0.00009078	0.001	0.000668	0.001	0.0004	0.001	71.43
Thallium (mg/L)	MW-410	7	0.0006457	0.0002003	0.00007571	0.00057	0.00057	0.00057	0.00057	0.0011	85.71
Tin (mg/L)	MW-34A (bg)	8	0.1	0	0	0.1	0.1	0.1	0.1	0.1	100
Tin (mg/L)	MW-1B	4	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Tin (mg/L)	MW-24A	4	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Tin (mg/L)	MW-25A-00	4	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Tin (mg/L)	MW-29A	4	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Tin (mg/L)	MW-31B	4	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Tin (mg/L)	MW-201A	3	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Tin (mg/L)	MW-200A	3	0.02	0	0	0.02	0.02	0.02	0.02	0.02	100
Tin (mg/L)	MW-310A	1	0.1	0	0	0.1	0.1	0.1	0.1	0.1	100
Tin (mg/L)	MW-312A	1	0.1	0	0	0.1	0.1	0.1	0.1	0.1	100
Tin (mg/L)	MW-38A (bg)	2	0.1	0	0	0.1	0.1	0.1	0.1	0.1	100
Tin (mg/L)	MW-39B (bg)	4	0.03775	0.0655	0.03275	0.005	0.005	0.0705	0.005	0.136	75
Tin (mg/L)	MW-216A	3	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Tin (mg/L)	MW-217A	3	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Tin (mg/L)	MW-218A	3	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Tin (mg/L)	MW-219A	3	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Tin (mg/L)	MW-220A	3	0.005	0	0	0.005	0.005	0.005	0.005	0.005	100
Tin (mg/L)	MW-18AR	2	0.02	0	0	0.02	0.02	0.02	0.02	0.02	100
Vanadium (mg/L)	MW-34A (bg)	35	0.004826	0.0007966	0.0001347	0.005	0.005	0.005	0.000694	0.00523	91.43
Vanadium (mg/L)	MW-1B	35	0.0011	0	0	0.0011	0.0011	0.0011	0.0011	0.0011	100
Vanadium (mg/L)	MW-10B	12	0.004141	0.001559	0.00045	0.005	0.00338	0.005	0.00124	0.005	75
Vanadium (mg/L)	MW-24A	28	0.01667	0.00728	0.001376	0.02	0.02	0.02	0.000625	0.02	82.14
Vanadium (mg/L)	MW-25A-00	36	0.004099	0.001698	0.000283	0.005	0.00478	0.005	0.000587	0.005	75
Vanadium (mg/L)	MW-29A	29	0.01805	0.005845	0.001085	0.02	0.02	0.02	0.000368	0.02	89.66
Vanadium (mg/L)	MW-31B	37	0.001919	0.002323	0.0003819	0.0011	0.0011	0.0011	0.000663	0.0117	70.27
Vanadium (mg/L)	MW-201A	25	0.01335	0.009057	0.001811	0.02	0.00188	0.02	0.000276	0.02	64
Vanadium (mg/L)	MW-200A	26	0.01165	0.009231	0.00181	0.02	0.00153	0.02	0.00126	0.02	53.85

Box & Whiskers Plot

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 4:50 PM

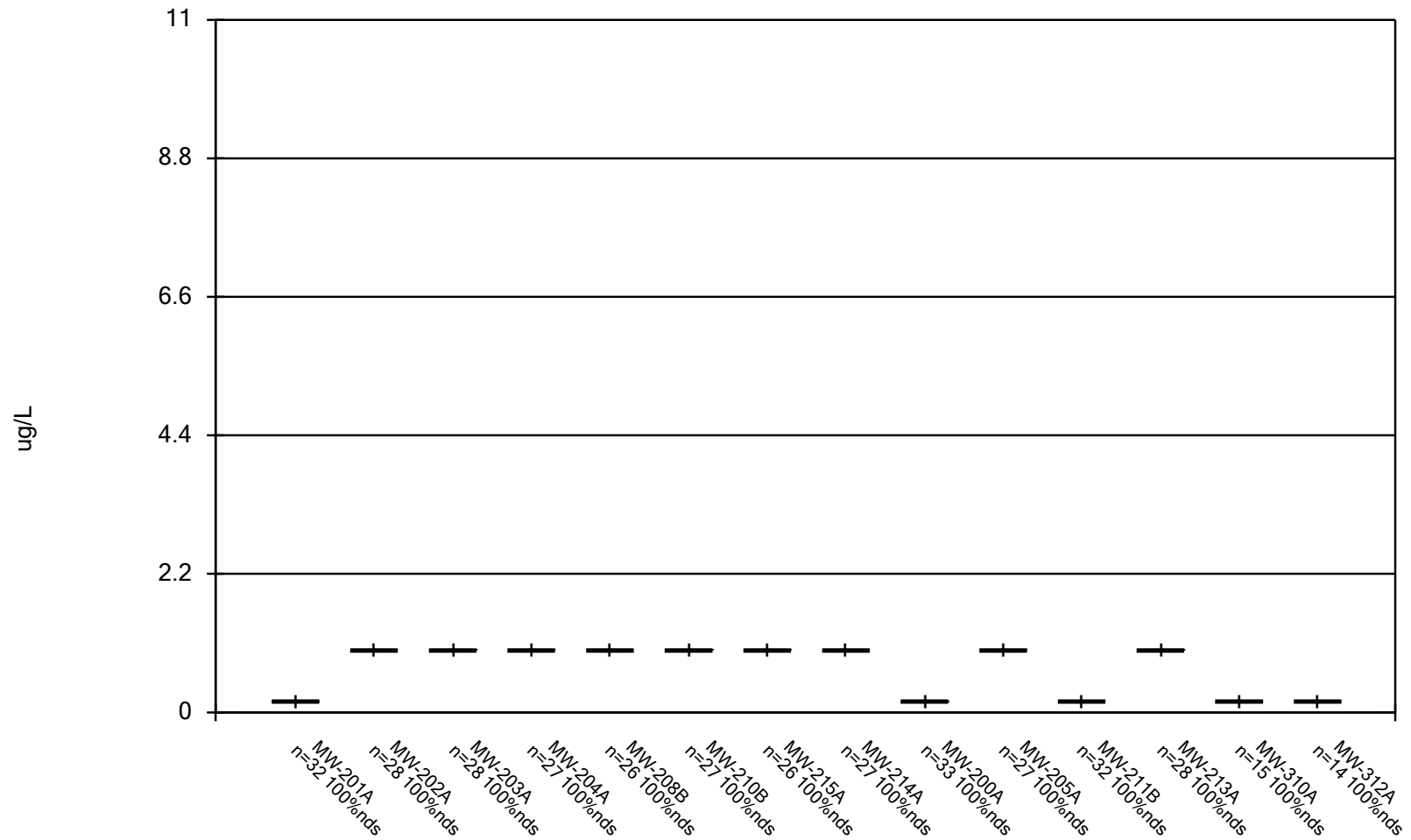
<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
Vanadium (mg/L)	MW-310A	16	0.0011	0	0	0.0011	0.0011	0.0011	0.0011	0.0011	100
Vanadium (mg/L)	MW-312A	14	0.0011	0	0	0.0011	0.0011	0.0011	0.0011	0.0011	100
Vanadium (mg/L)	MW-38A (bg)	24	0.009368	0.009229	0.001884	0.00271	0.00136	0.02	0.000281	0.02	41.67
Vanadium (mg/L)	MW-39B (bg)	22	0.008391	0.008996	0.001918	0.00227	0.00145	0.02	0.00109	0.02	36.36
Vanadium (mg/L)	MW-216A	29	0.0176	0.03776	0.007012	0.0011	0.001075	0.001695	0.000363	0.123	41.38
Vanadium (mg/L)	MW-217A	27	0.001187	0.000844	0.0001624	0.0011	0.00104	0.0011	0.000559	0.00535	66.67
Vanadium (mg/L)	MW-218A	28	0.001135	0.000169	0.00003194	0.0011	0.0011	0.001155	0.000504	0.0015	53.57
Vanadium (mg/L)	MW-219A	28	0.001031	0.0001526	0.00002884	0.0011	0.001045	0.0011	0.000437	0.00114	67.86
Vanadium (mg/L)	MW-220A	27	0.001109	0.0005239	0.0001008	0.0011	0.001065	0.0011	0.000274	0.00356	70.37
Vanadium (mg/L)	MW-18AR	7	0.01466	0.009126	0.003449	0.02	0.00159	0.02	0.00101	0.02	71.43
Vanadium (mg/L)	MW-408	7	0.01027	0.00827	0.003126	0.00449	0.00333	0.02	0.00279	0.02	28.57
Vanadium (mg/L)	MW-410	7	0.00135	0.0006614	0.00025	0.0011	0.0011	0.0011	0.0011	0.00285	85.71
Zinc (mg/L)	MW-34A (bg)	40	0.02238	0.009813	0.001552	0.02	0.02	0.02	0.02	0.0684	92.5
Zinc (mg/L)	MW-1B	34	0.01417	0.02054	0.003522	0.0097	0.0097	0.0097	0.0097	0.125	91.18
Zinc (mg/L)	MW-10B	12	0.009459	0.0008343	0.0002408	0.0097	0.0097	0.0097	0.00681	0.0097	91.67
Zinc (mg/L)	MW-24A	28	0.02436	0.01703	0.003219	0.02	0.02	0.02	0.02	0.109	82.14
Zinc (mg/L)	MW-25A-00	35	0.02313	0.01723	0.002912	0.02	0.02	0.02	0.02	0.122	91.43
Zinc (mg/L)	MW-29A	28	0.0214	0.007427	0.001404	0.02	0.02	0.02	0.02	0.0593	96.43
Zinc (mg/L)	MW-31B	36	0.01376	0.009115	0.001519	0.0097	0.0097	0.0097	0.0097	0.0407	80.56
Zinc (mg/L)	MW-201A	29	0.0586	0.0896	0.01664	0.02	0.02	0.06125	0.02	0.446	72.41
Zinc (mg/L)	MW-200A	29	0.02851	0.02143	0.003979	0.02	0.02	0.0214	0.00776	0.11	72.41
Zinc (mg/L)	MW-310A	16	0.01418	0.01462	0.003654	0.0097	0.0097	0.0097	0.0097	0.0674	87.5
Zinc (mg/L)	MW-312A	14	0.0162	0.01409	0.003765	0.0097	0.0097	0.02145	0.0097	0.061	71.43
Zinc (mg/L)	MW-38A (bg)	23	0.02189	0.004952	0.001032	0.02	0.02	0.02	0.02	0.0403	82.61
Zinc (mg/L)	MW-39B (bg)	23	0.02087	0.002895	0.0006038	0.02	0.02	0.02	0.02	0.0324	86.96
Zinc (mg/L)	MW-216A	29	0.05552	0.08482	0.01575	0.0097	0.0097	0.1087	0.0097	0.343	72.41
Zinc (mg/L)	MW-217A	29	0.02744	0.05794	0.01076	0.0097	0.0097	0.0097	0.00938	0.285	79.31
Zinc (mg/L)	MW-218A	29	0.01951	0.01876	0.003484	0.0097	0.0097	0.02435	0.0097	0.08485	68.97
Zinc (mg/L)	MW-219A	29	0.01864	0.01961	0.003642	0.0097	0.0097	0.0097	0.0097	0.0827	79.31
Zinc (mg/L)	MW-220A	28	0.0236	0.03503	0.00662	0.0097	0.0097	0.0097	0.0097	0.17	78.57
Zinc (mg/L)	MW-18AR	7	0.02	0	0	0.02	0.02	0.02	0.02	0.02	100
Zinc (mg/L)	MW-408	7	0.0097	0	0	0.0097	0.0097	0.0097	0.0097	0.0097	100
Zinc (mg/L)	MW-410	7	0.009634	0.0001739	0.00006571	0.0097	0.0097	0.0097	0.00924	0.0097	85.71

Box & Whiskers Plot



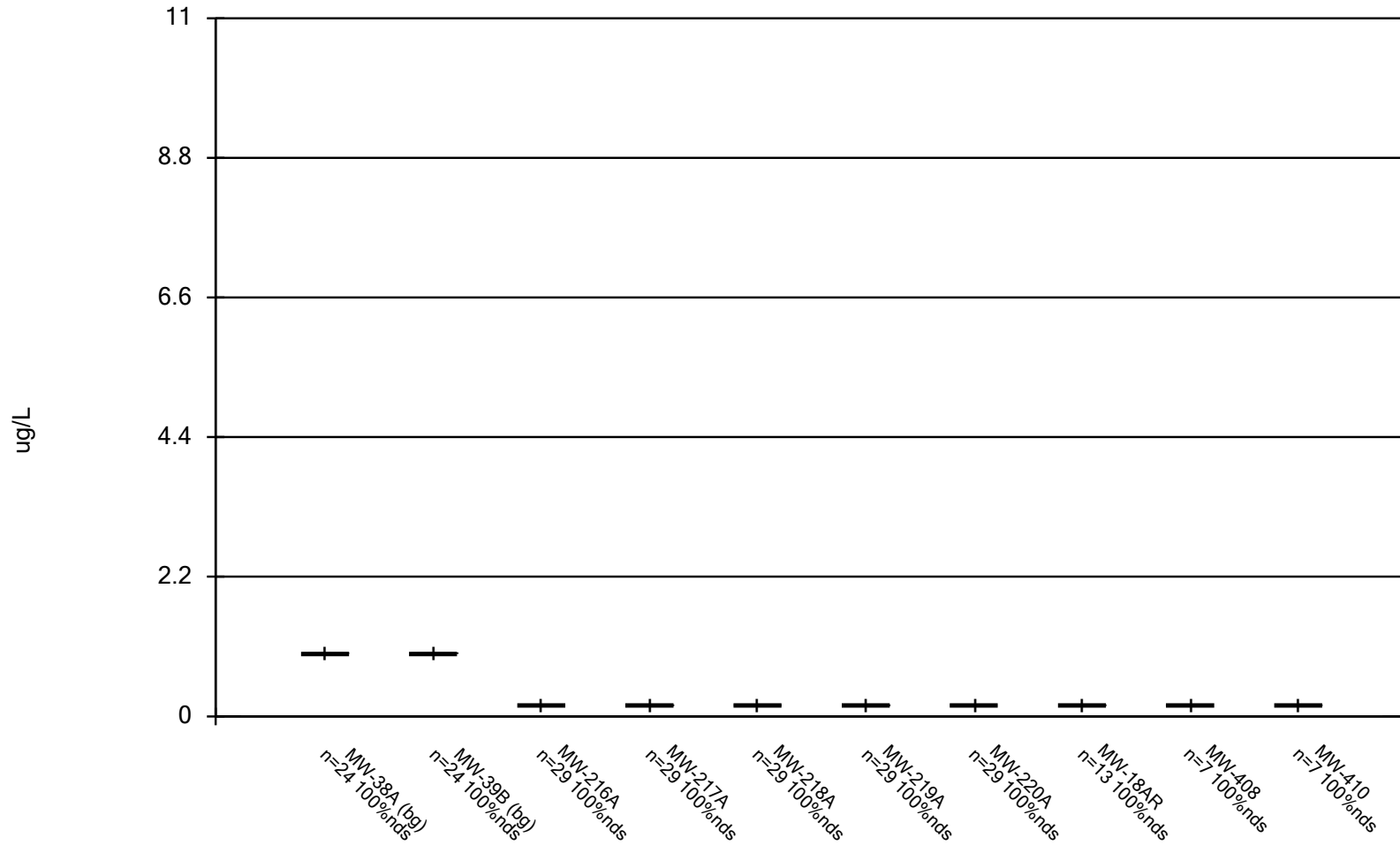
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



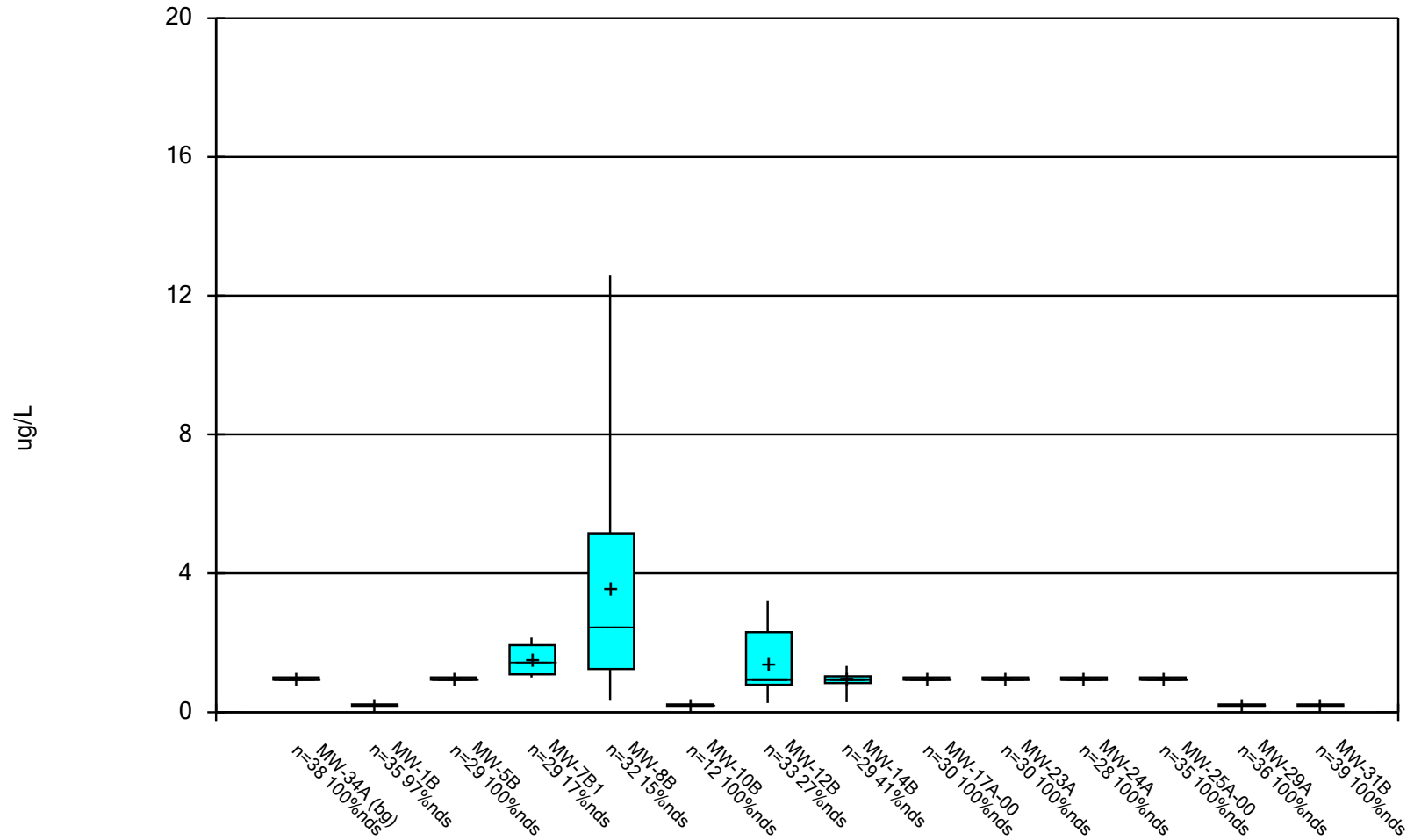
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: 1,1,1-Trichloroethane Analysis Run 1/21/2025 9:19 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

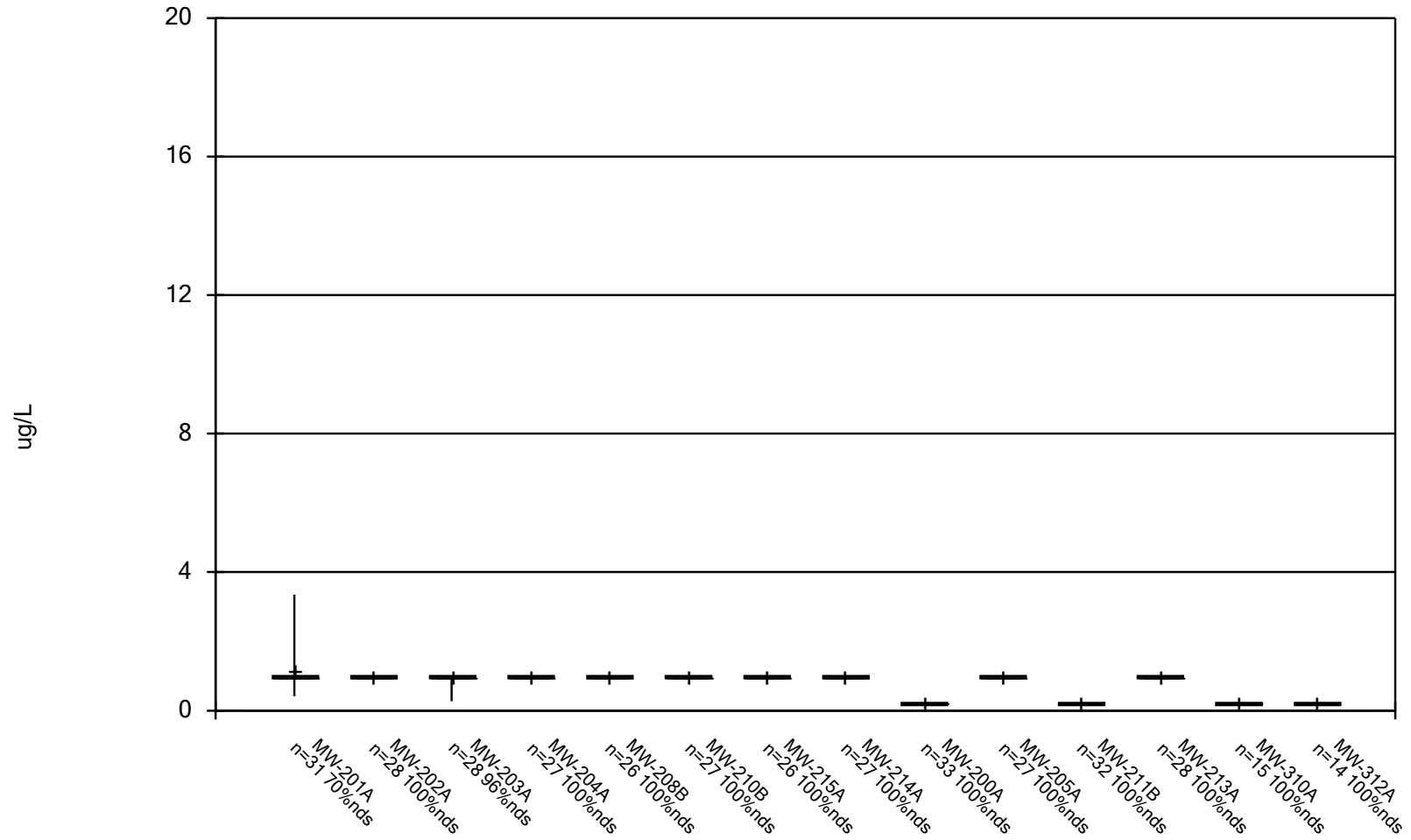
Box & Whiskers Plot



Constituent: 1,1-Dichloroethane Analysis Run 1/21/2025 9:19 PM View: 06A_MW_Organics_PL

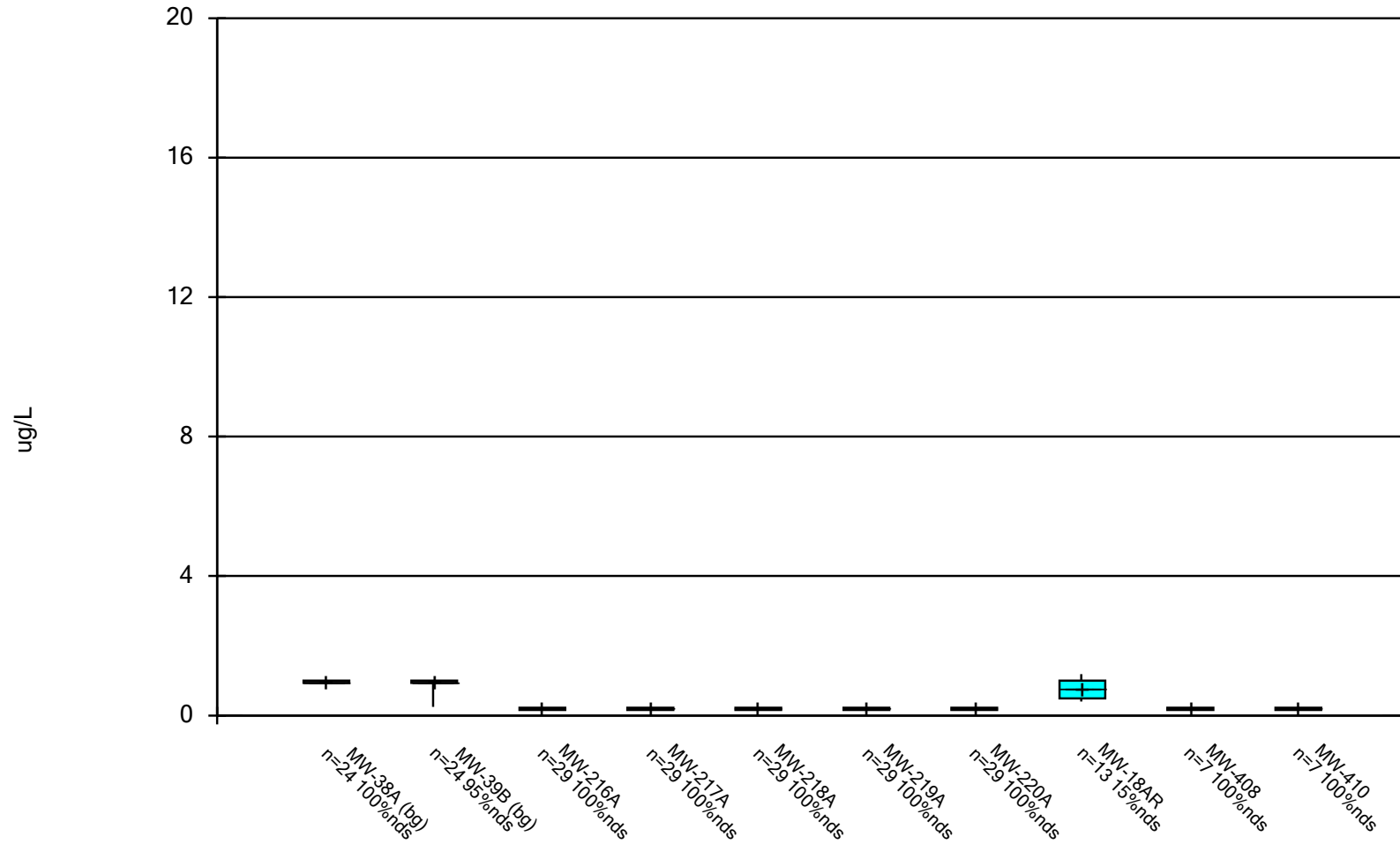
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



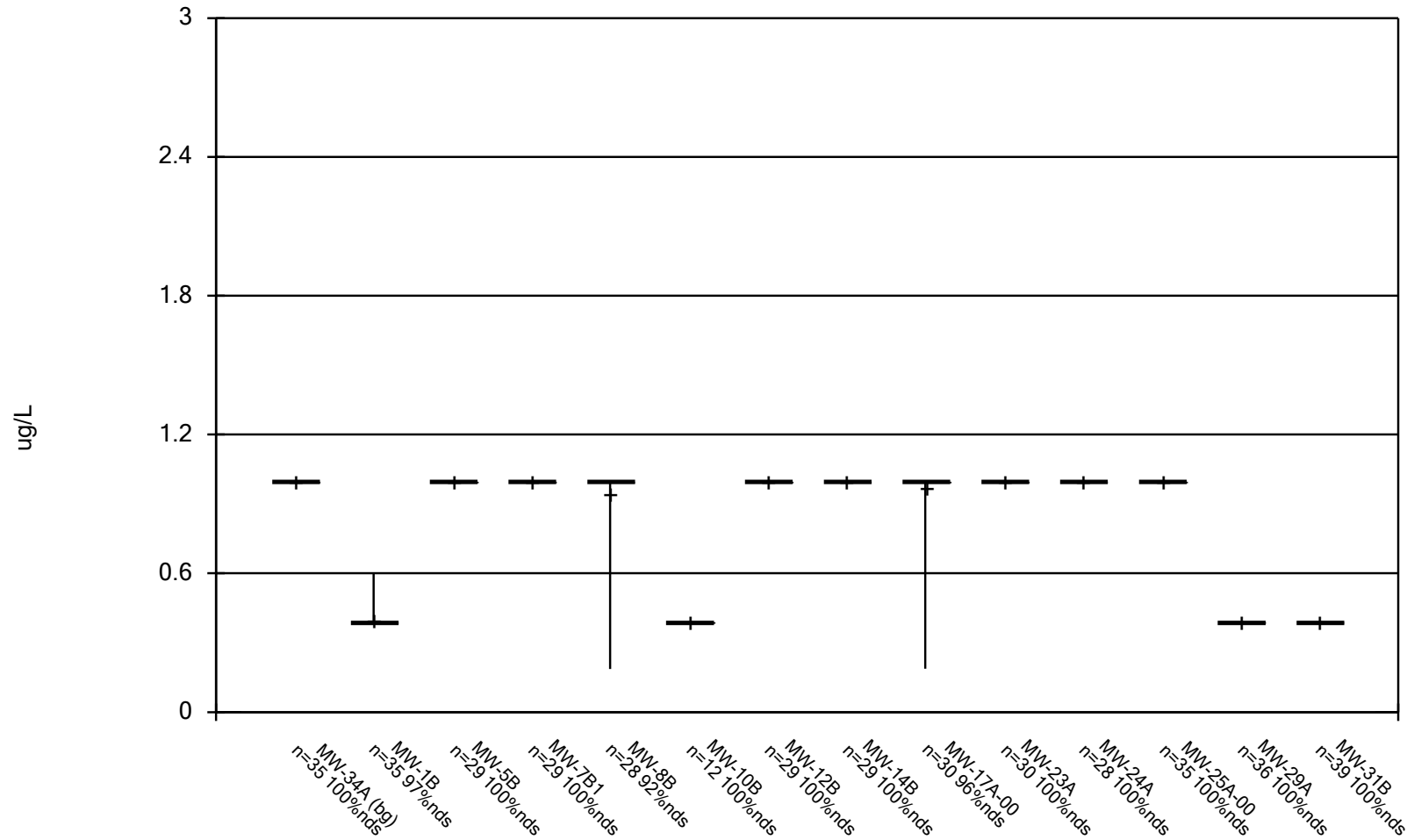
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



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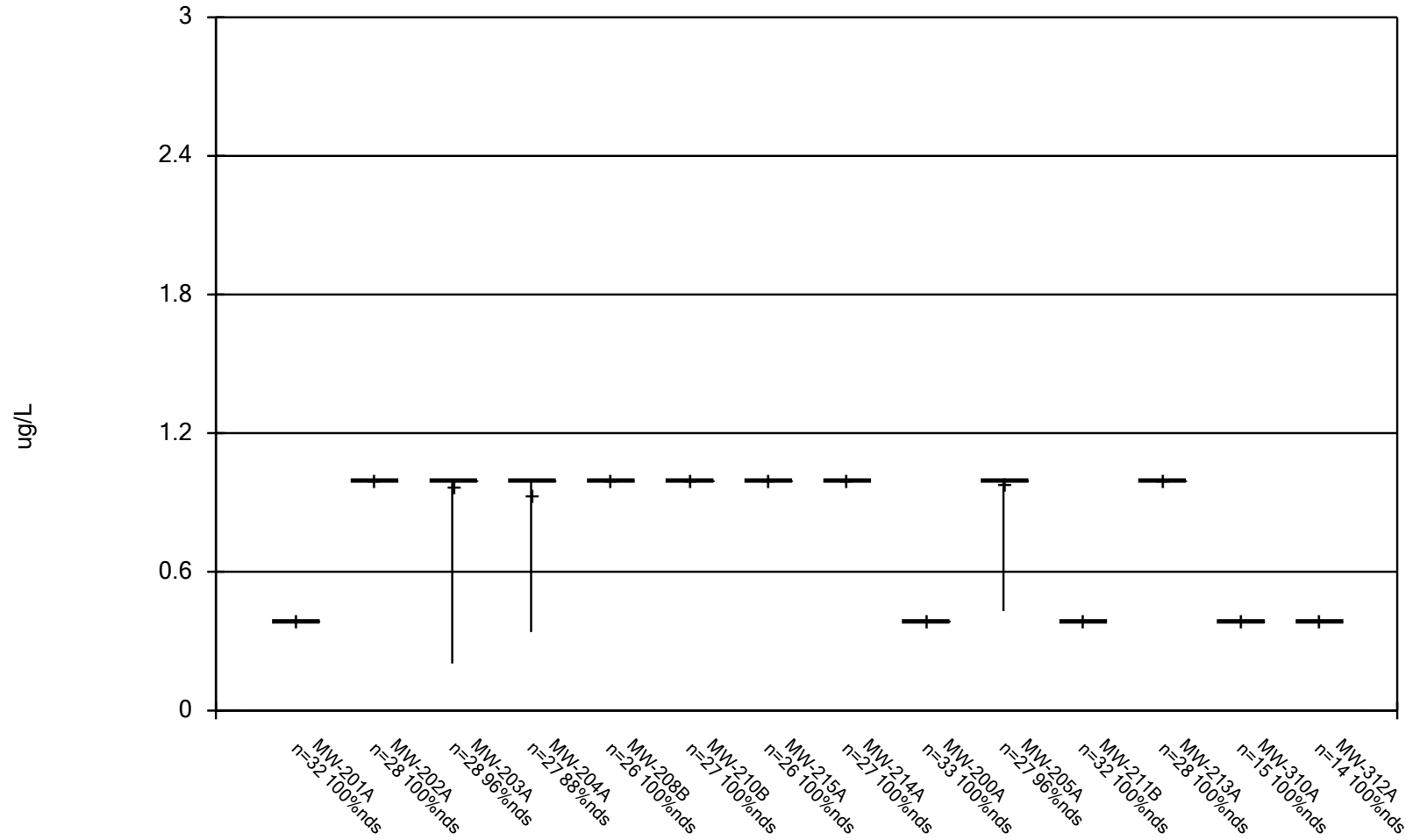
Box & Whiskers Plot



Constituent: 1,2-Dichloroethane Analysis Run 1/21/2025 9:19 PM View: 06A_MW_Organics_PL

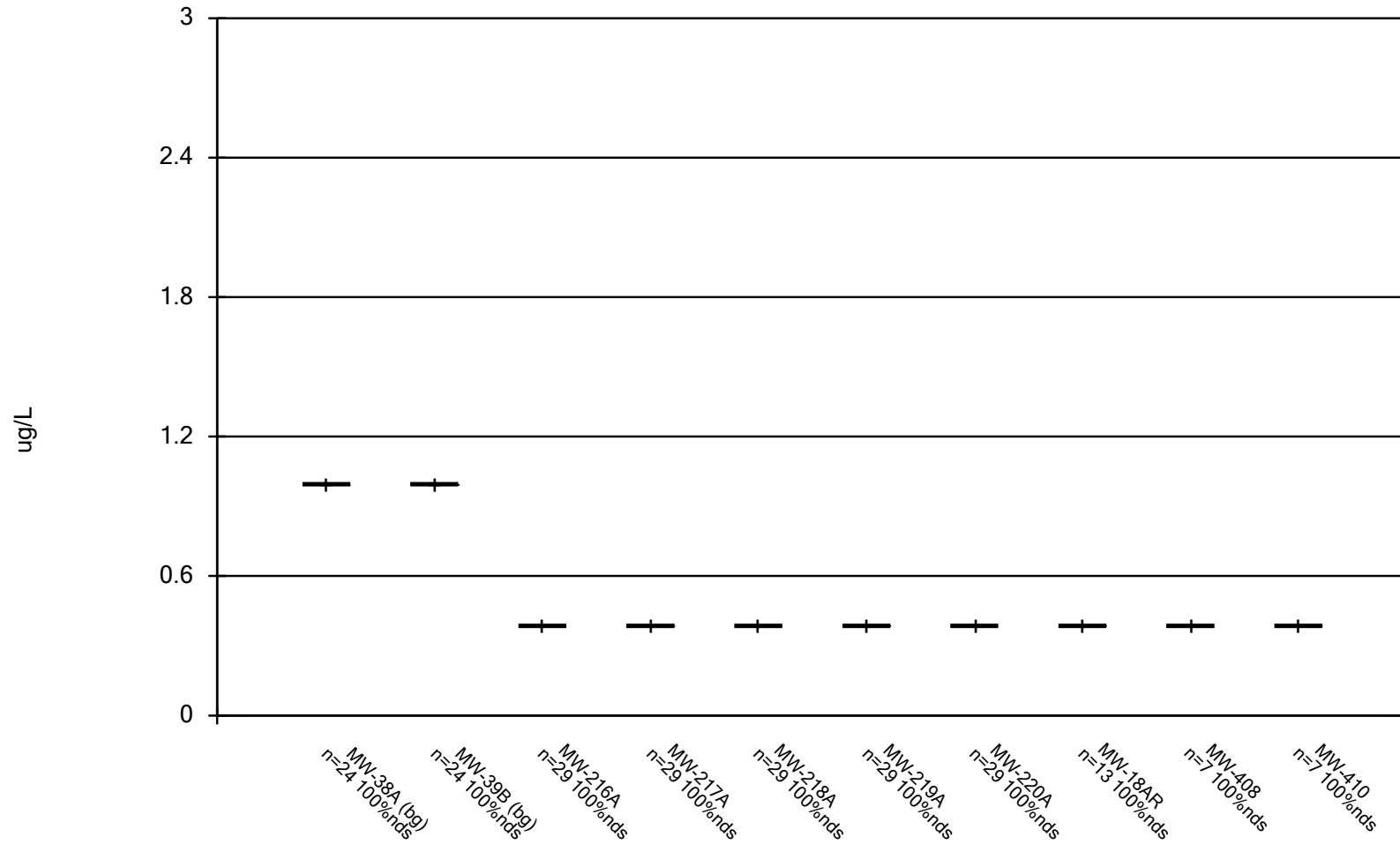
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



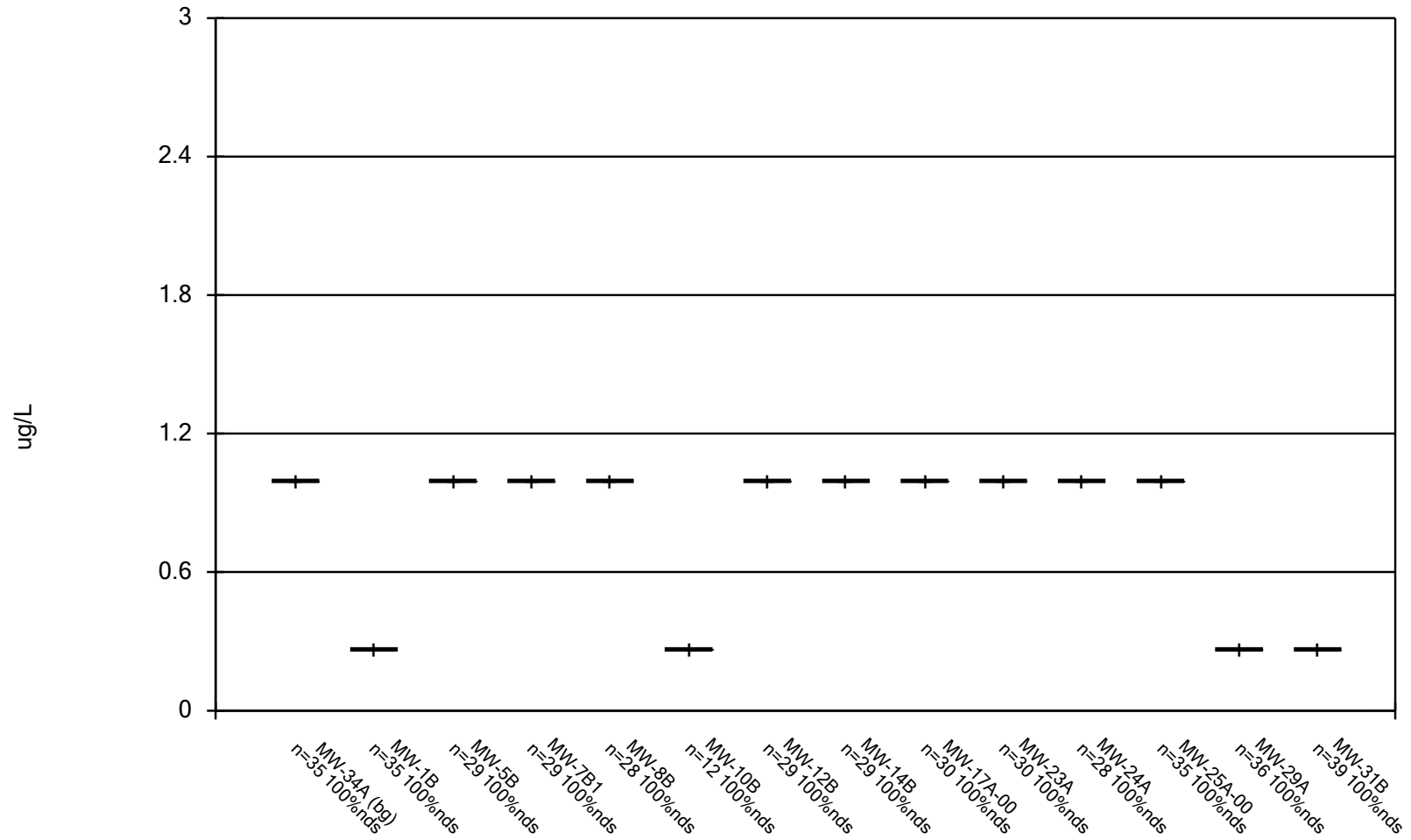
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



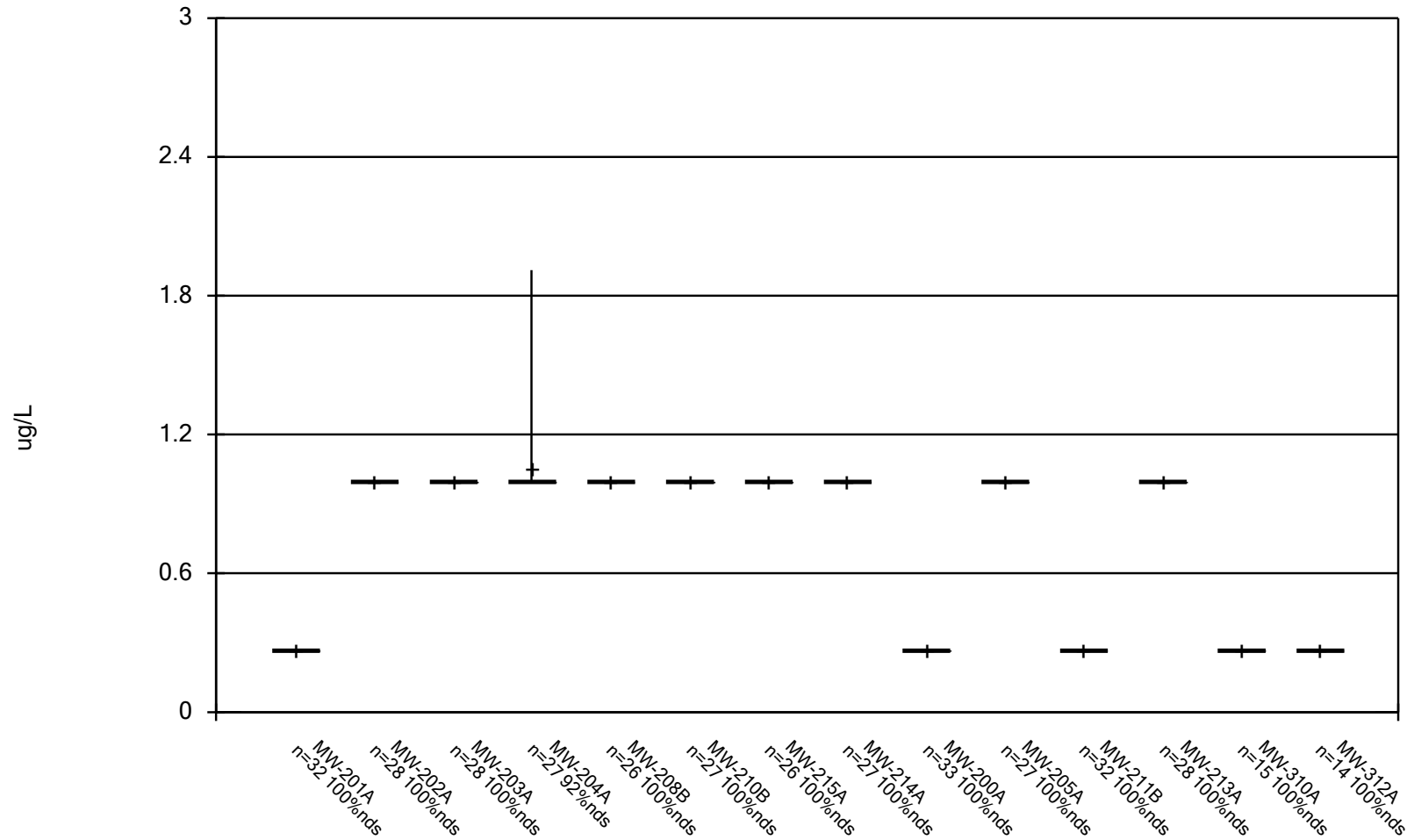
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Box & Whiskers Plot



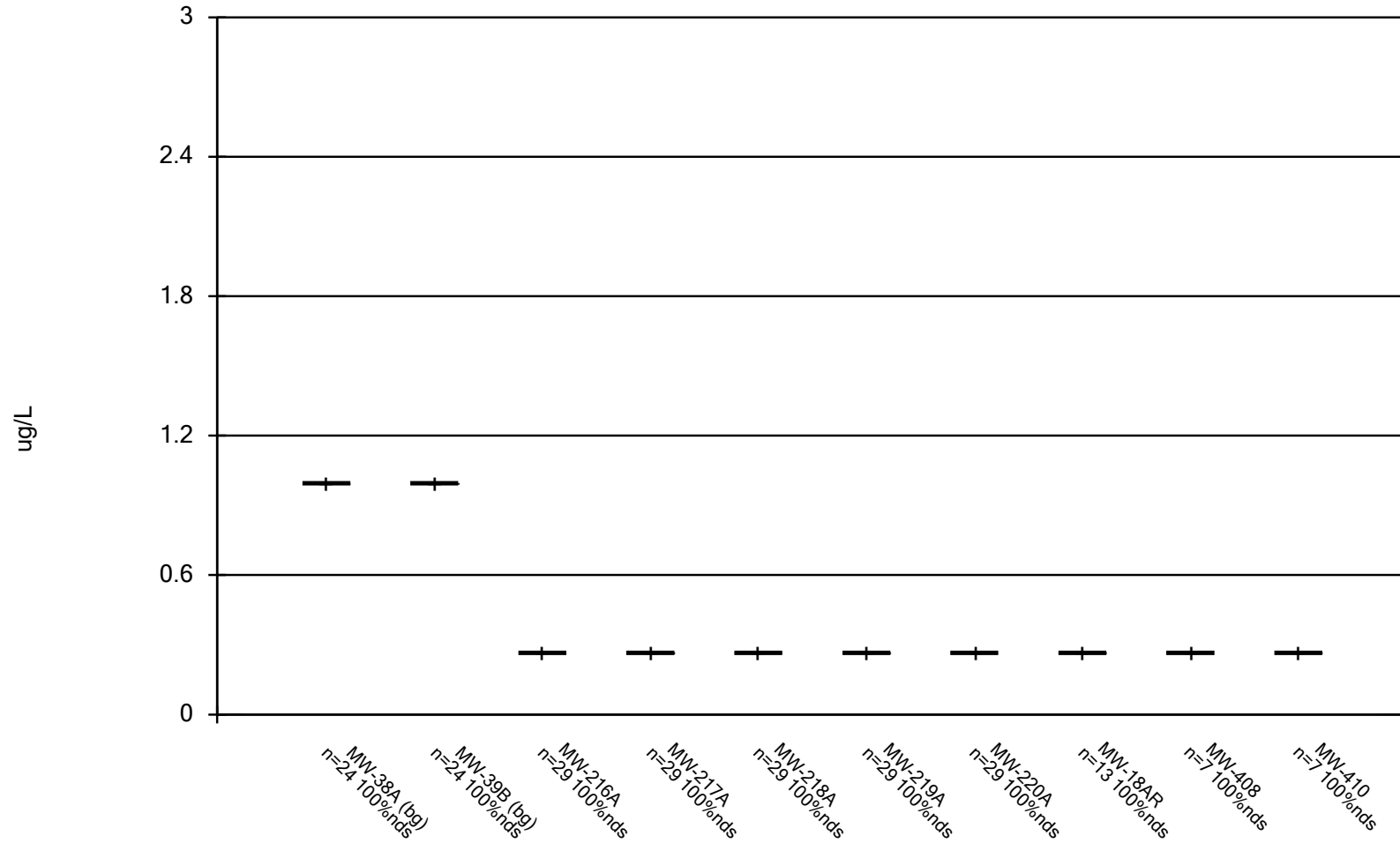
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



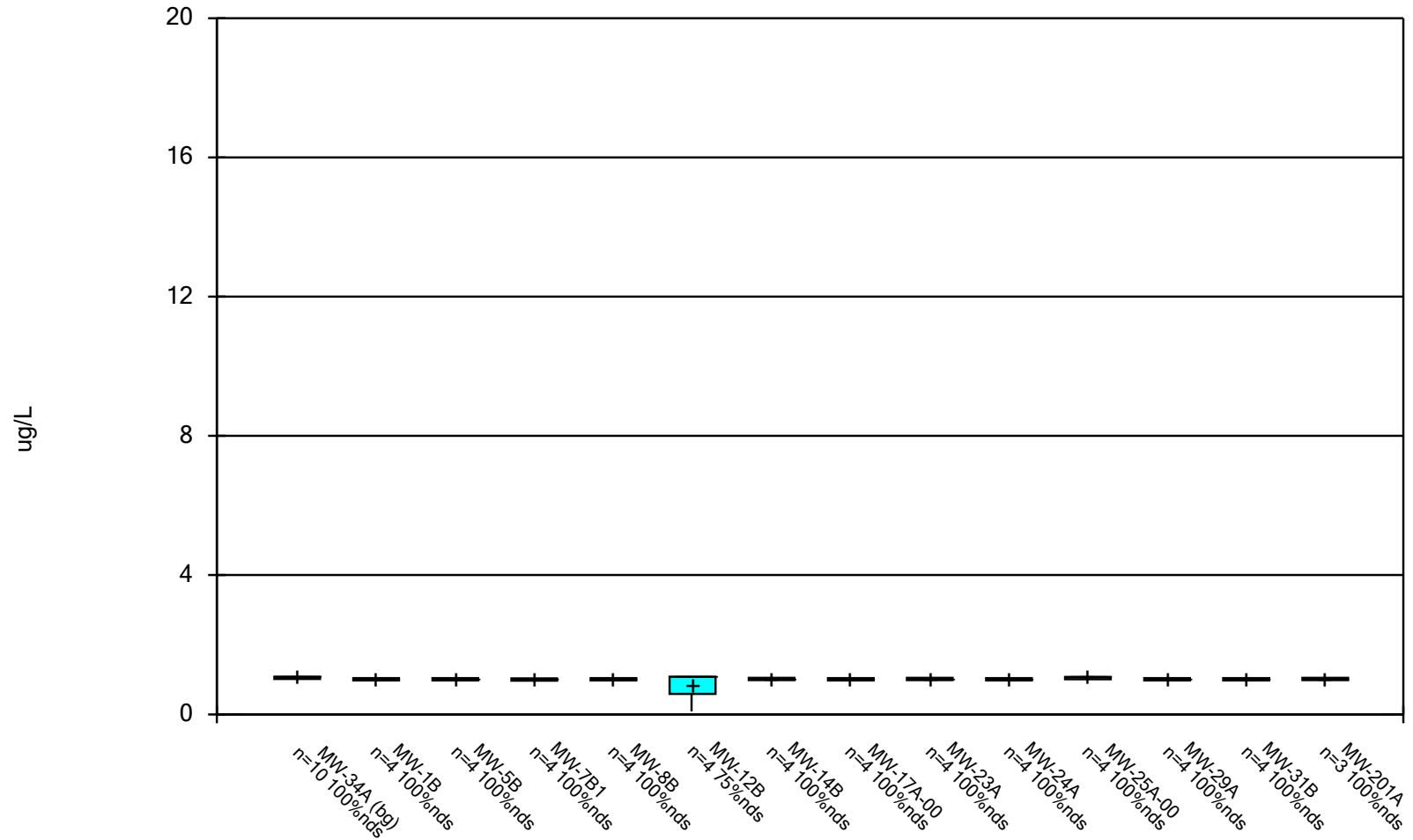
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



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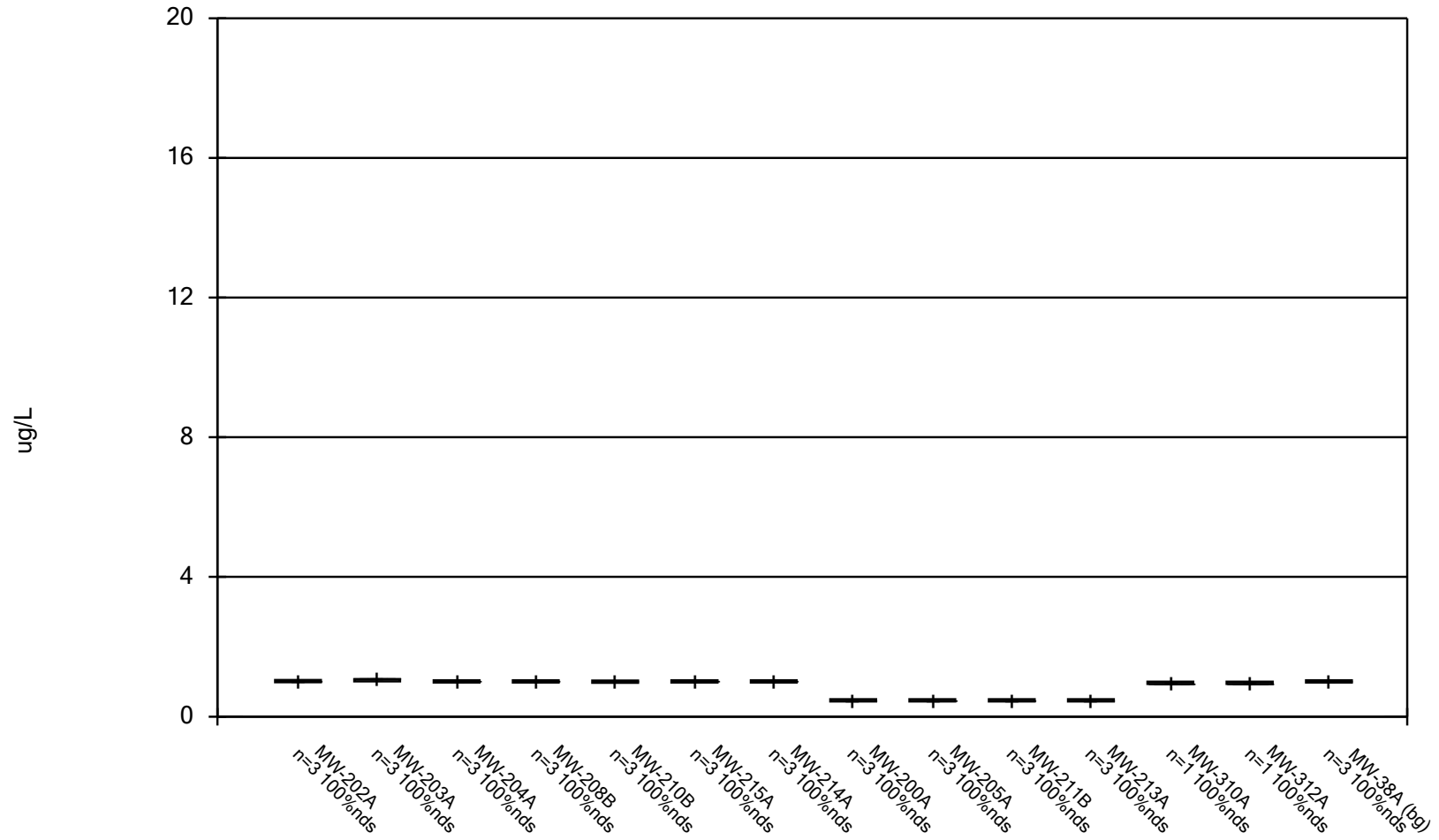
Box & Whiskers Plot



Constituent: 2,4,5-TP [Silvex] Analysis Run 1/21/2025 9:19 PM View: 06A_MW_Organics_PL

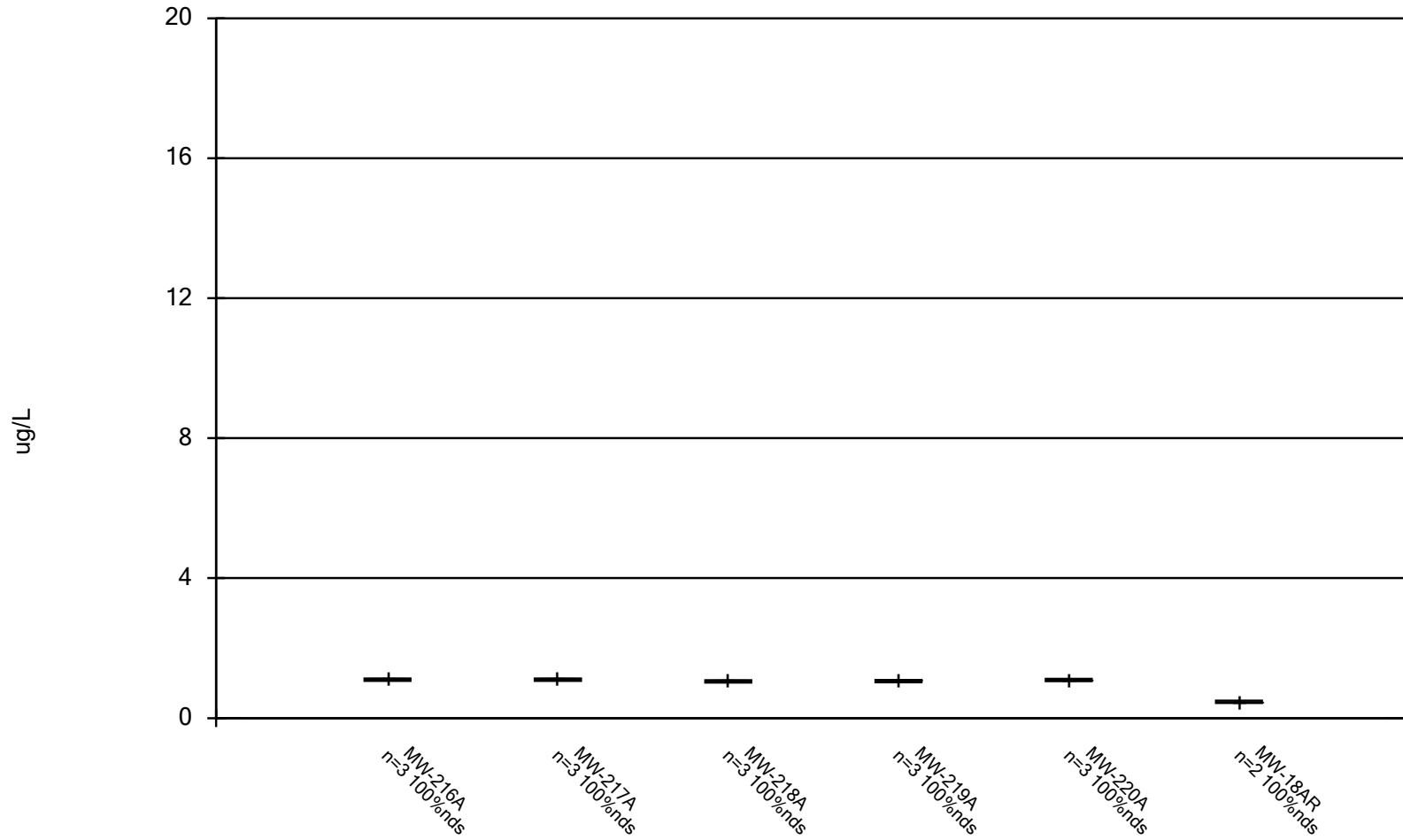
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



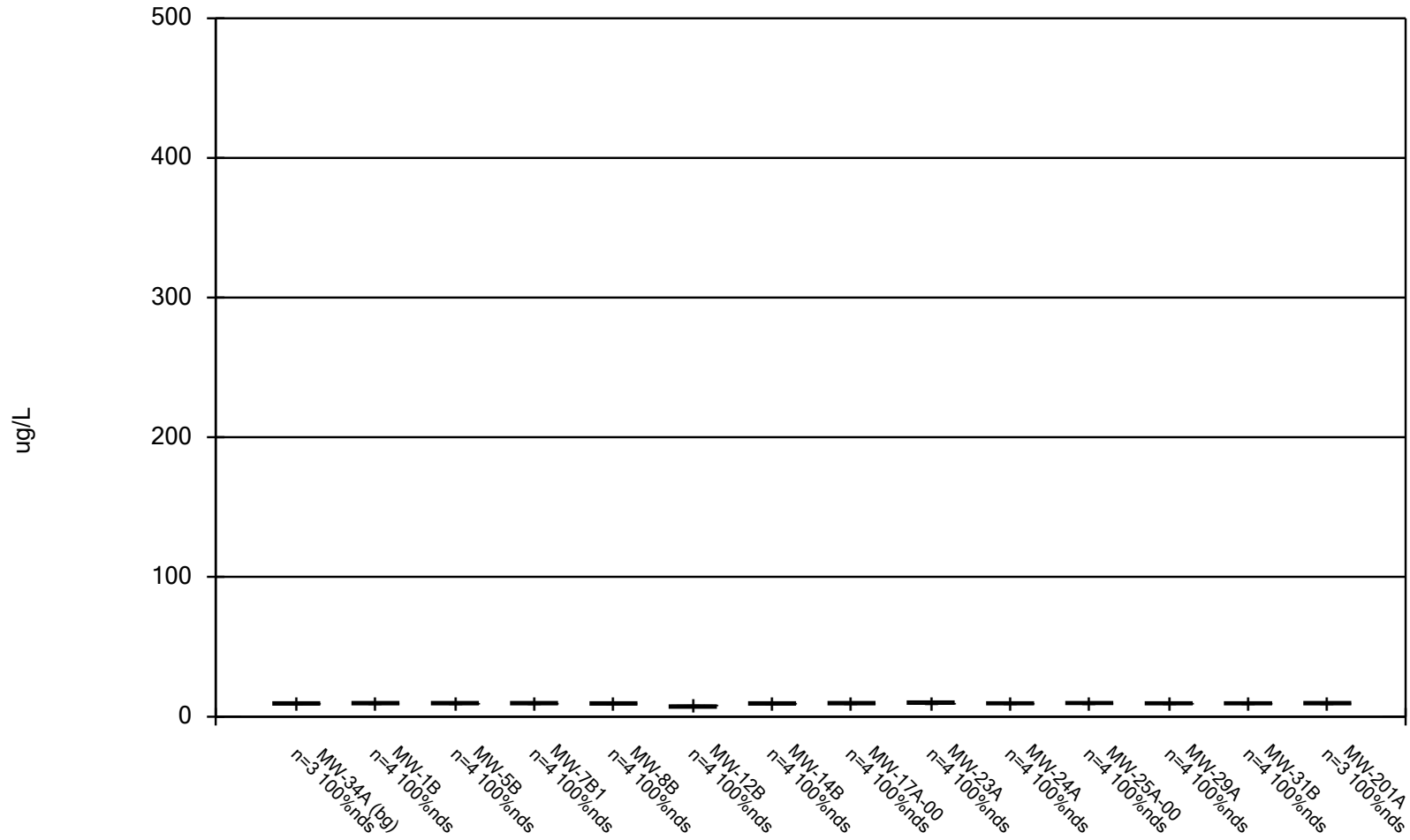
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



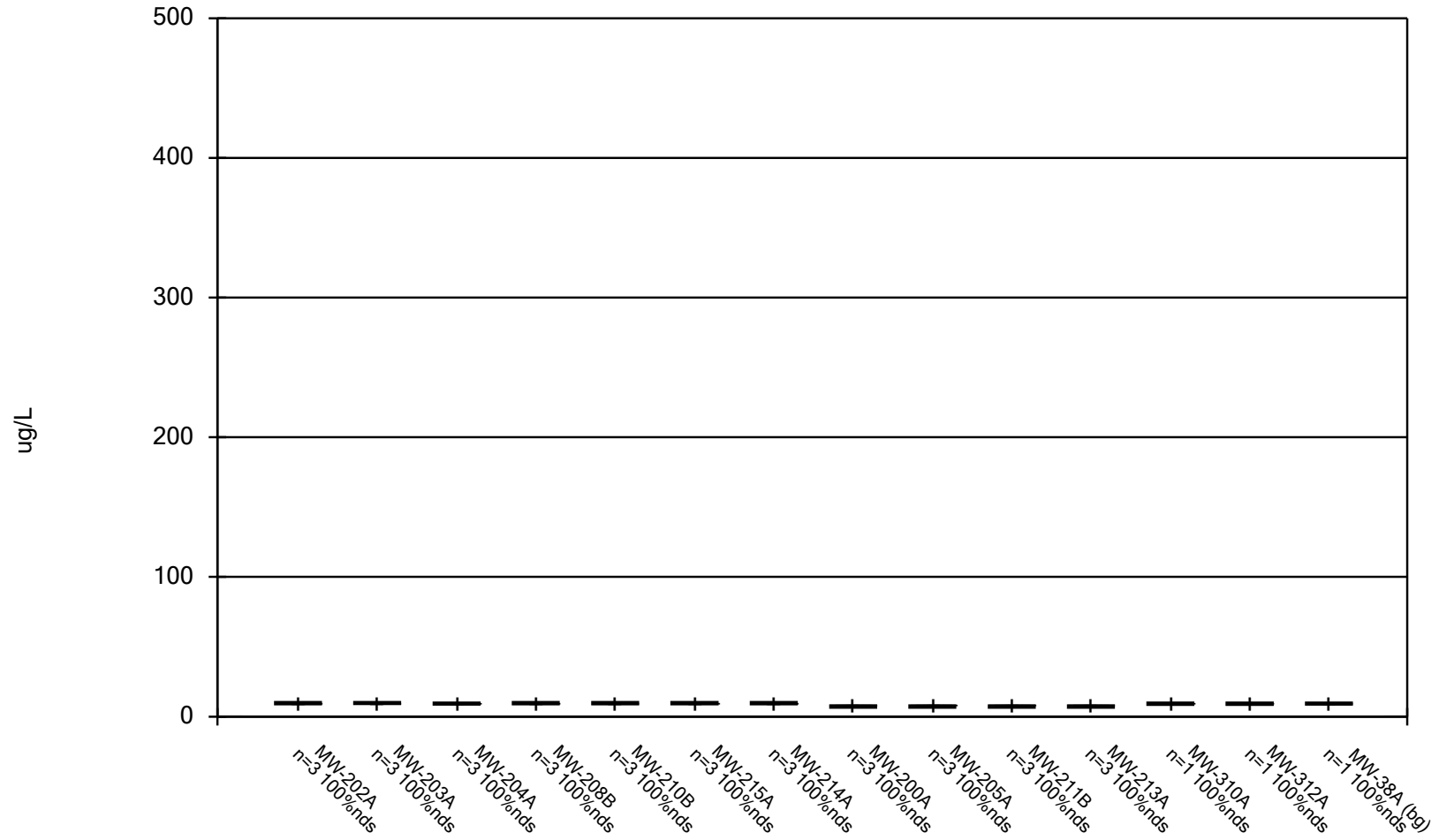
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



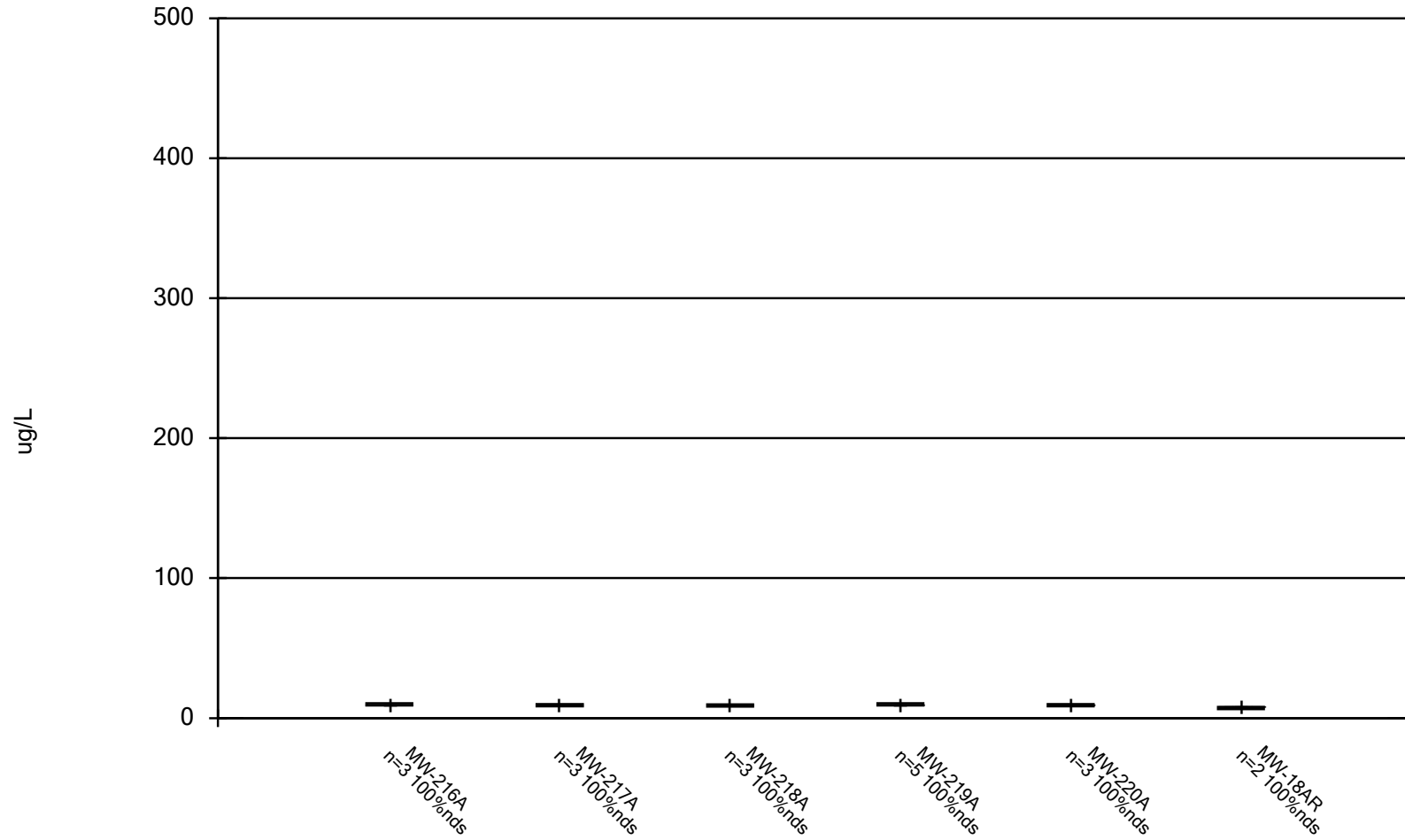
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



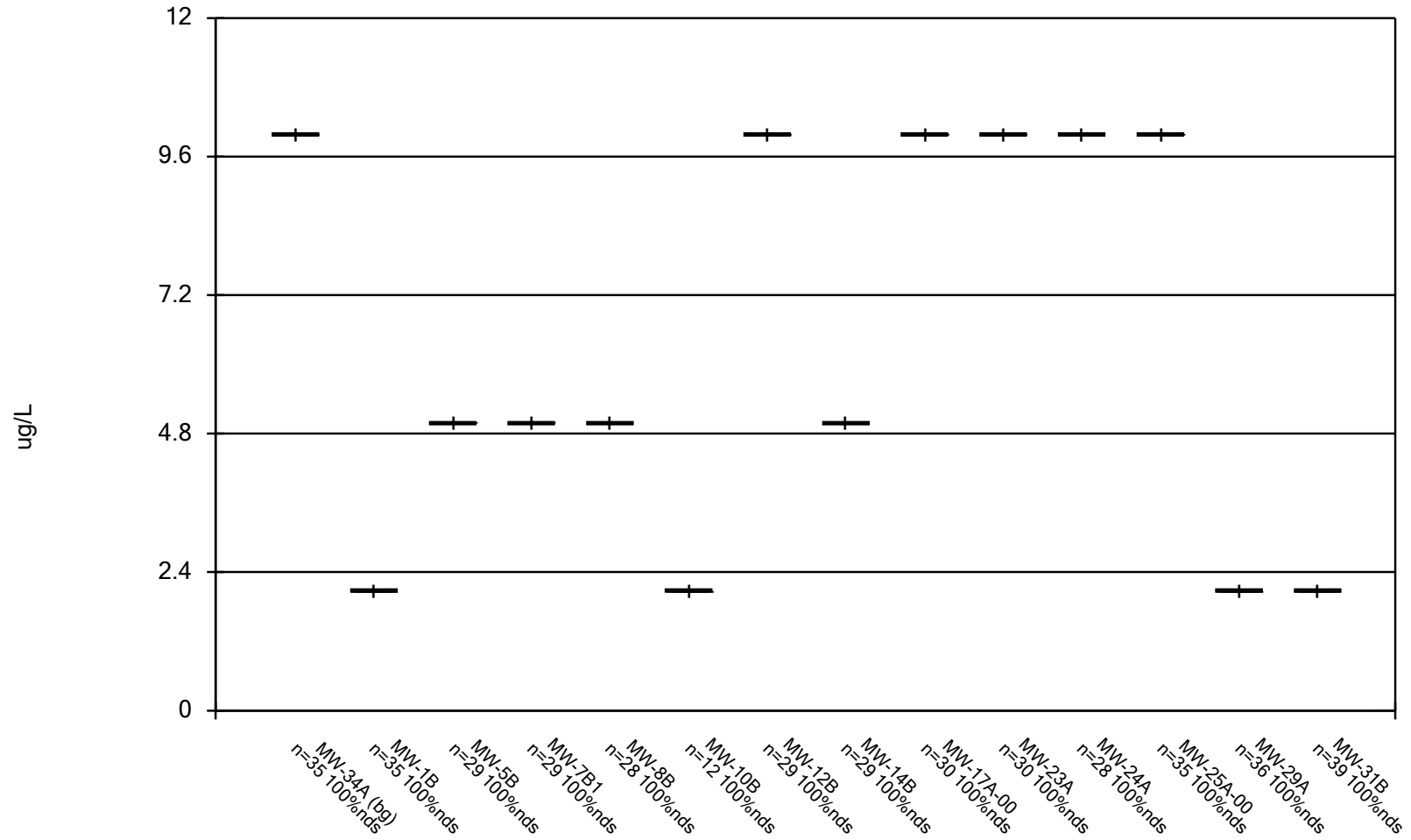
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: 2,4-Dimethylphenol Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

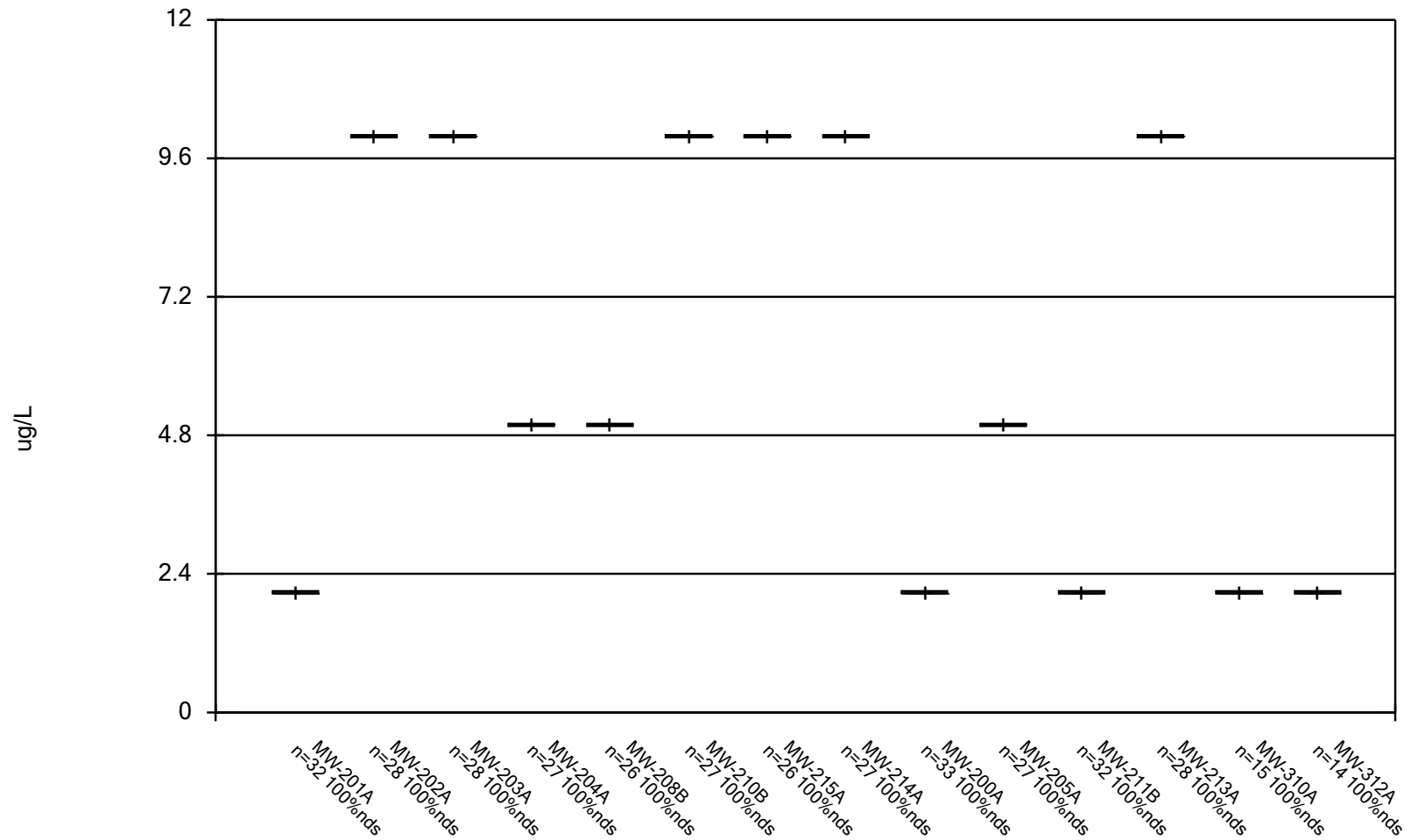
Box & Whiskers Plot



Constituent: 2-Butanone [MEK] Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

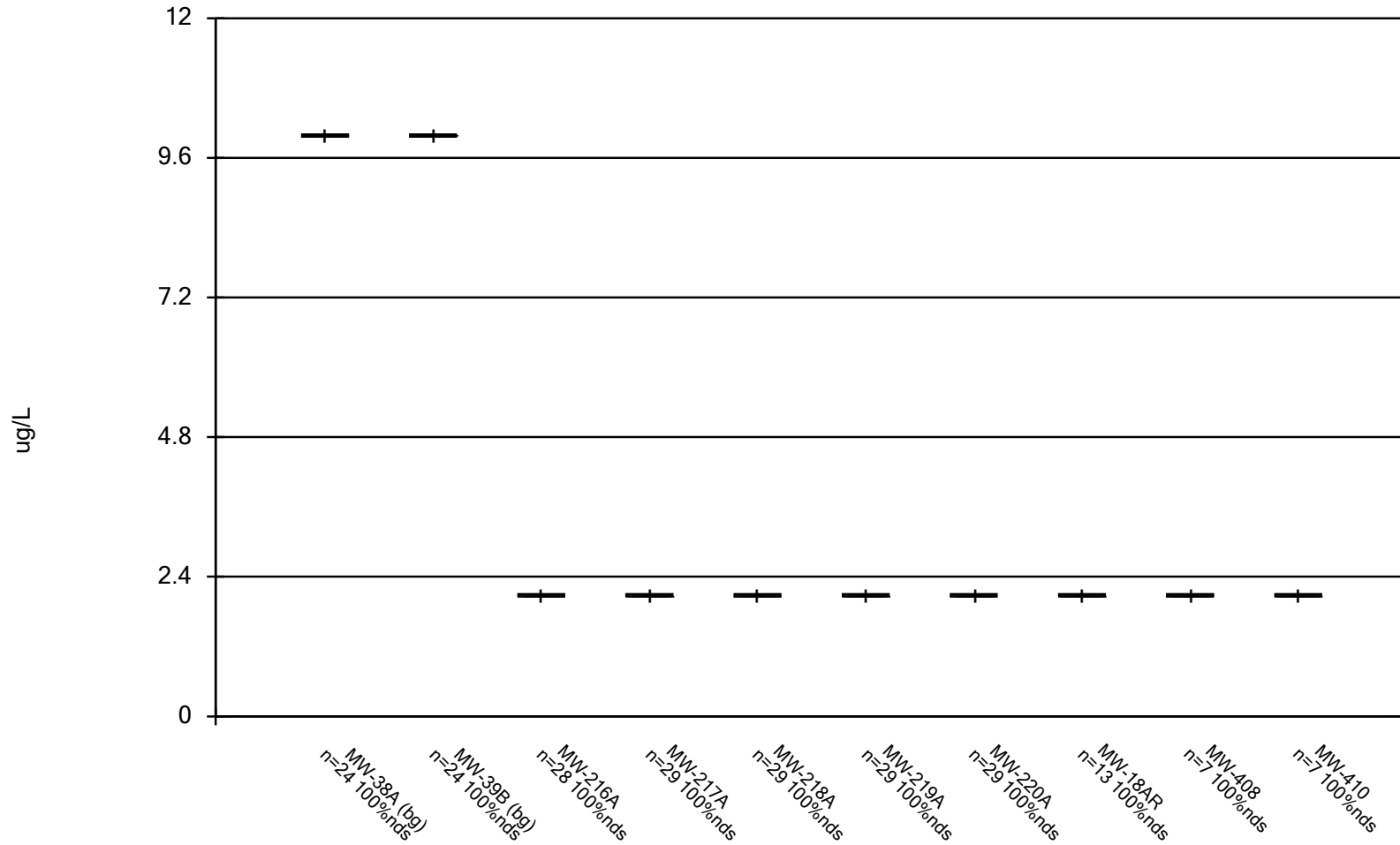
Box & Whiskers Plot



Constituent: 2-Butanone [MEK] Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

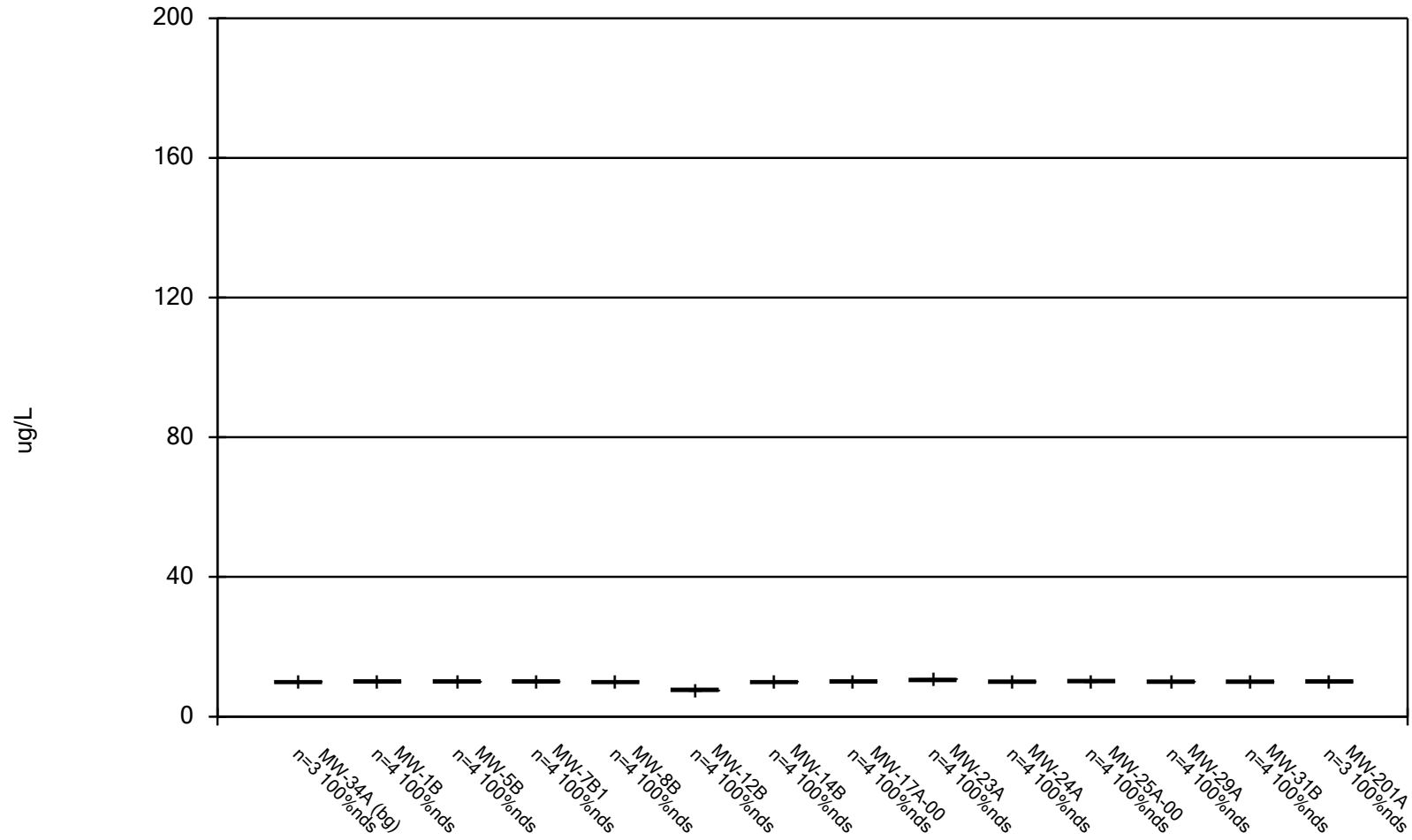
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



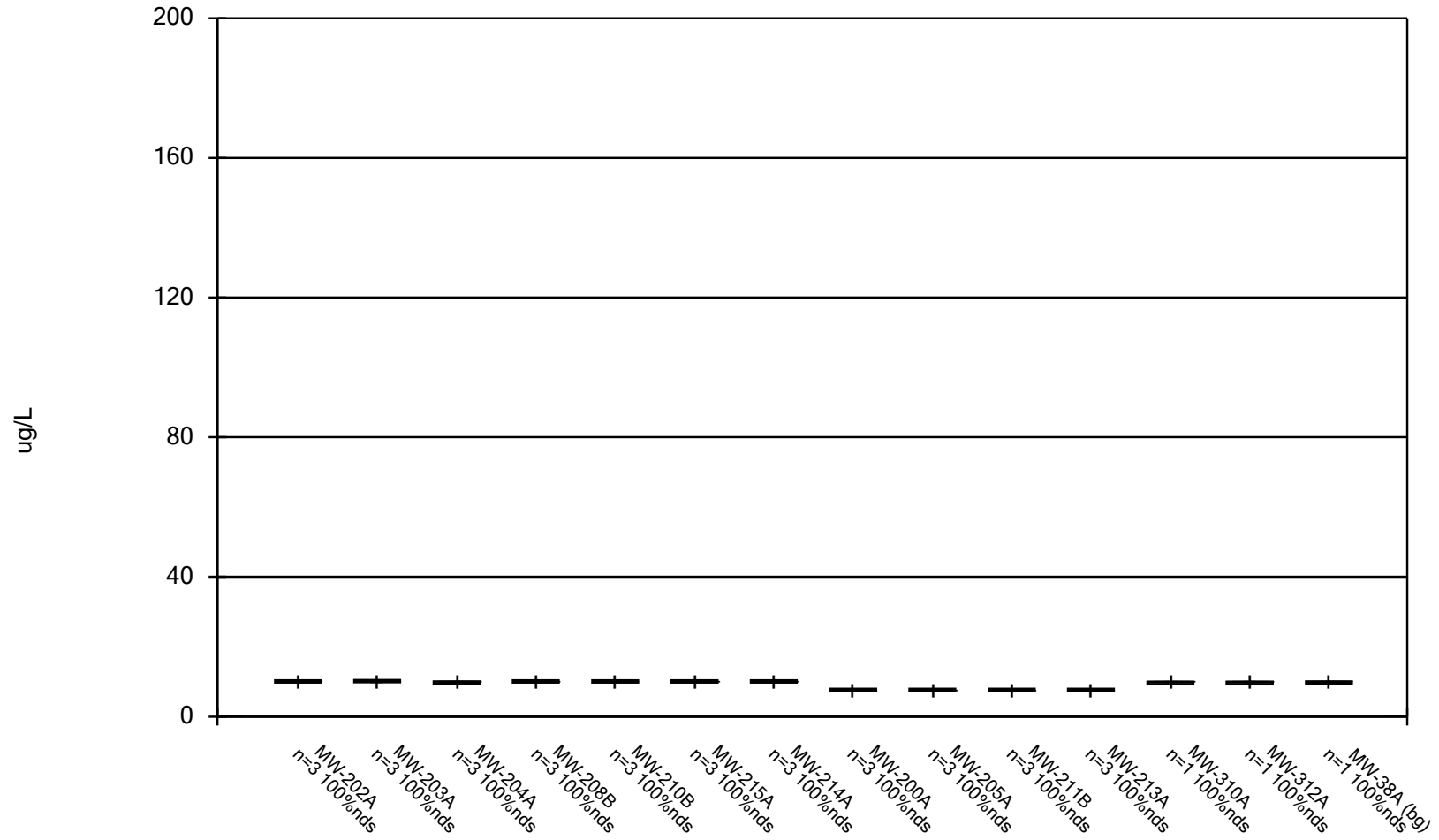
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Box & Whiskers Plot



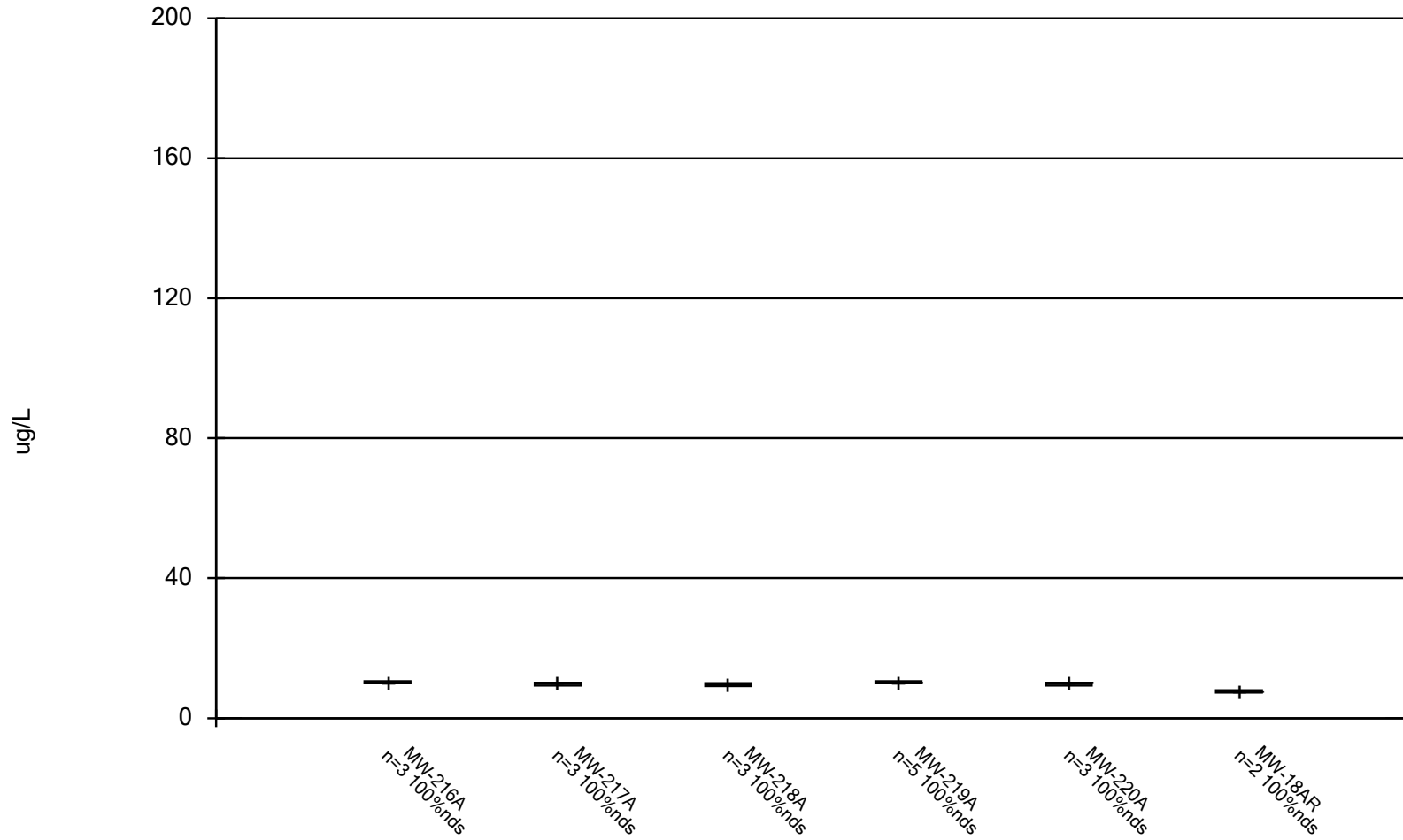
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



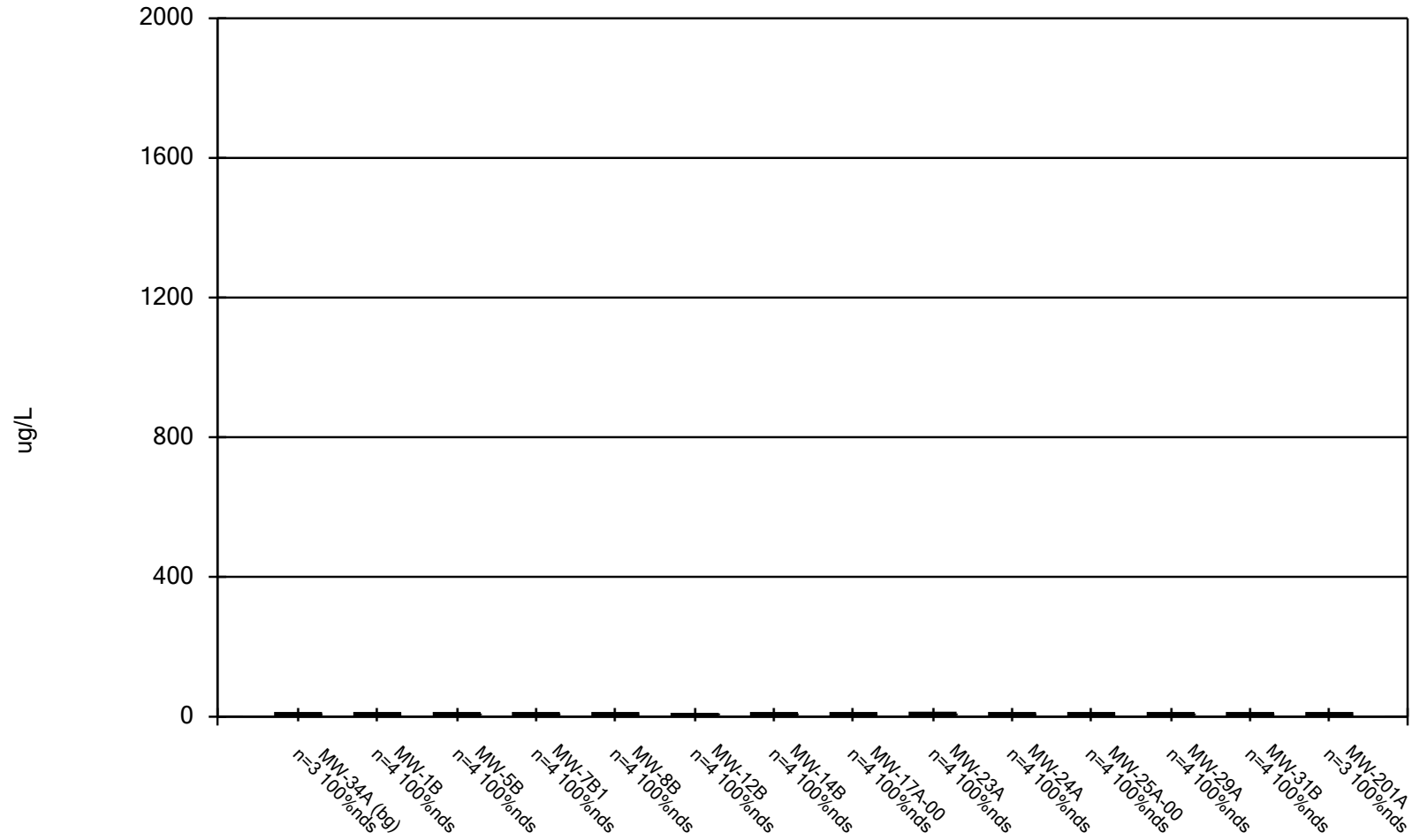
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Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: 2-Methylnaphthalene Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

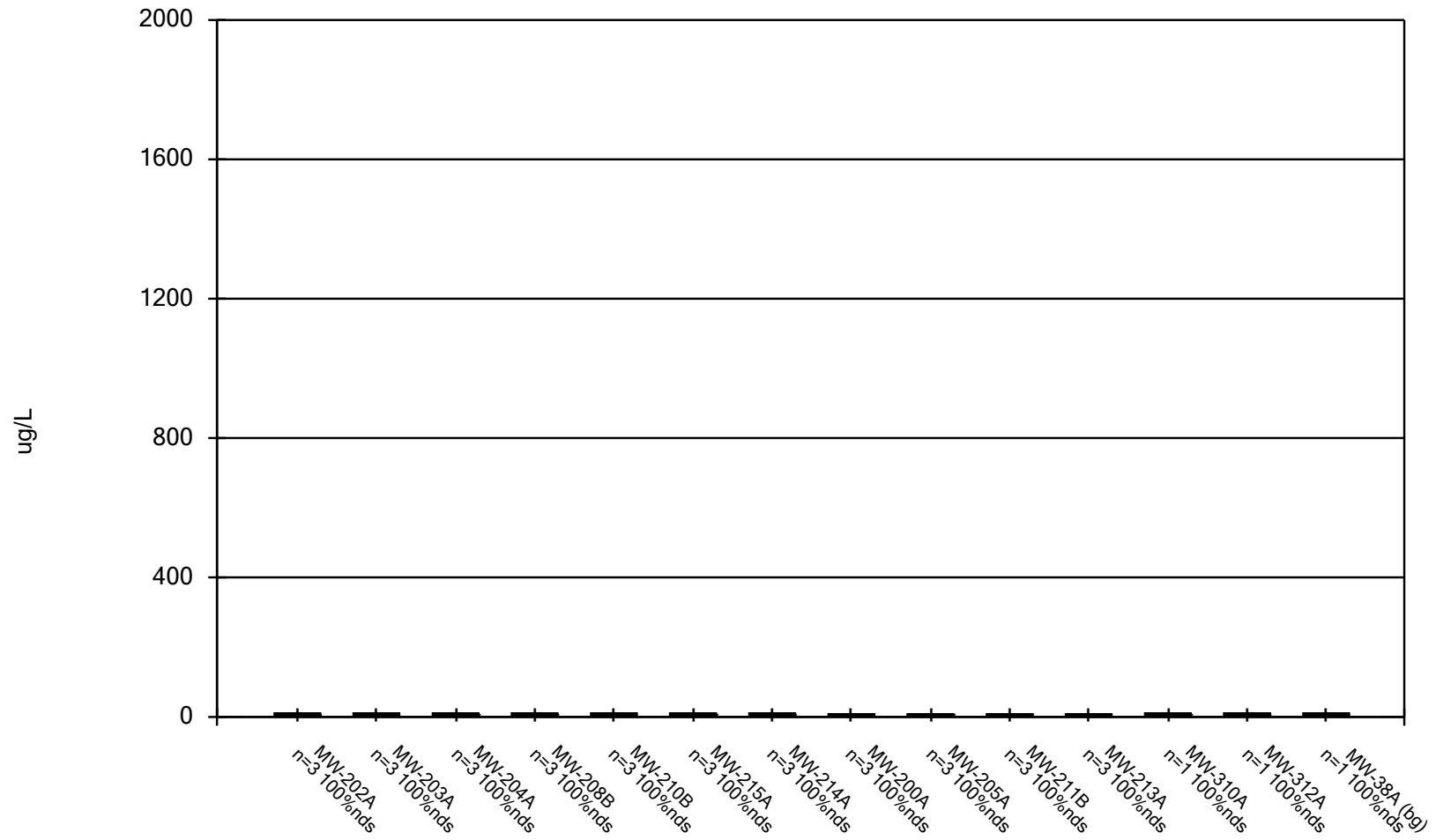
Box & Whiskers Plot



Constituent: 2-Methylphenol Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

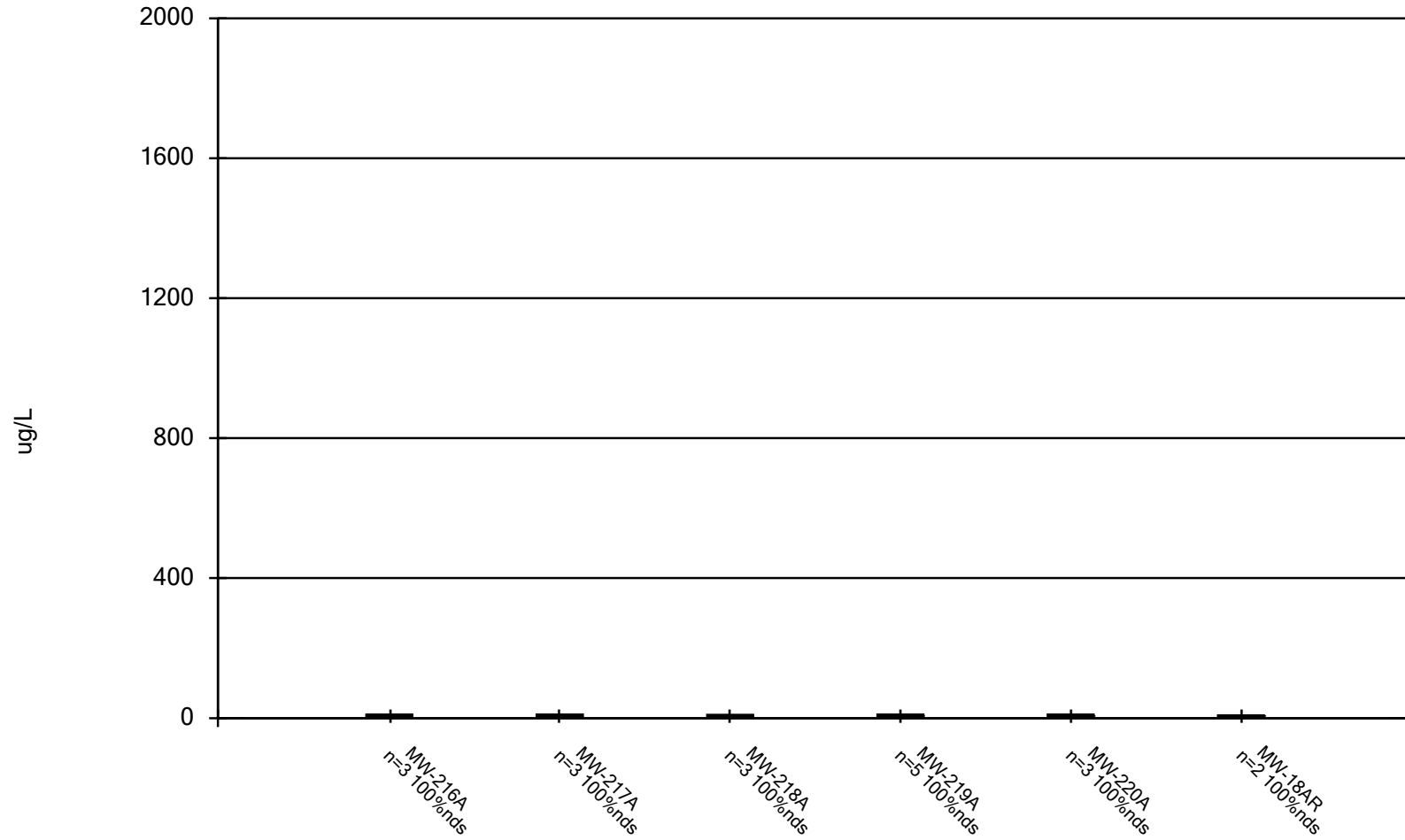
Box & Whiskers Plot



Constituent: 2-Methylphenol Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

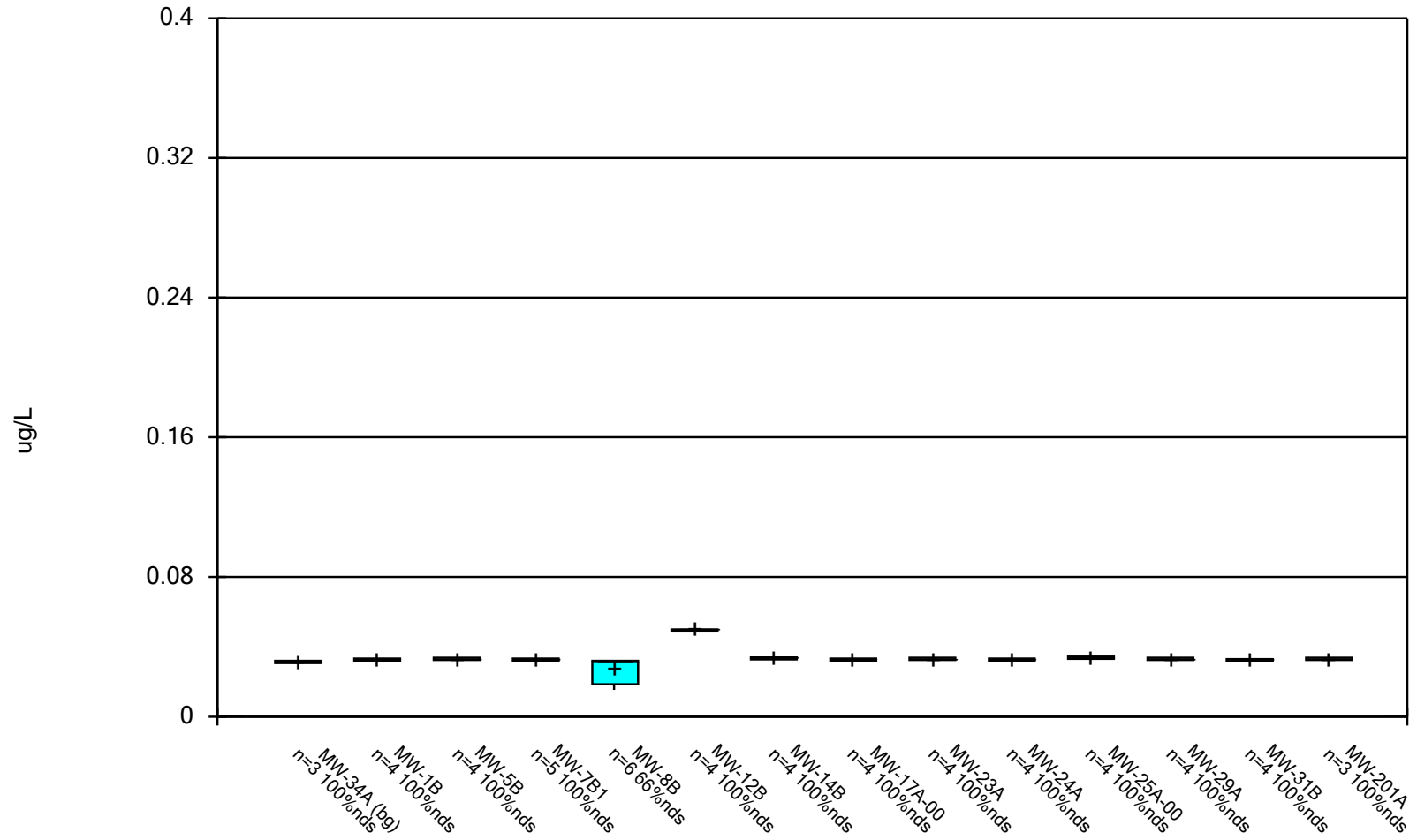
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: 2-Methylphenol Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

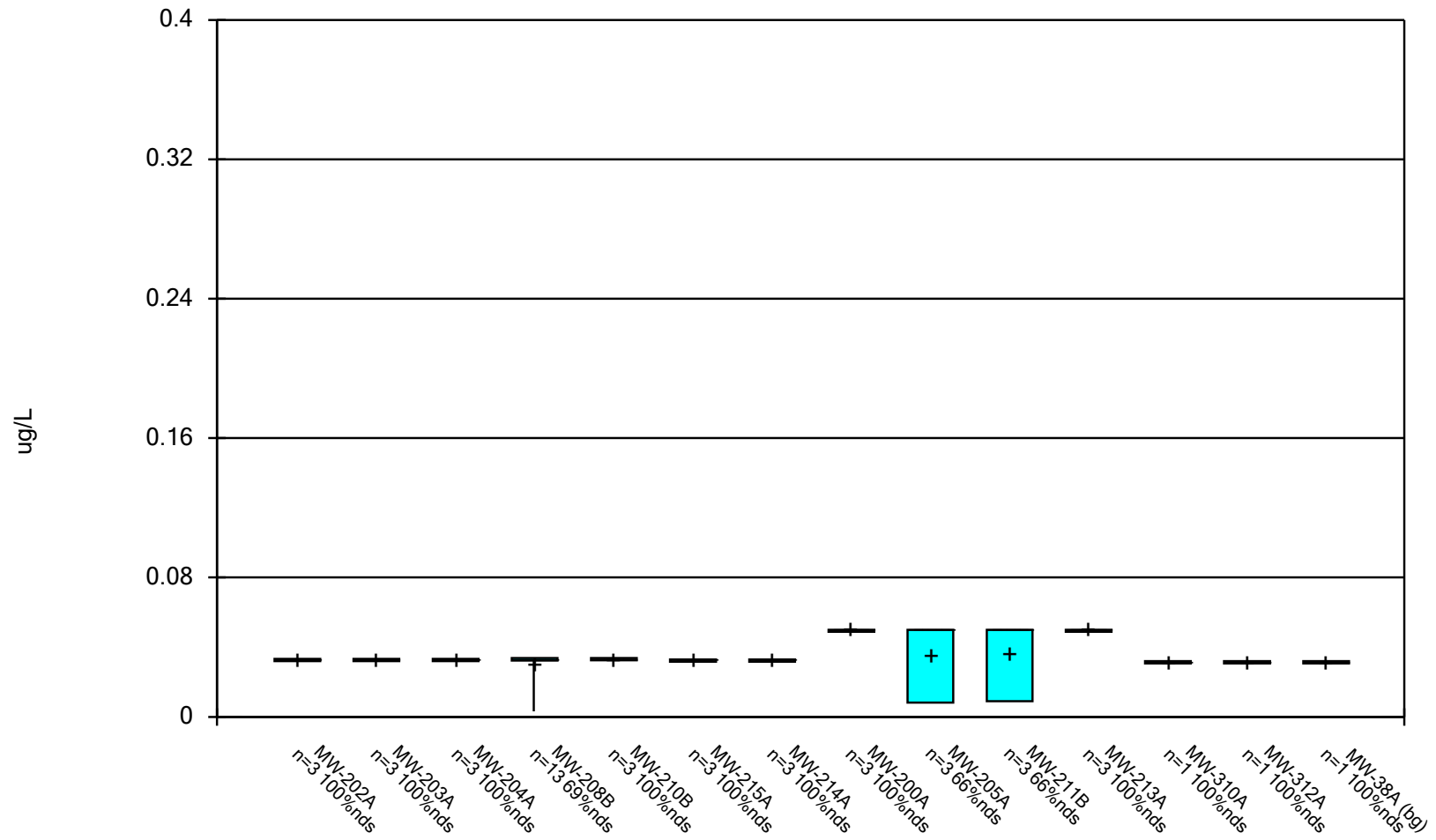
Box & Whiskers Plot



Constituent: 4,4'-DDD Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

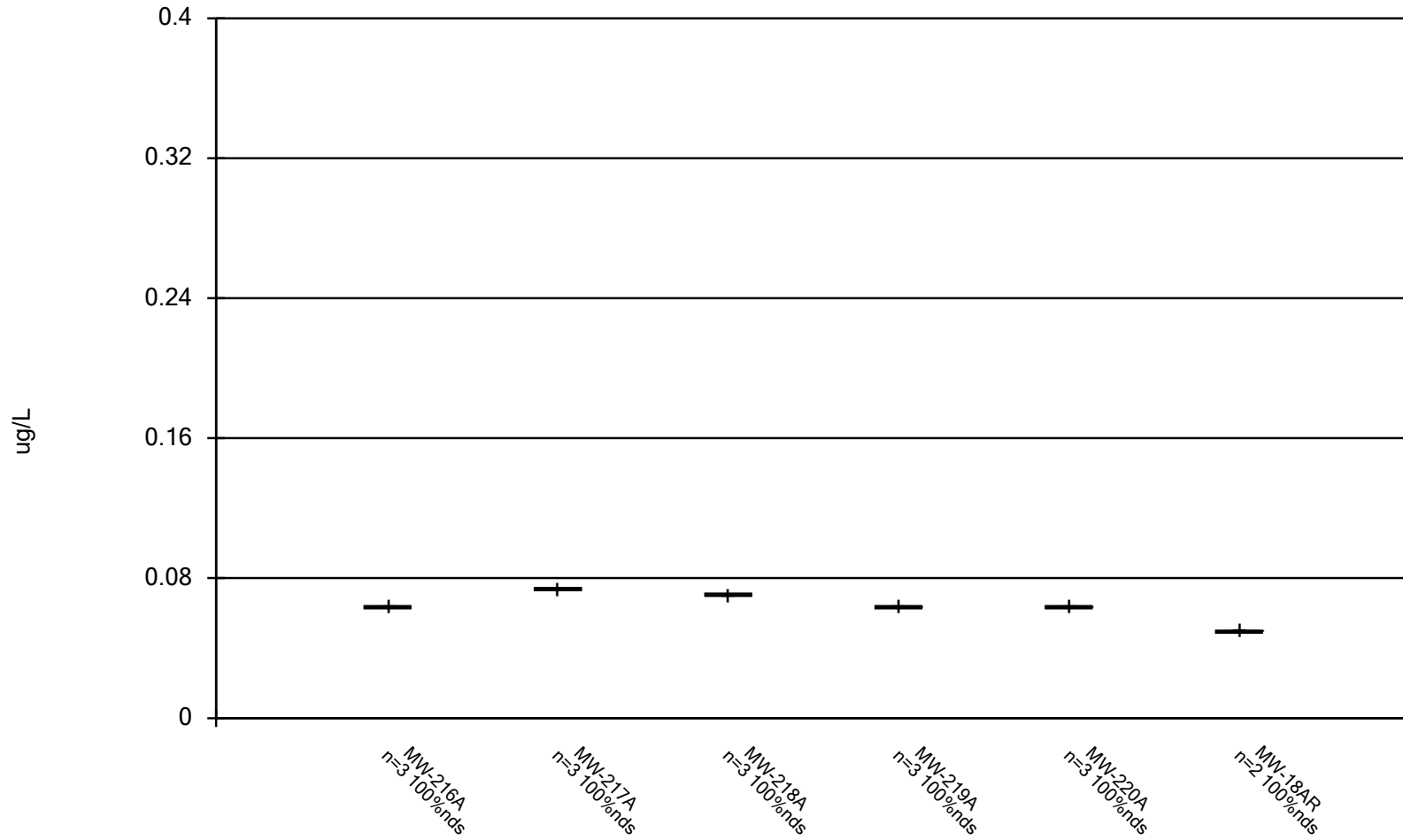
Box & Whiskers Plot



Constituent: 4,4'-DDD Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

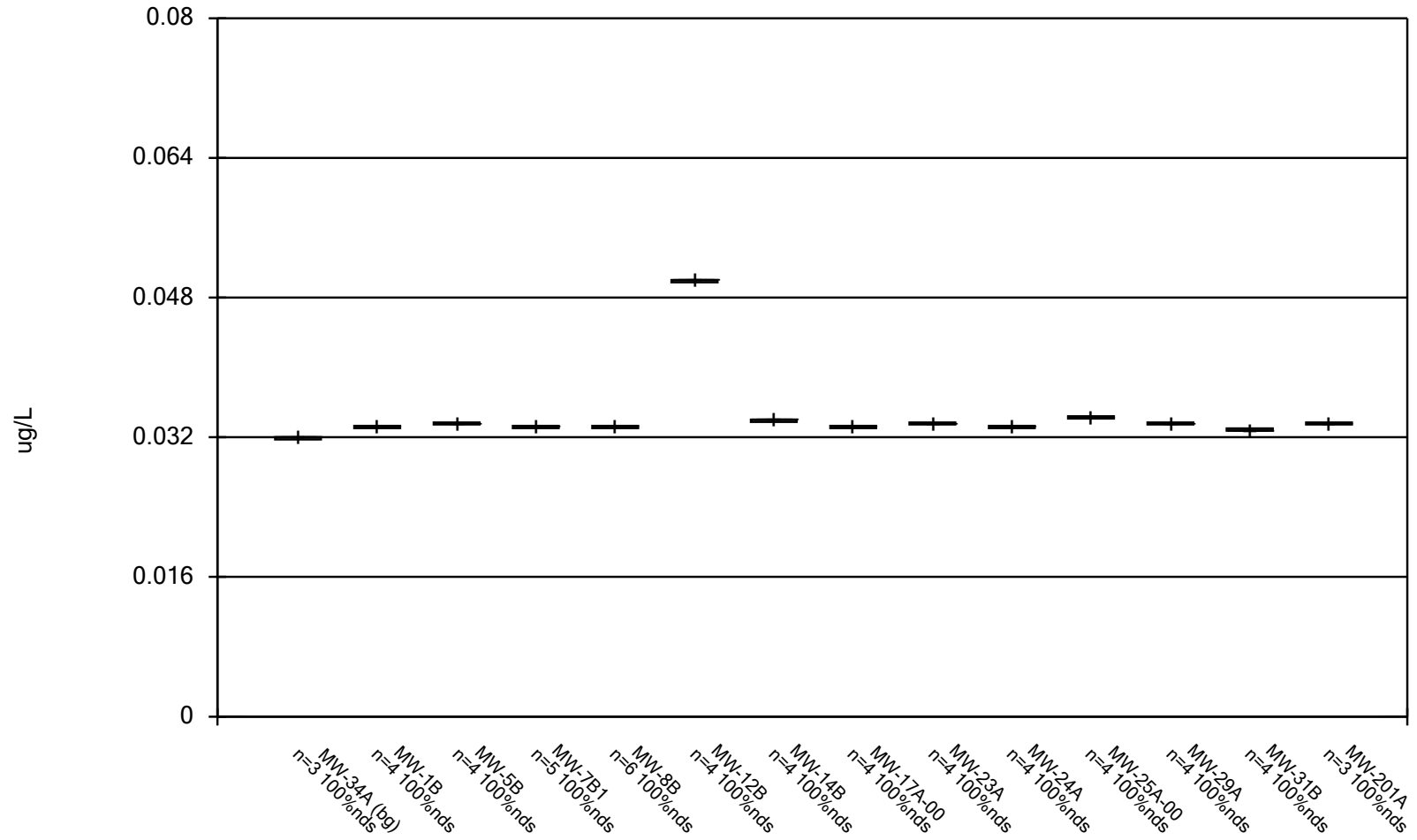
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: 4,4'-DDD Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

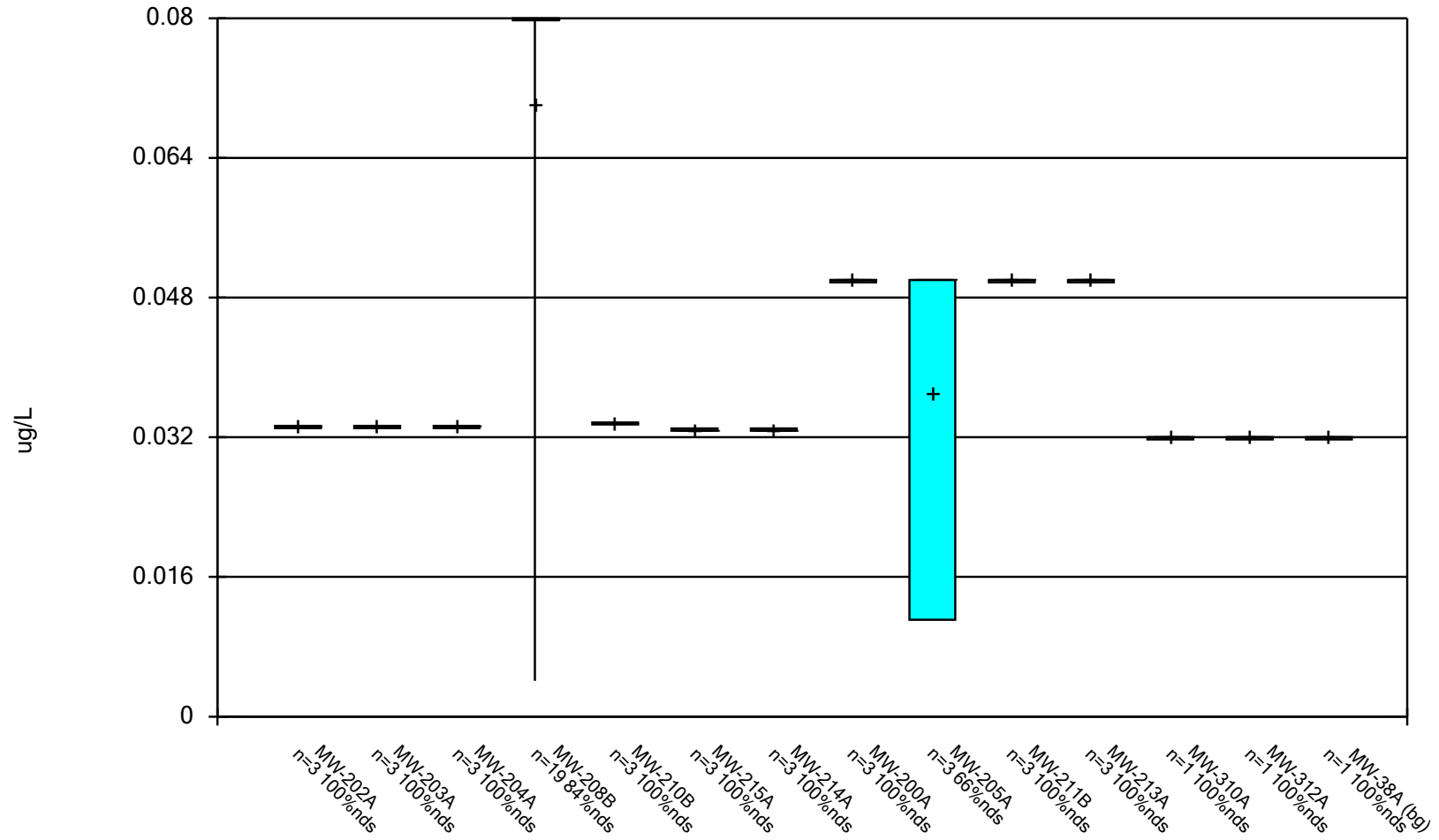
Box & Whiskers Plot



Constituent: 4,4'-DDT Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

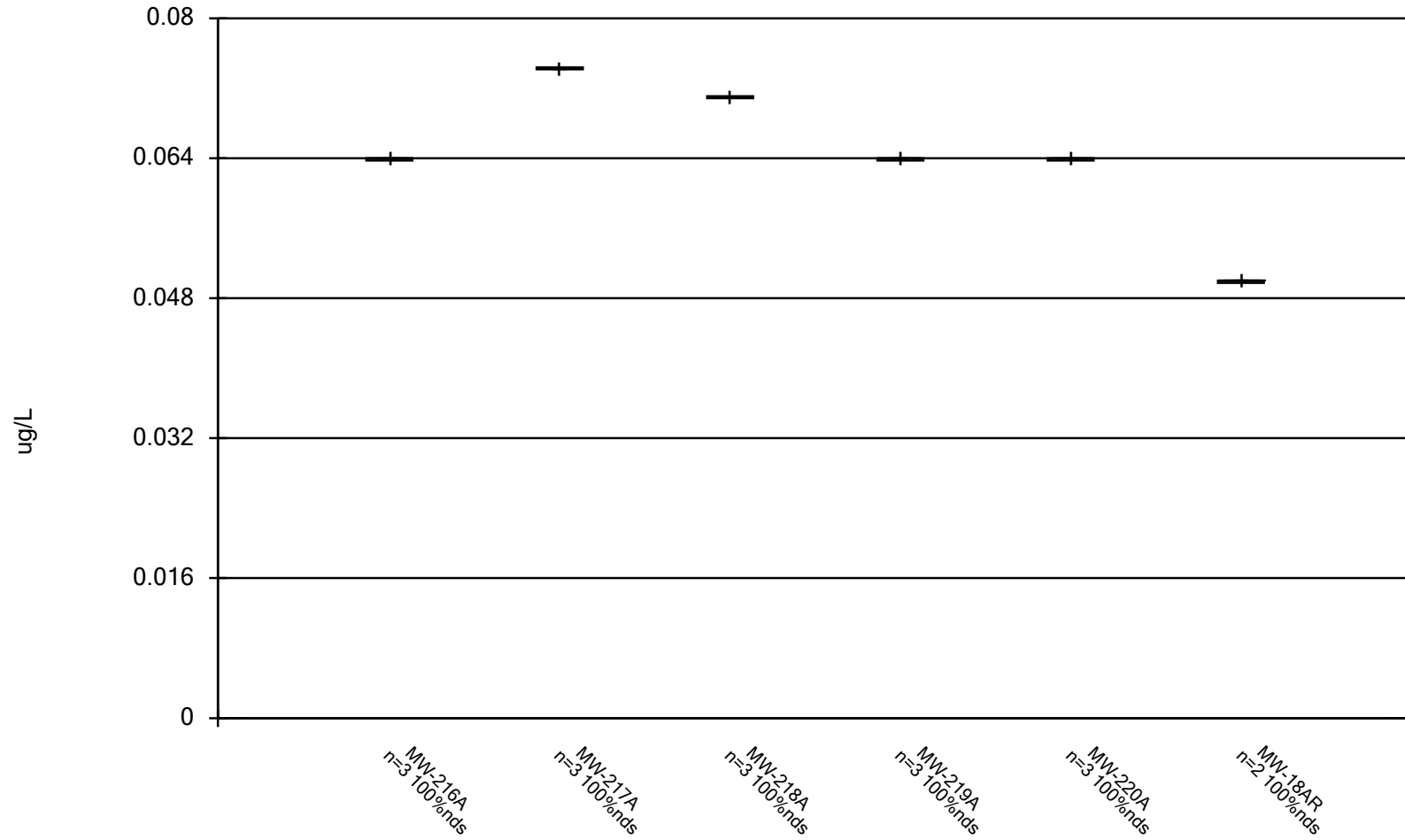
Box & Whiskers Plot



Constituent: 4,4'-DDT Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

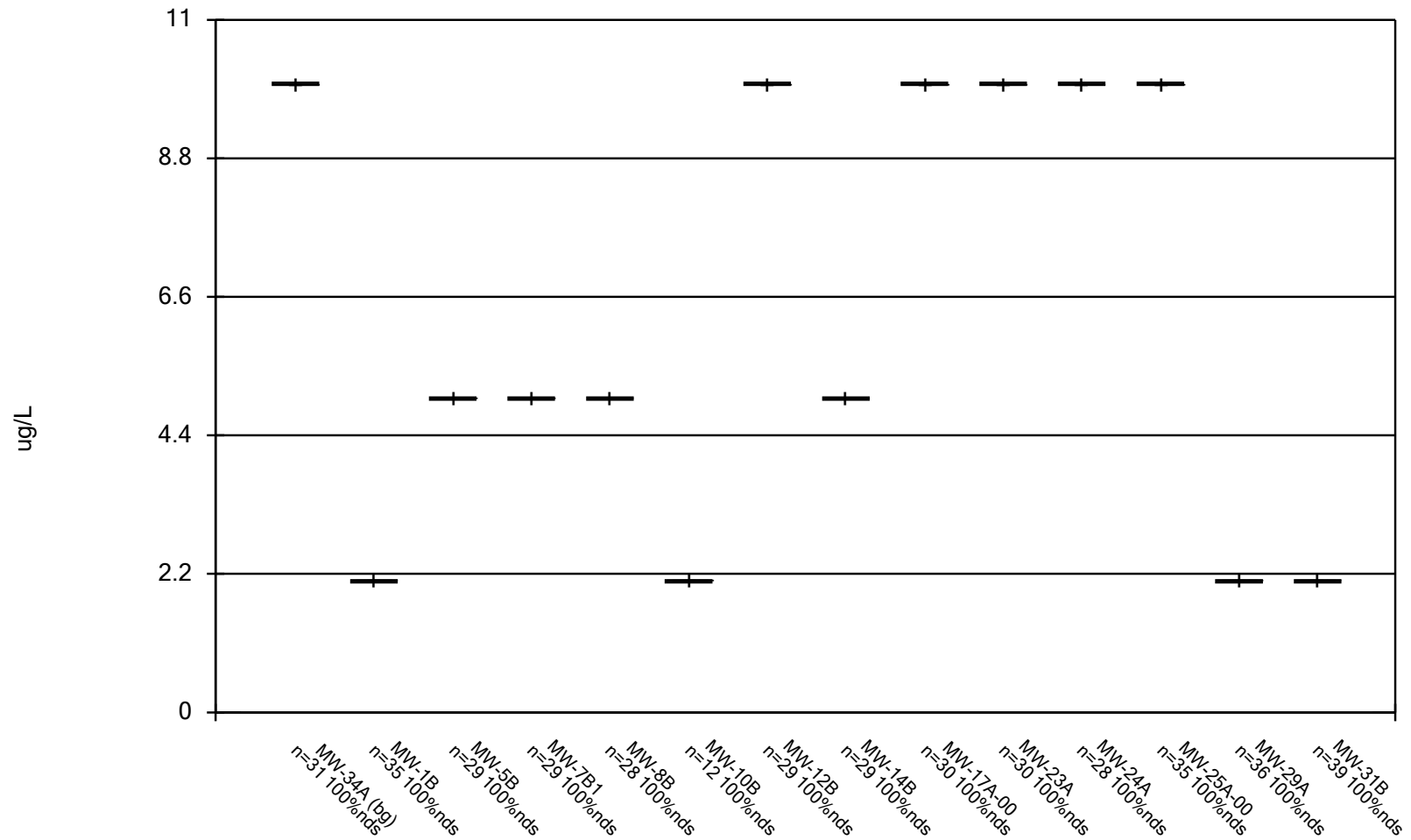
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



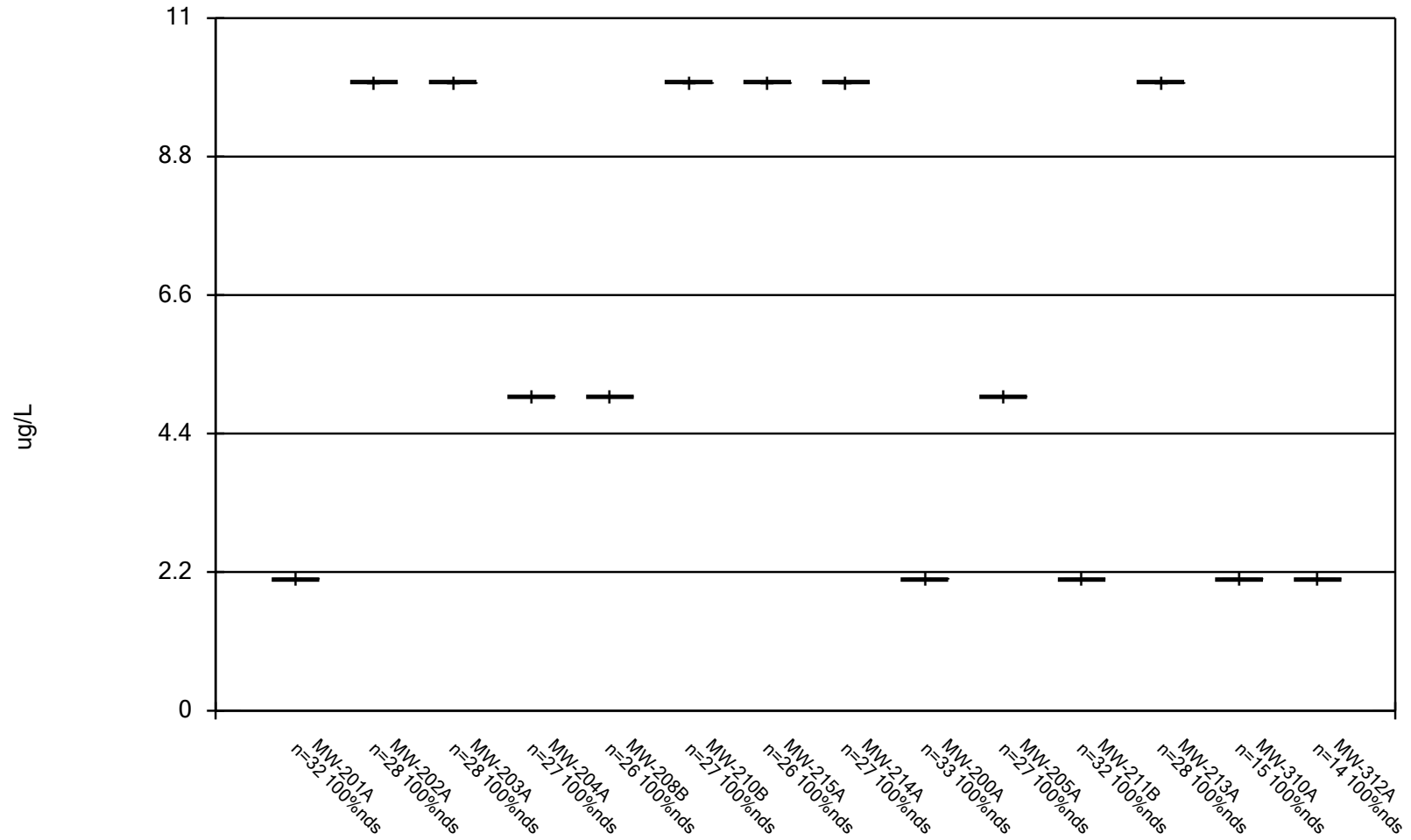
Constituent: 4,4'-DDT Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



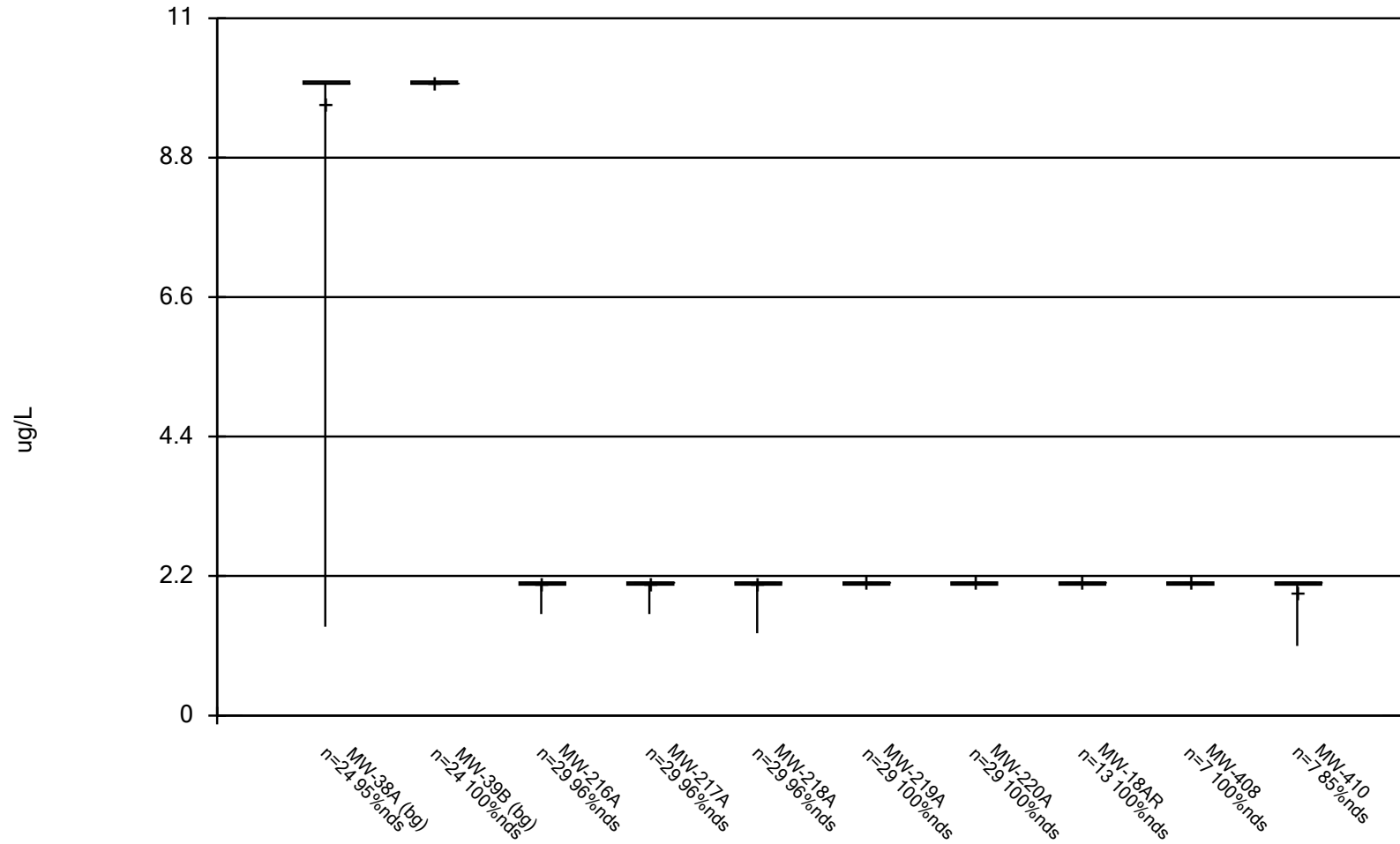
Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



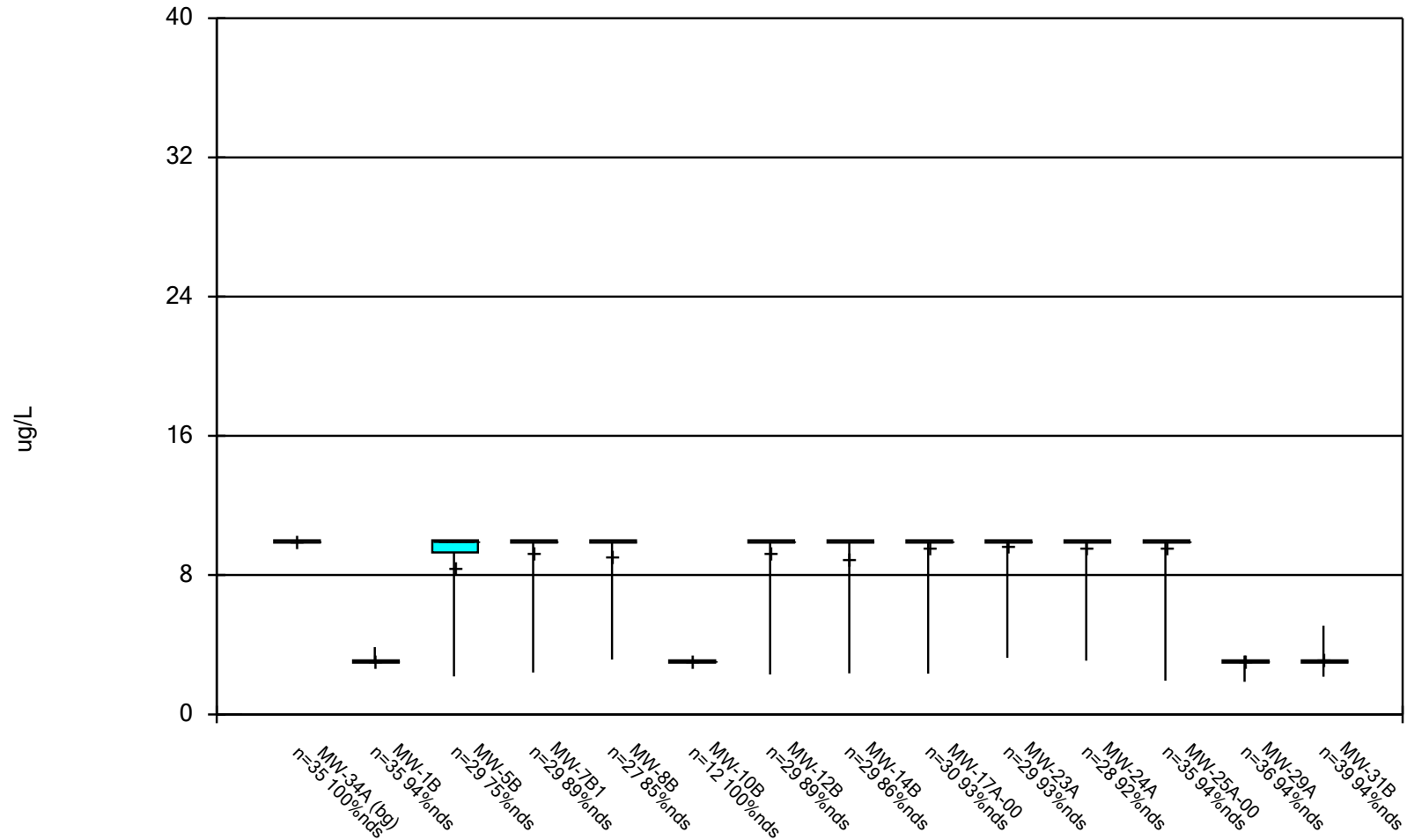
Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

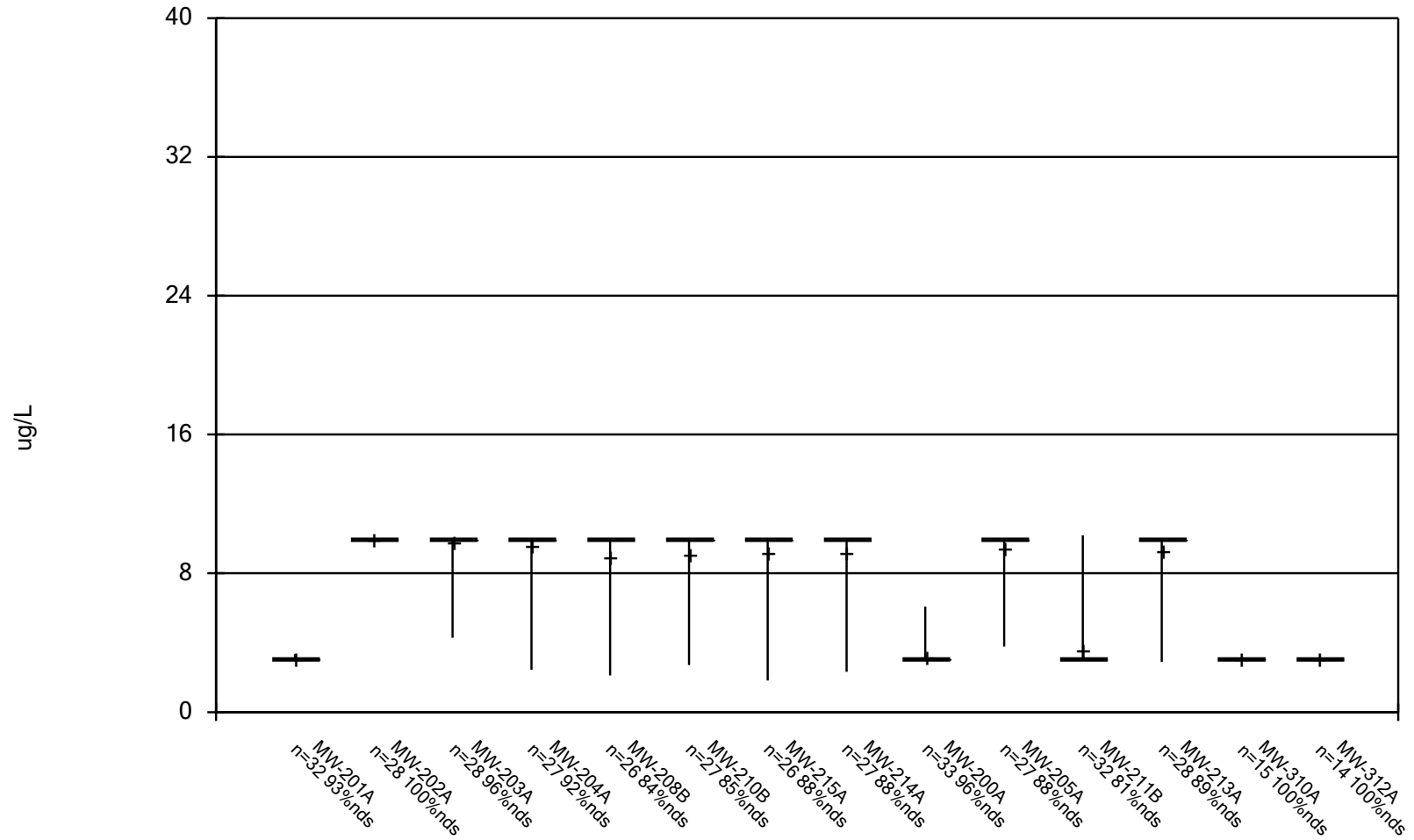
Box & Whiskers Plot



Constituent: Acetone Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

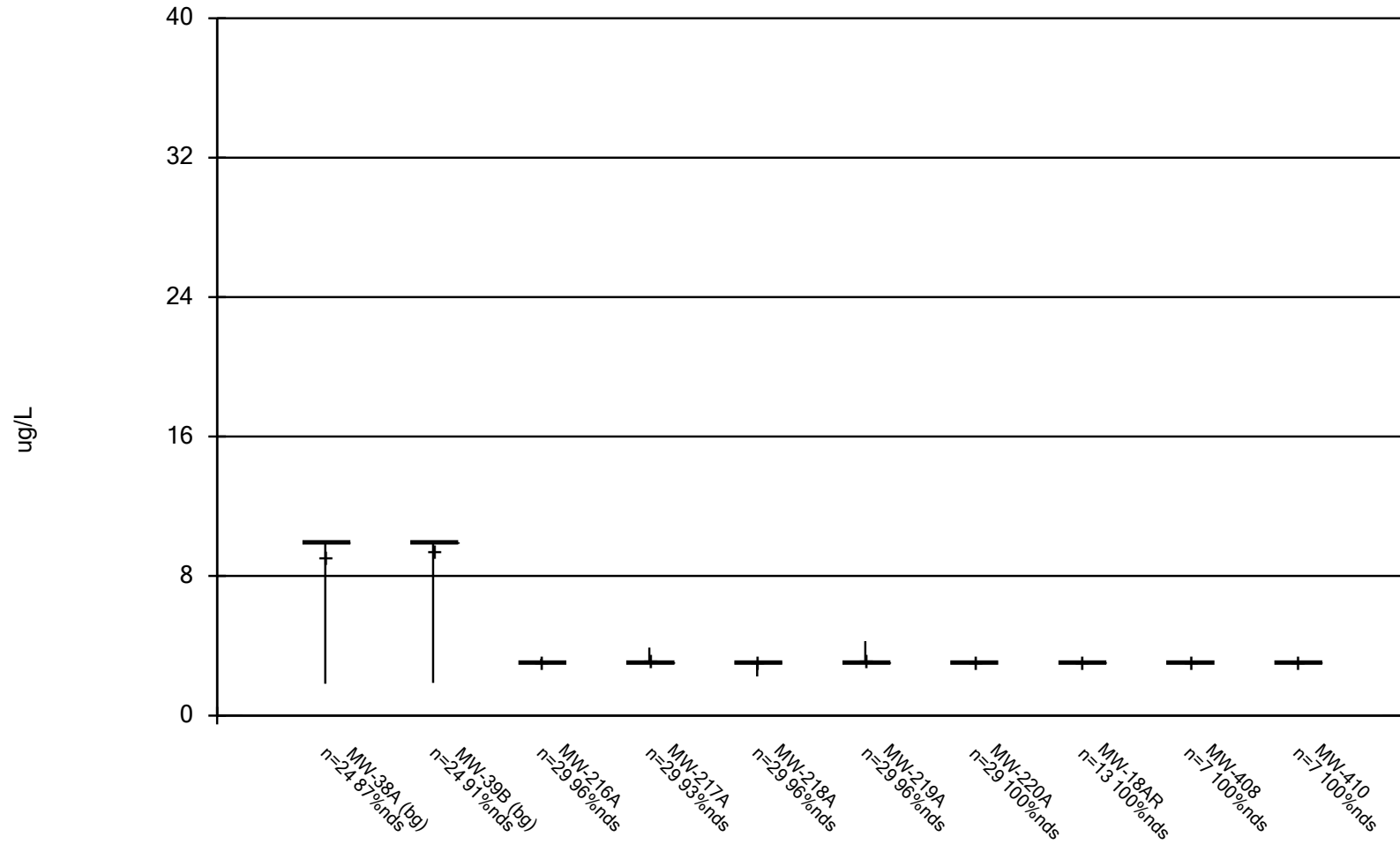
Box & Whiskers Plot



Constituent: Acetone Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

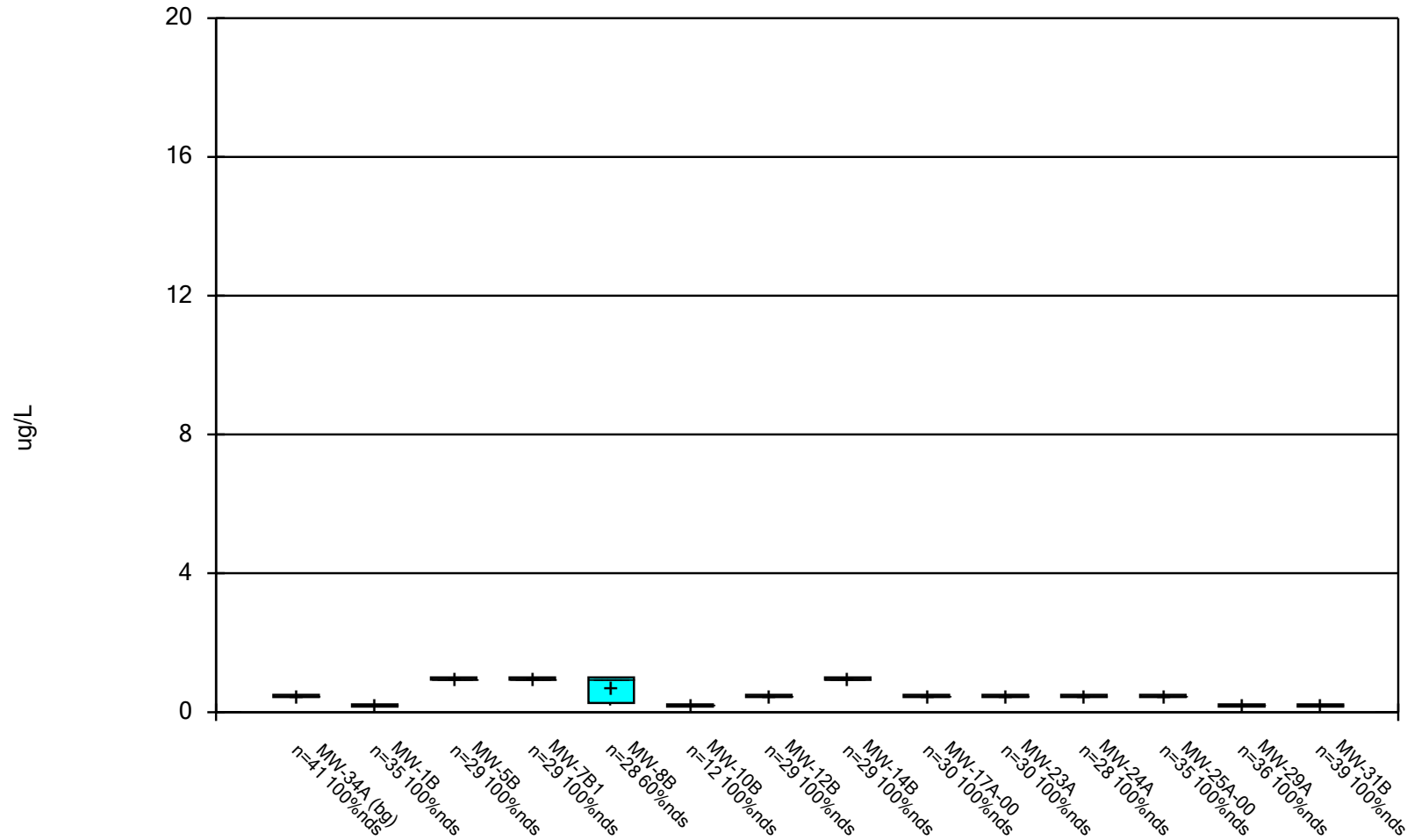
Box & Whiskers Plot



Constituent: Acetone Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

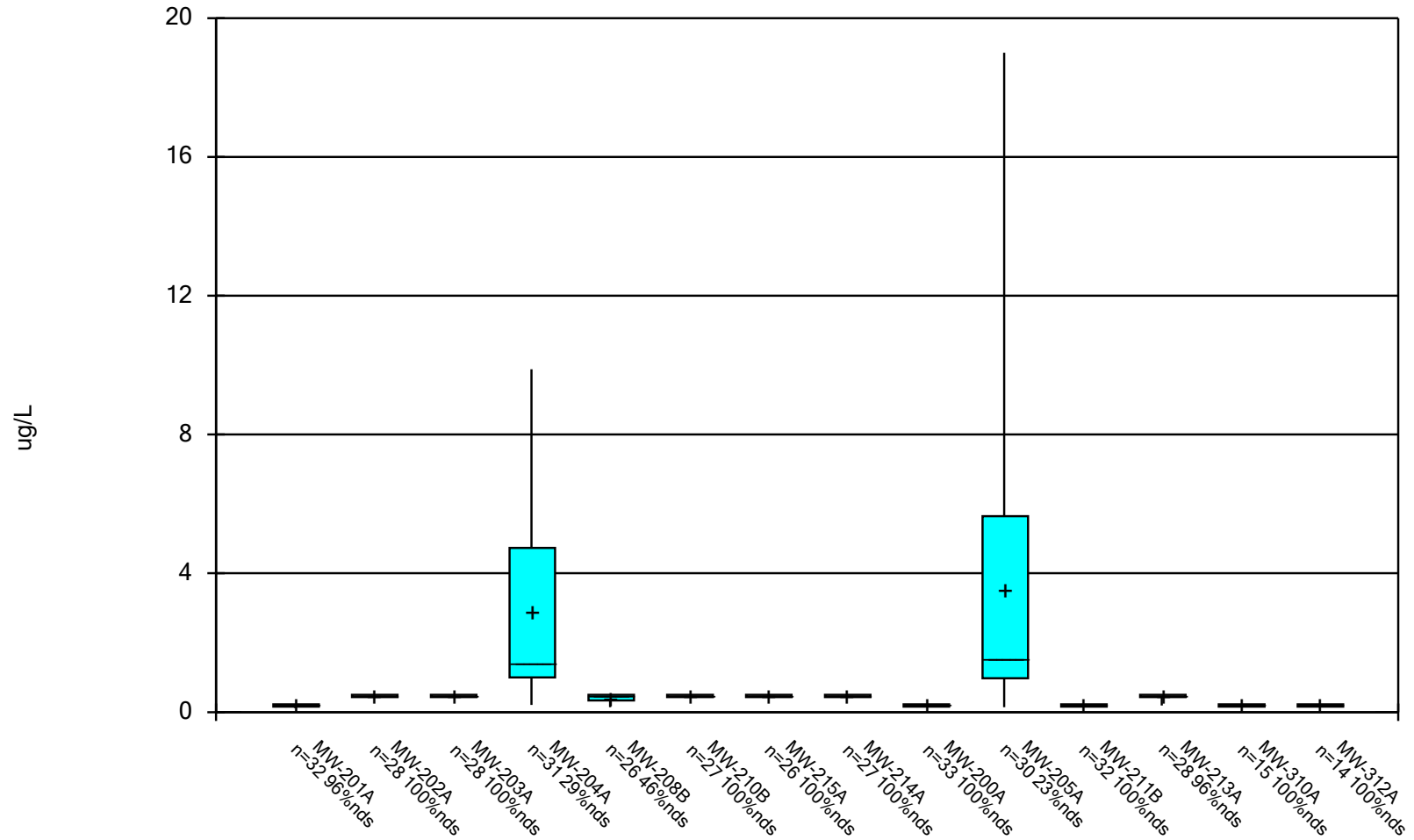
Box & Whiskers Plot



Constituent: Benzene Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

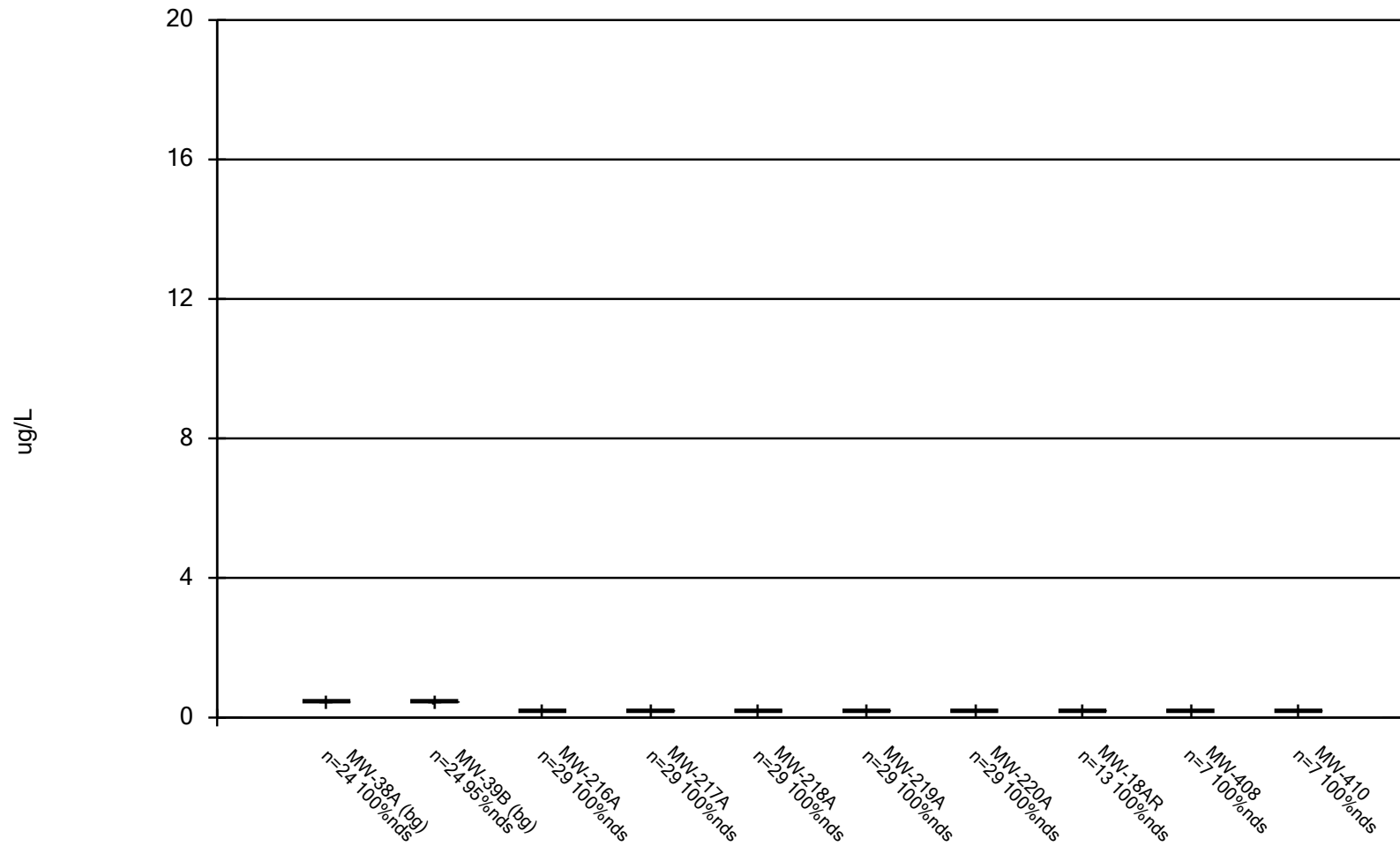
Box & Whiskers Plot



Constituent: Benzene Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

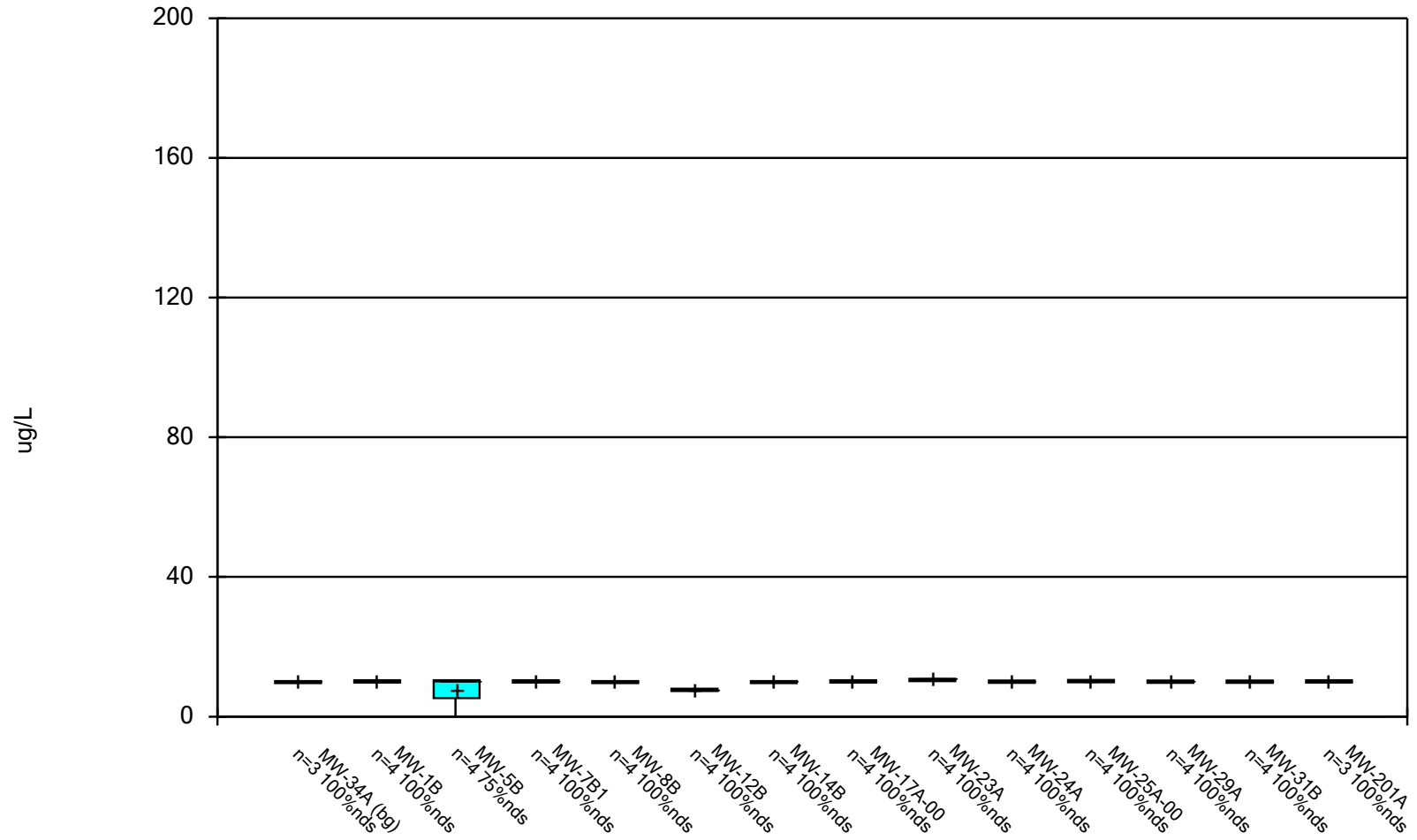
Box & Whiskers Plot



Constituent: Benzene Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

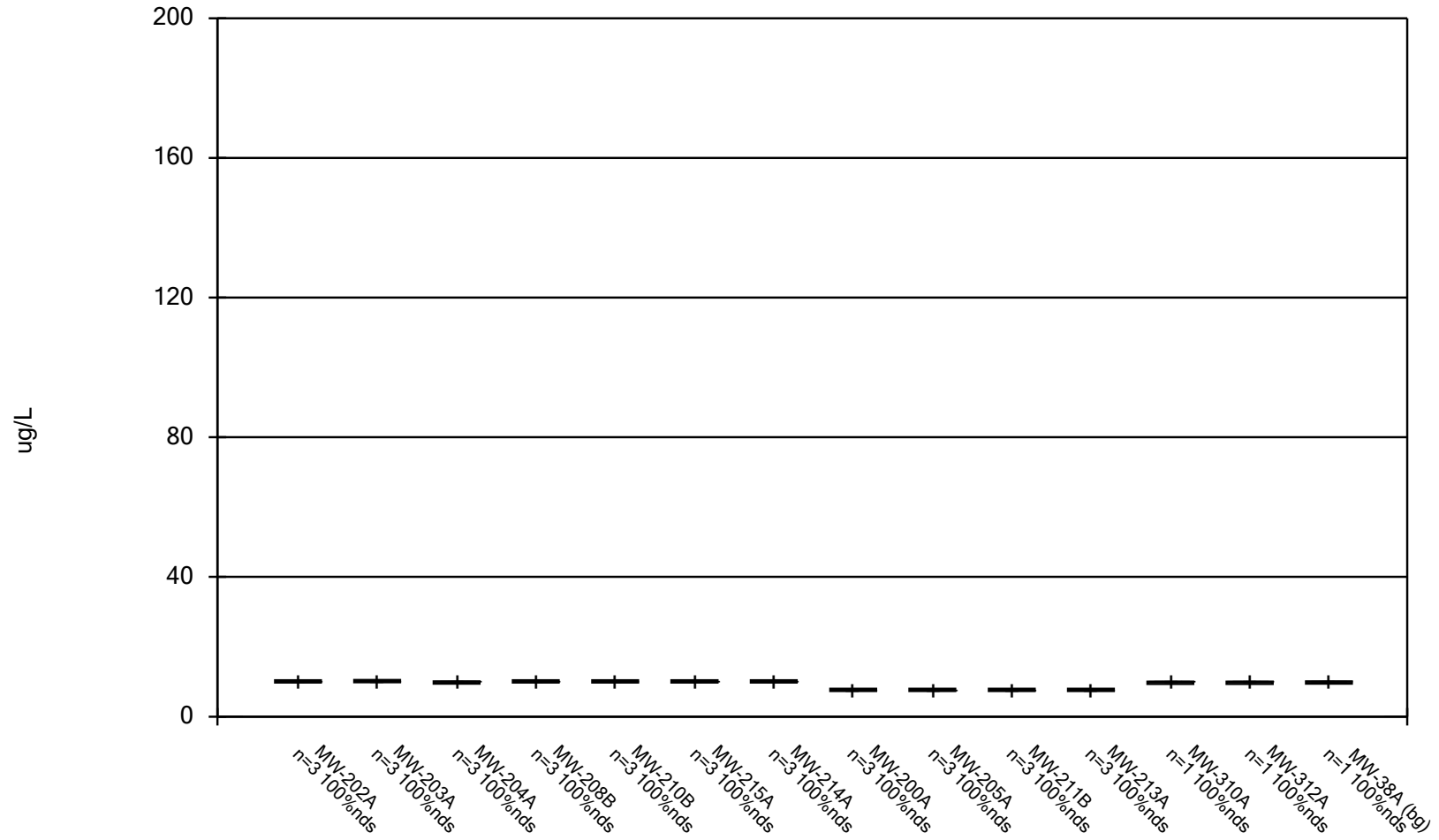
Box & Whiskers Plot



Constituent: Benzyl alcohol Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

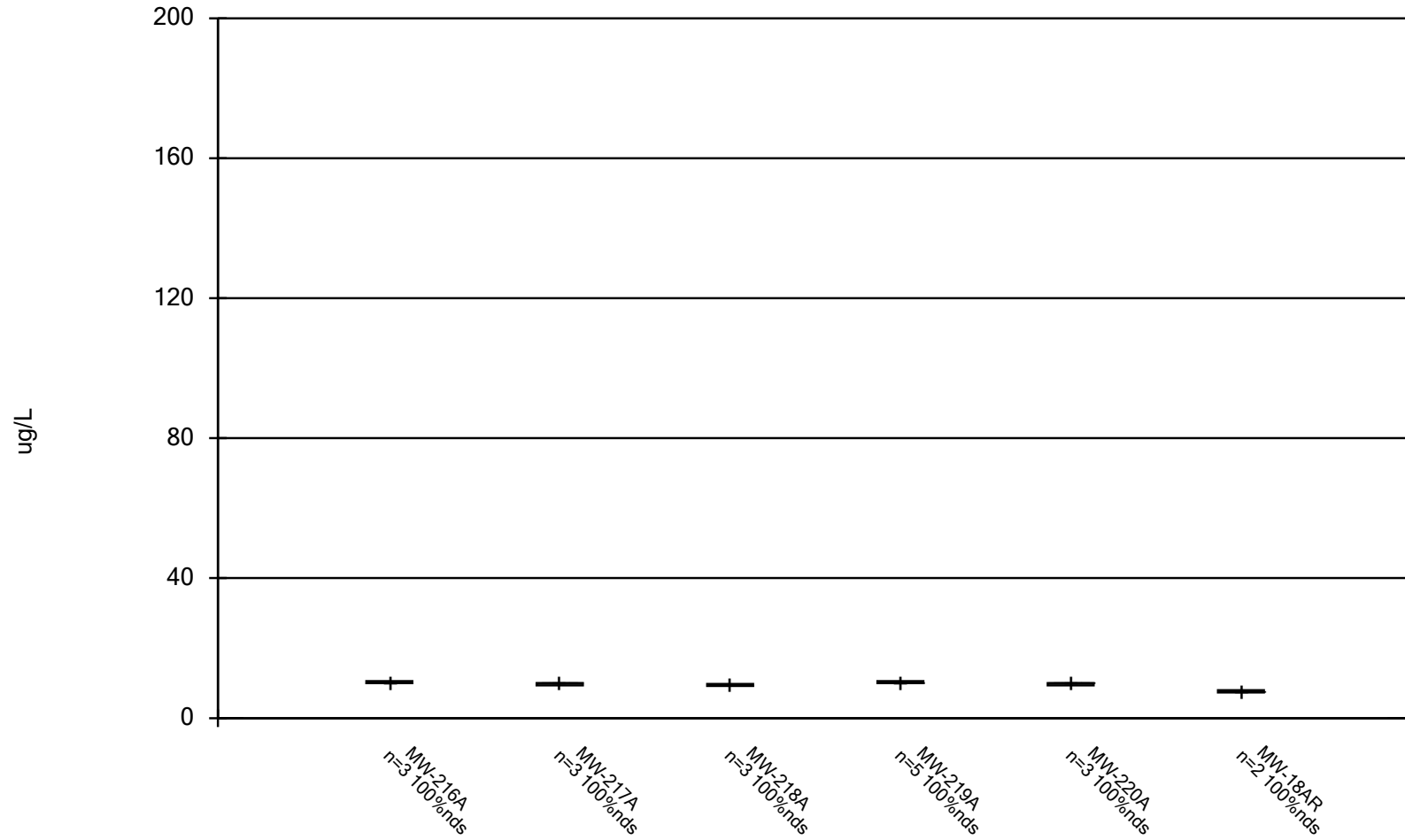
Box & Whiskers Plot



Constituent: Benzyl alcohol Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

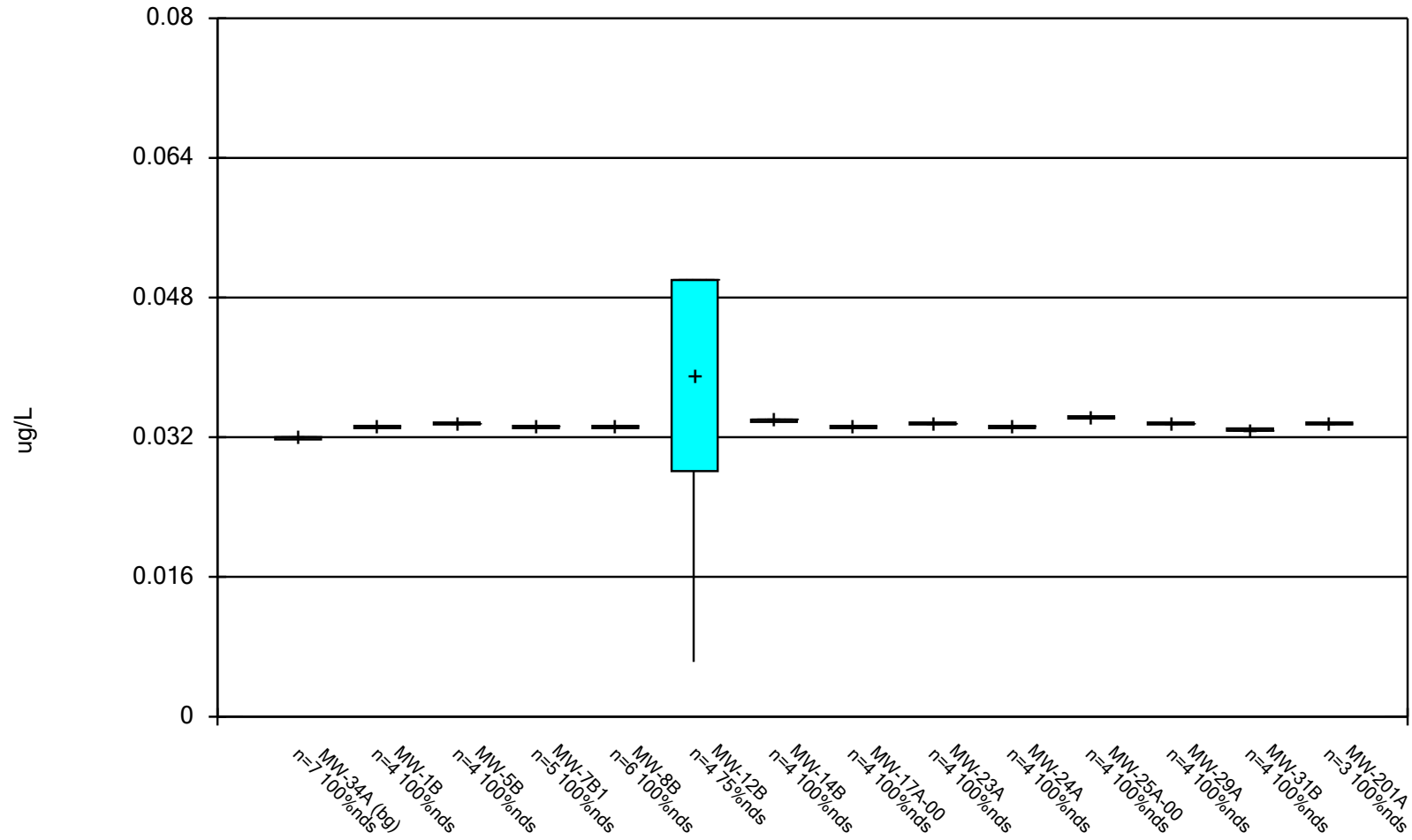
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Benzyl alcohol Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

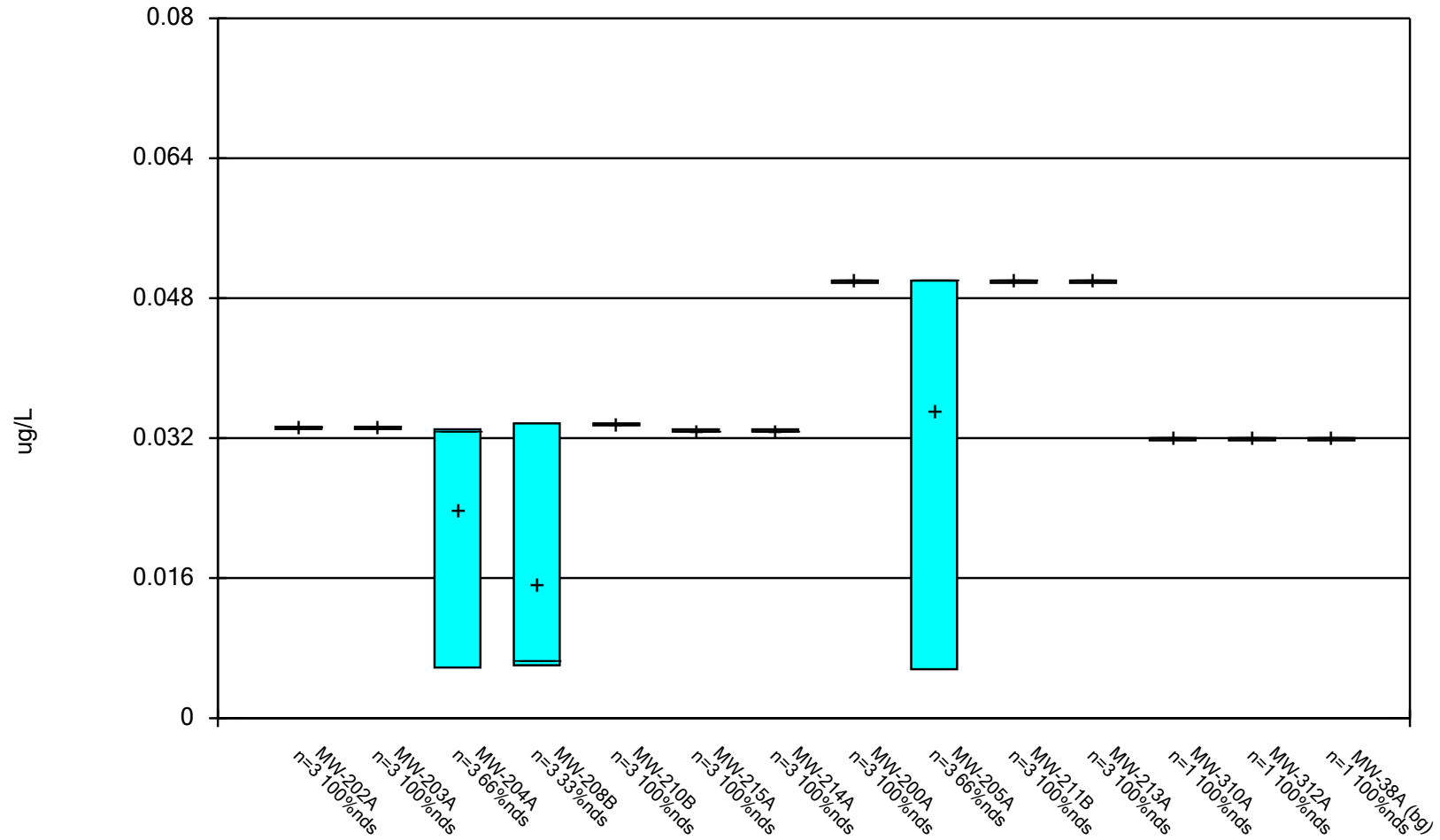
Box & Whiskers Plot



Constituent: Beta-BHC Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

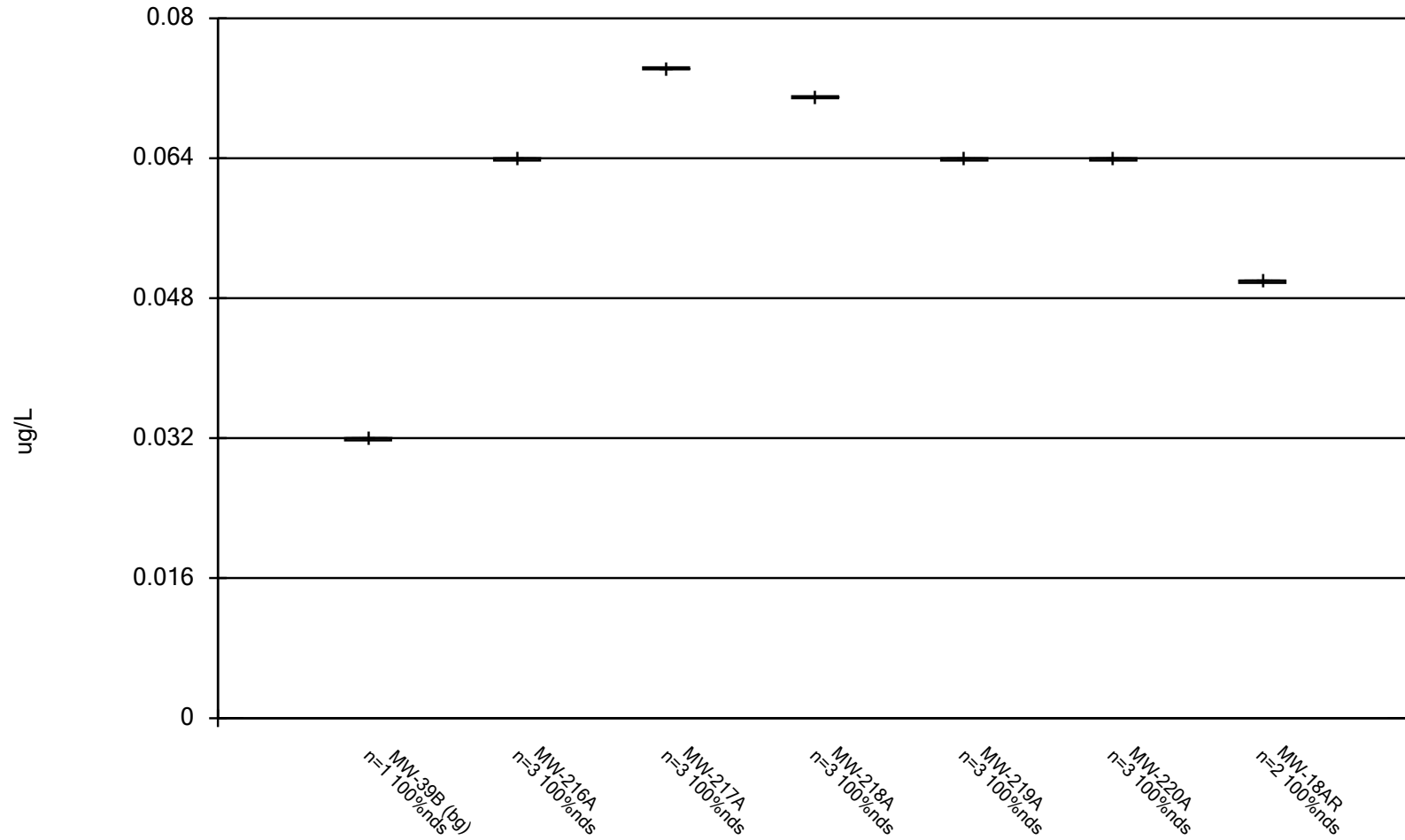
Box & Whiskers Plot



Constituent: Beta-BHC Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

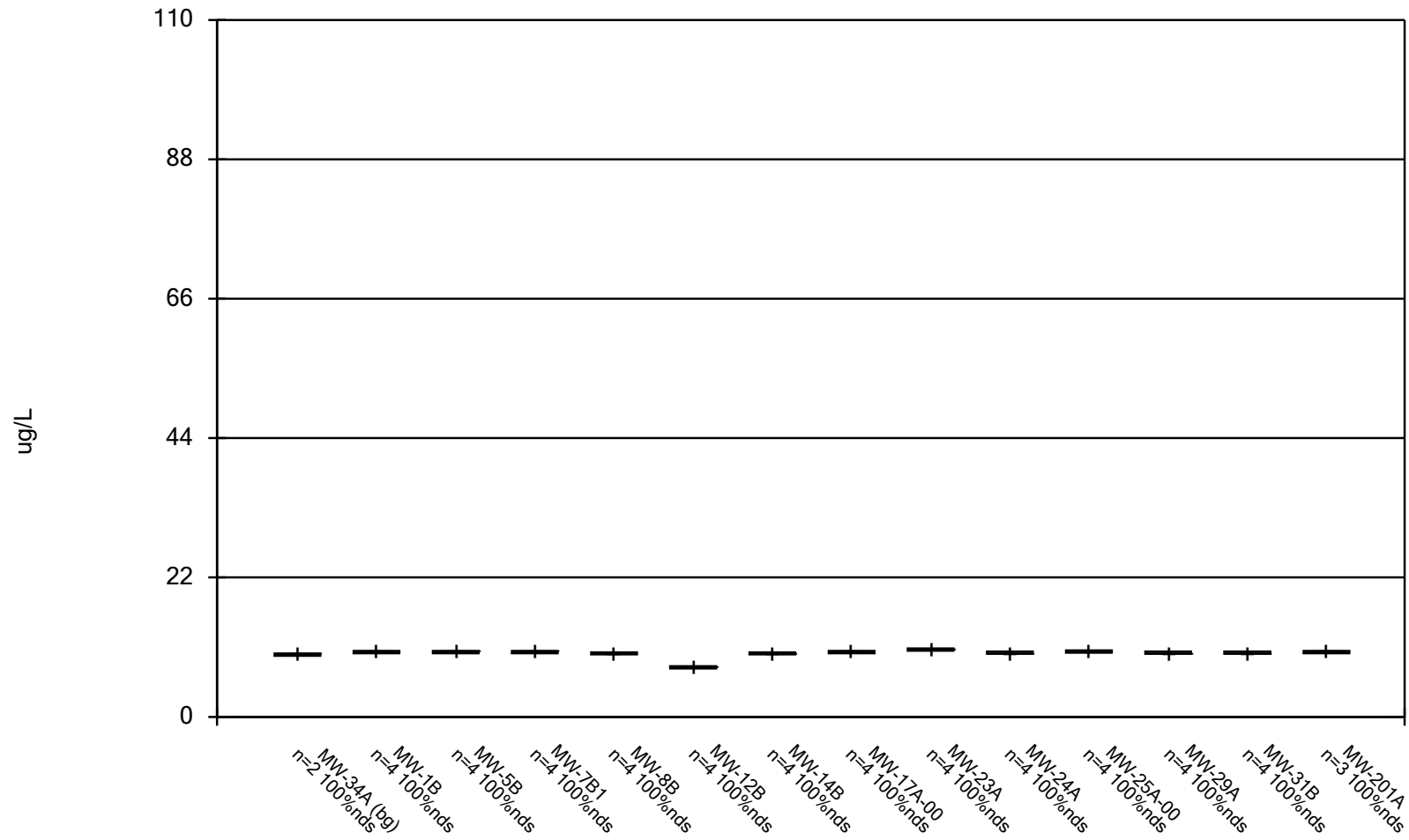
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



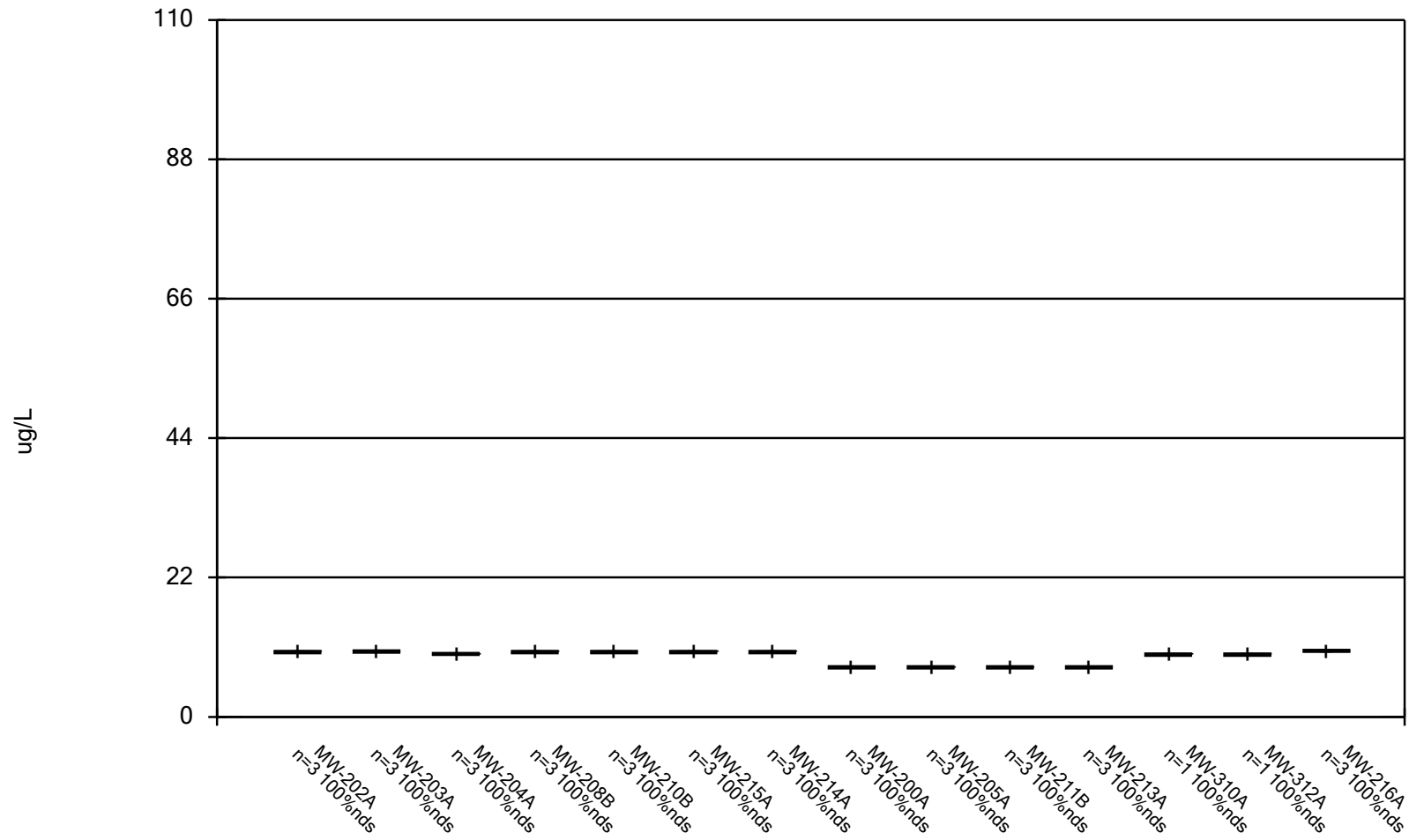
Constituent: Beta-BHC Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



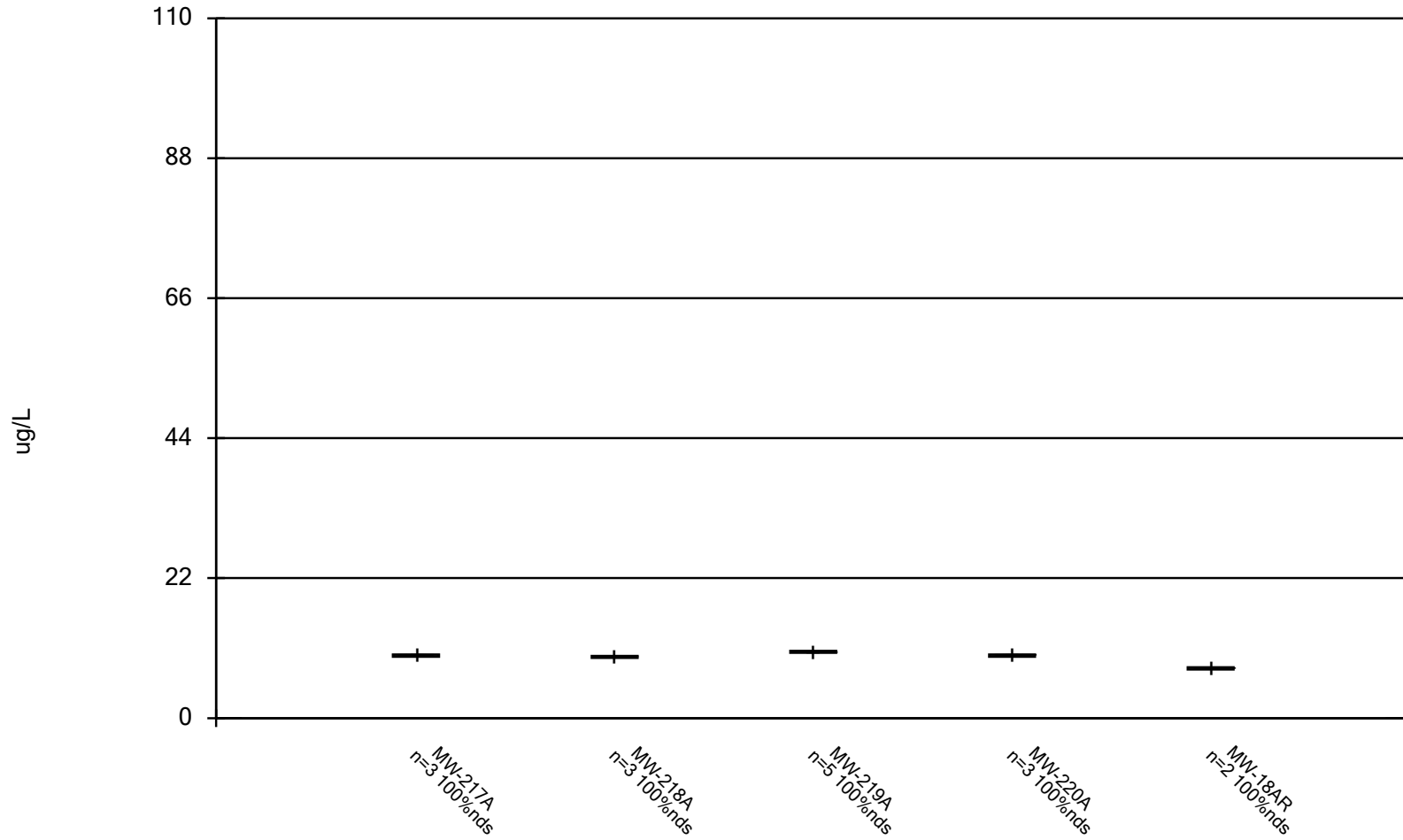
Constituent: Bis[2-chloroethoxy]methane Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



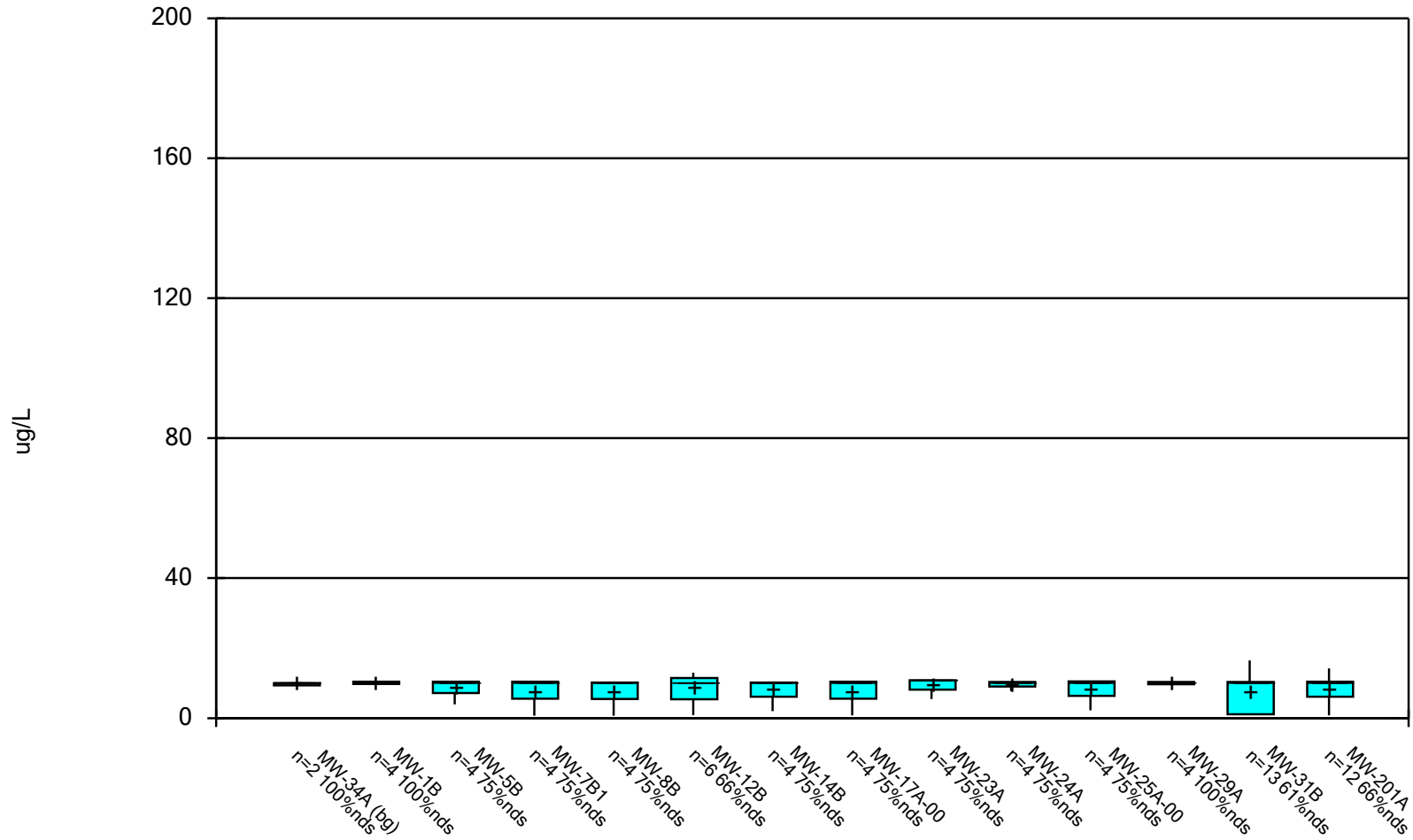
Constituent: Bis[2-chloroethoxy]methane Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Bis[2-chloroethoxy]methane Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

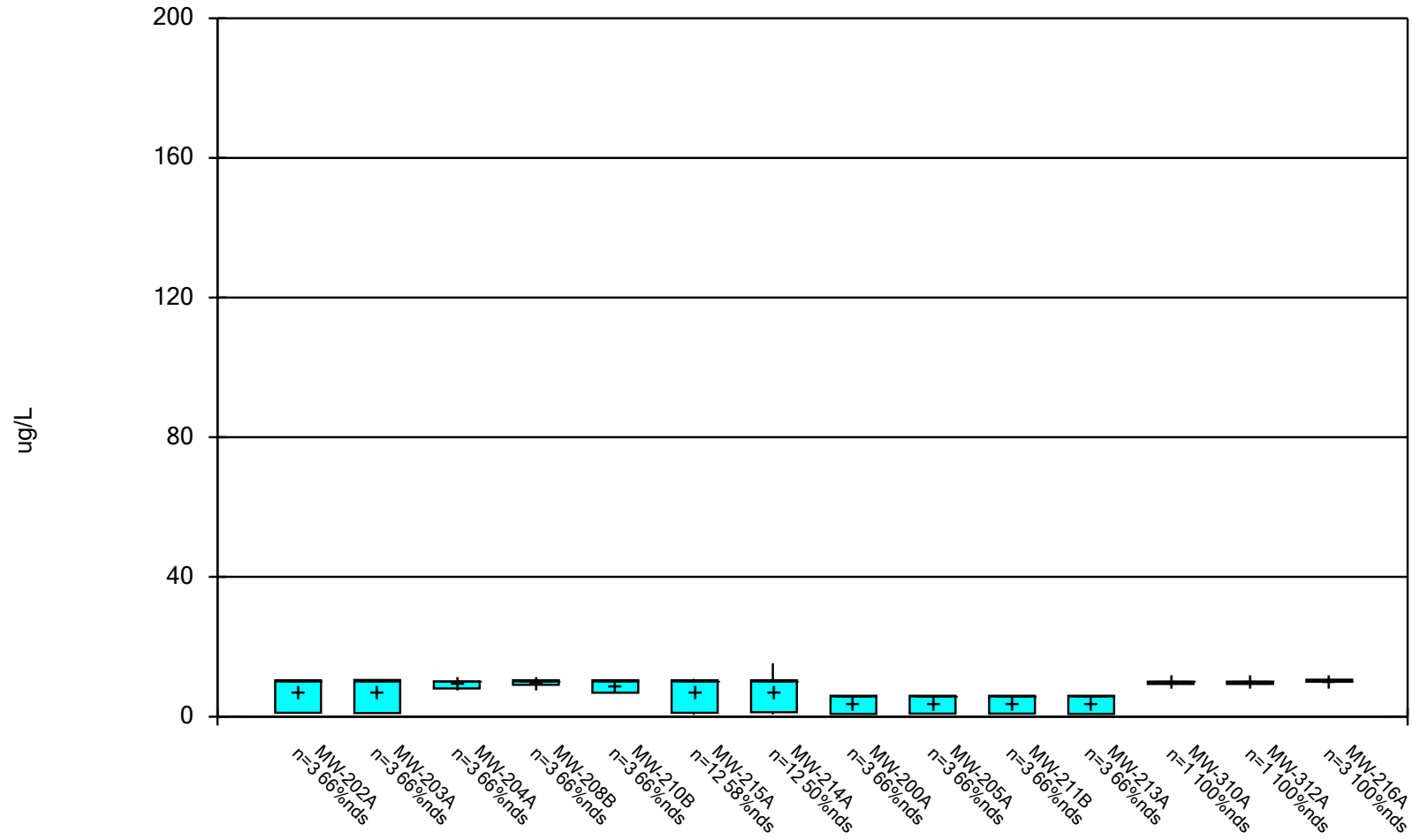
Box & Whiskers Plot



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

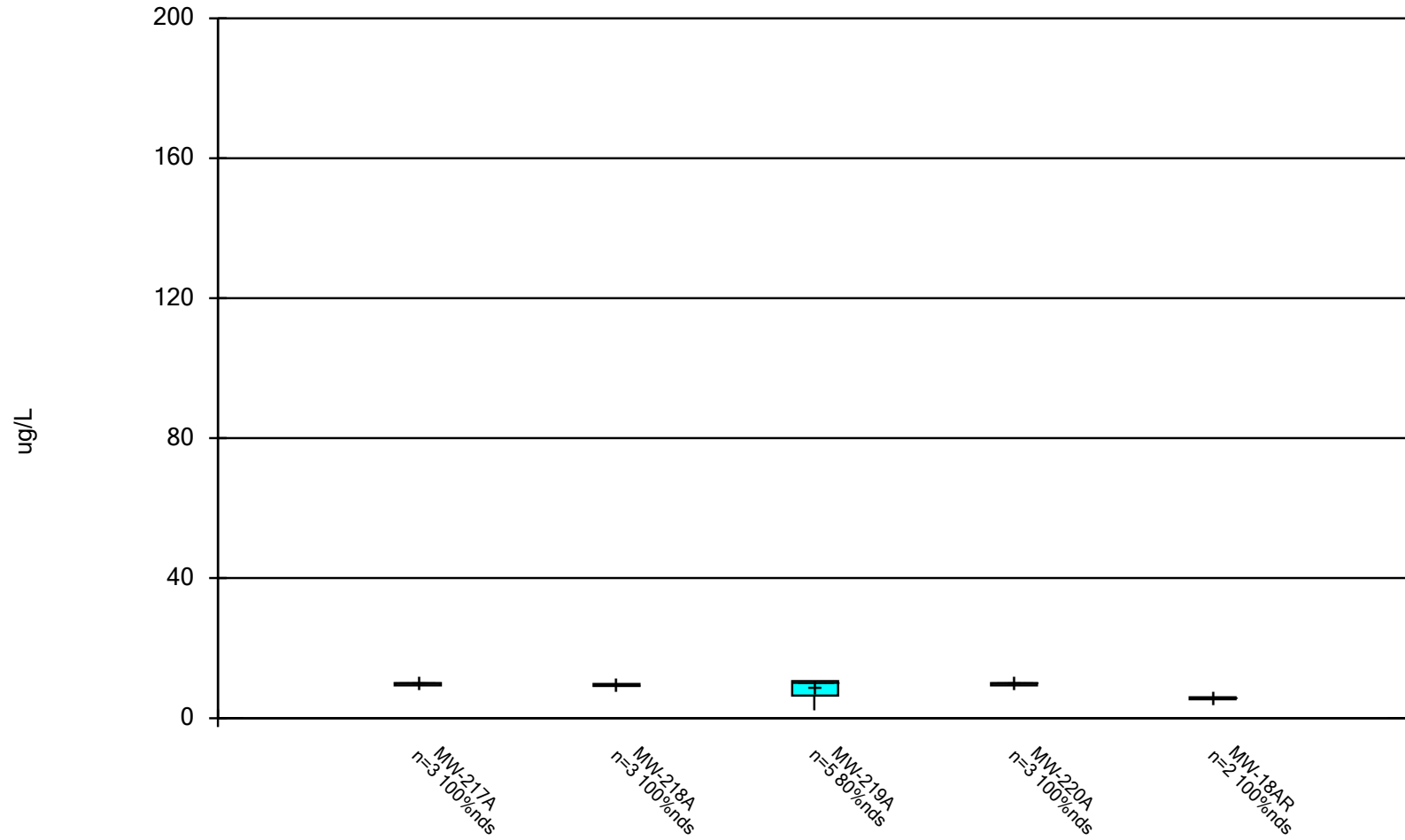
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



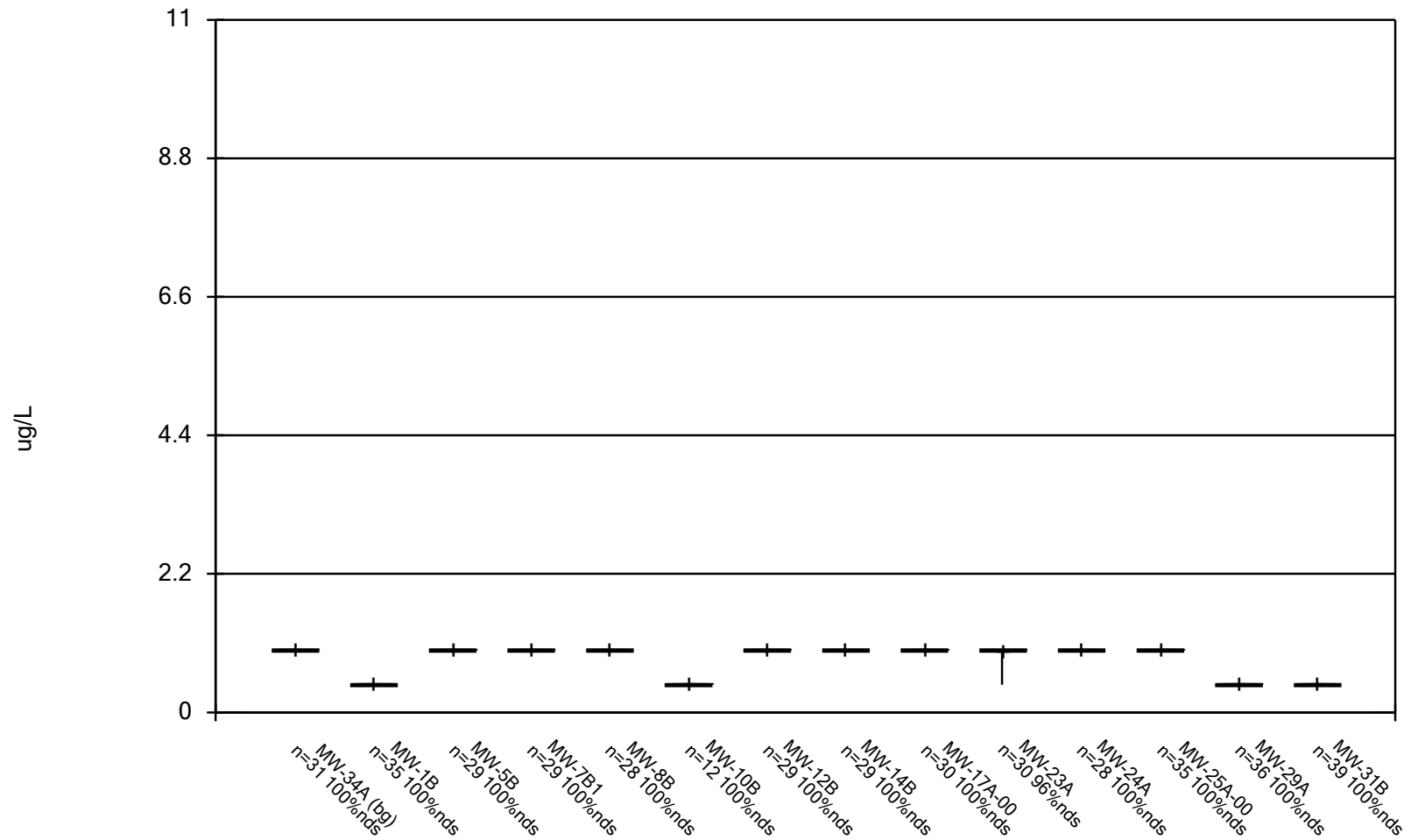
Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

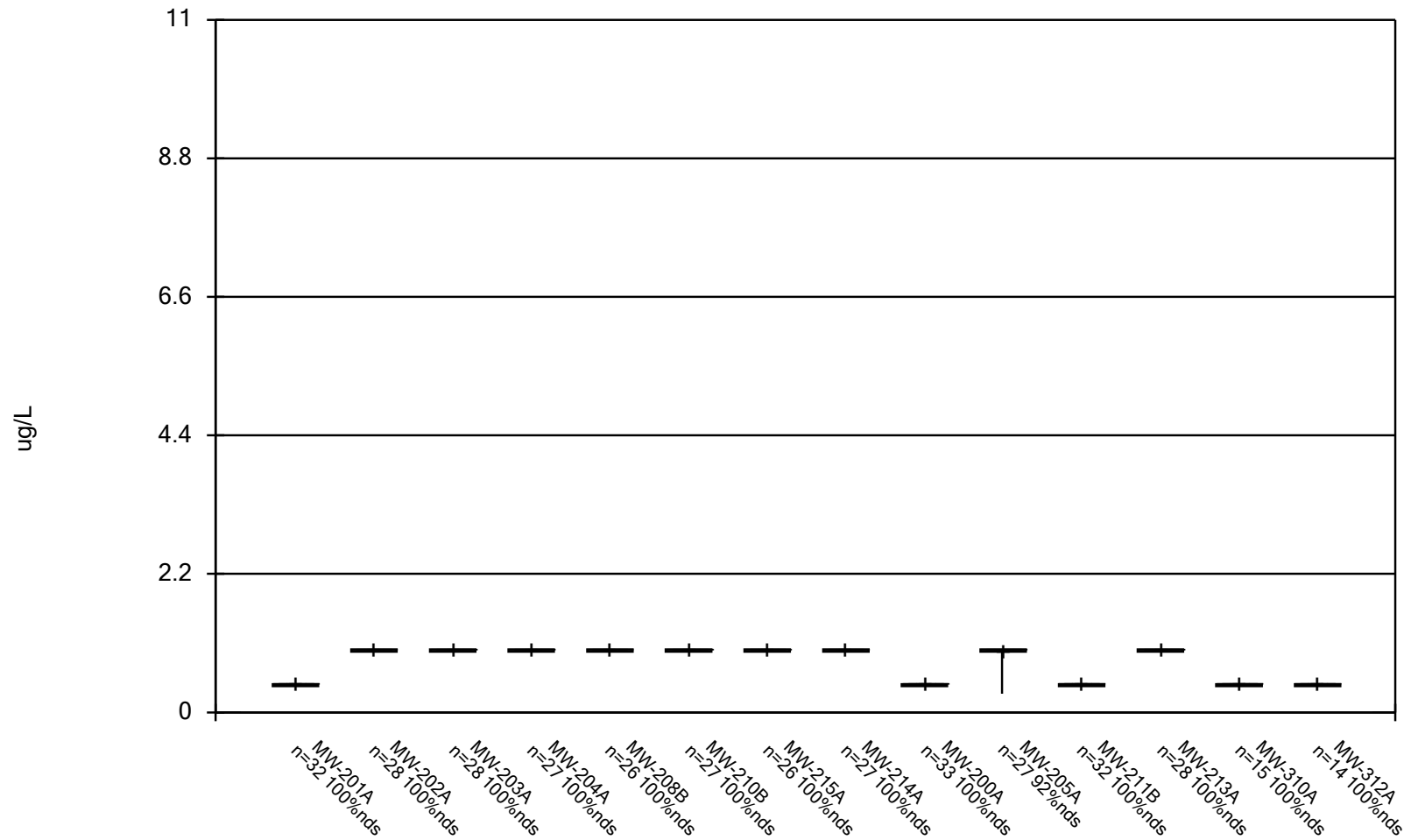
Box & Whiskers Plot



Constituent: Carbon Disulfide Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

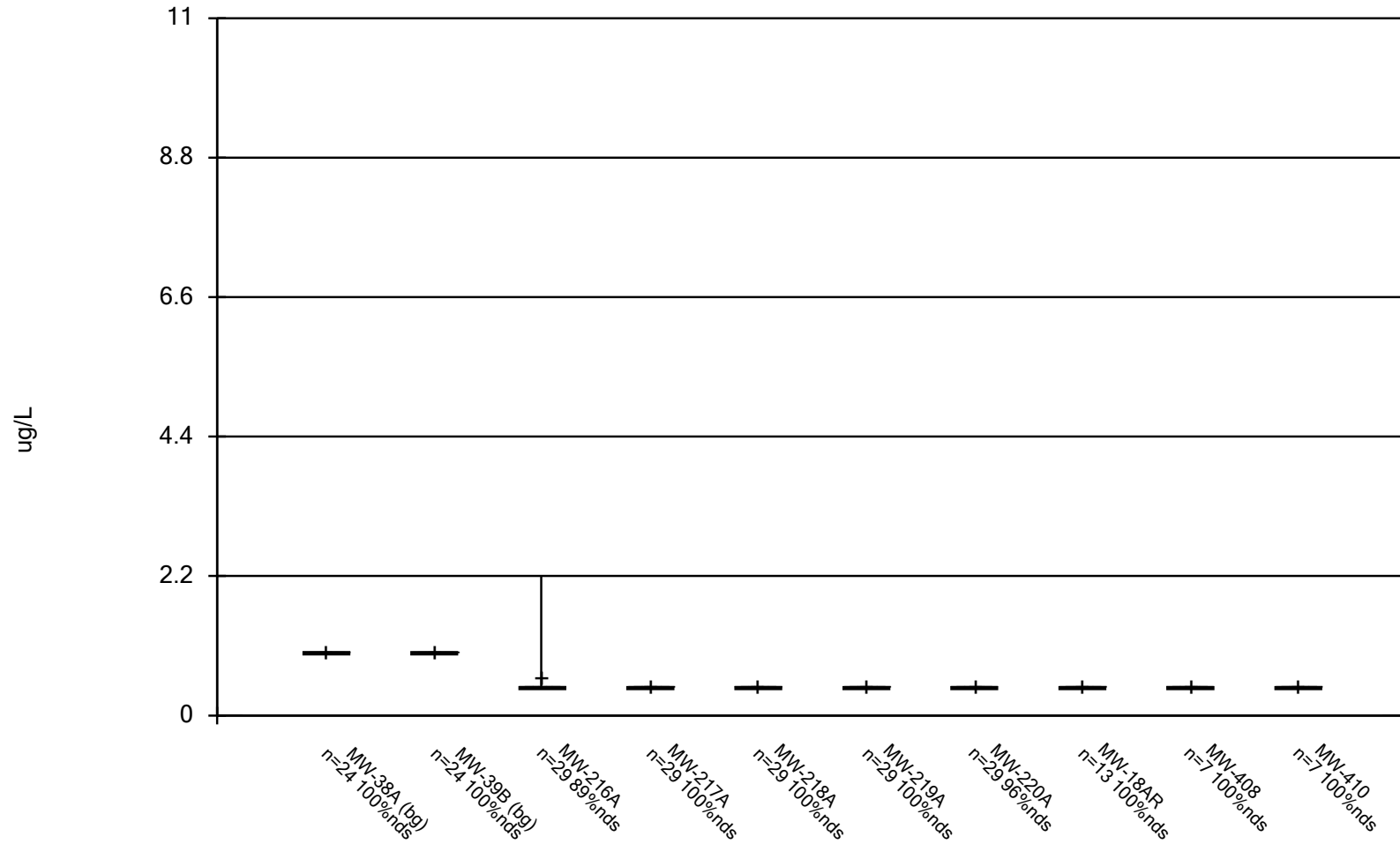
Box & Whiskers Plot



Constituent: Carbon Disulfide Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

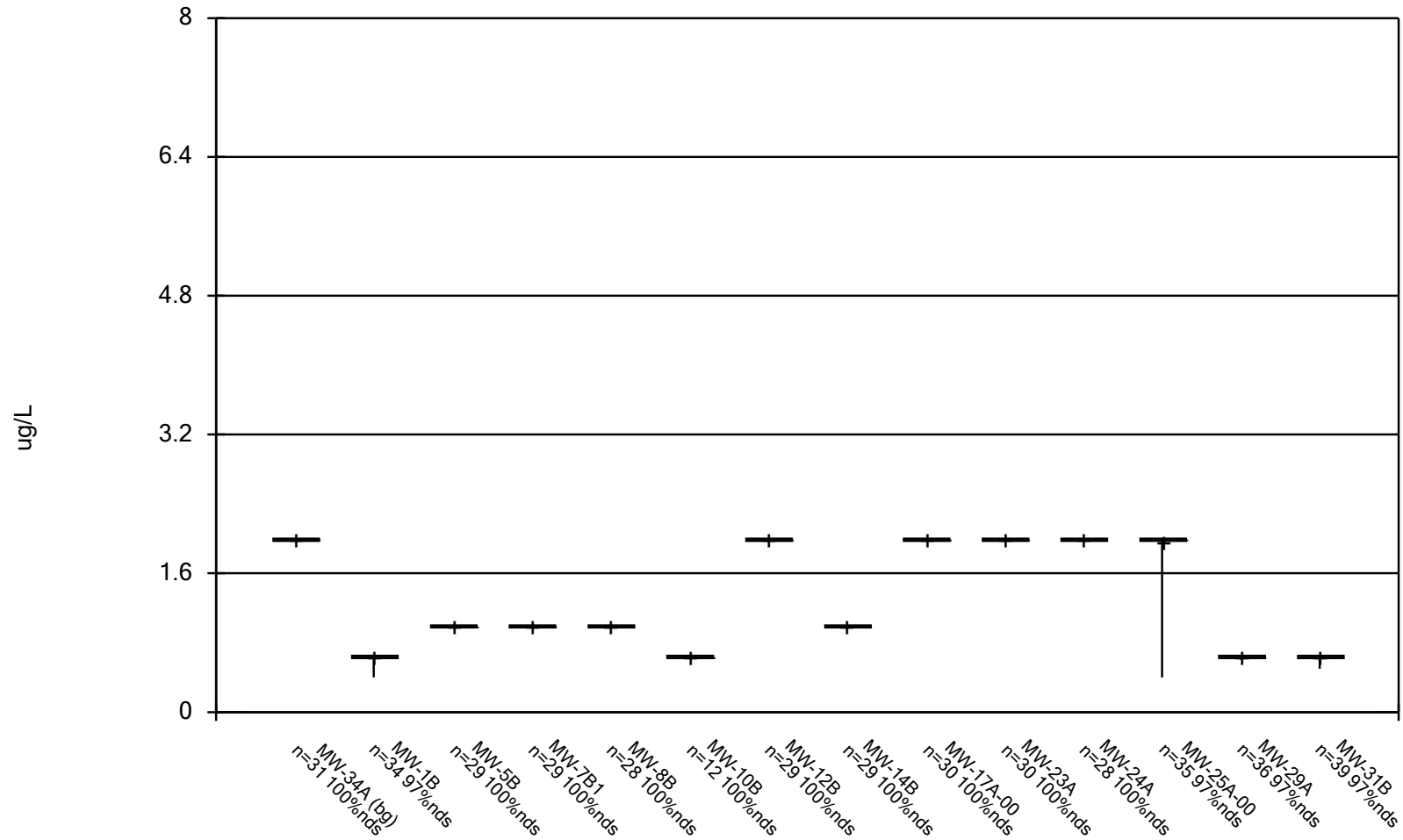
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



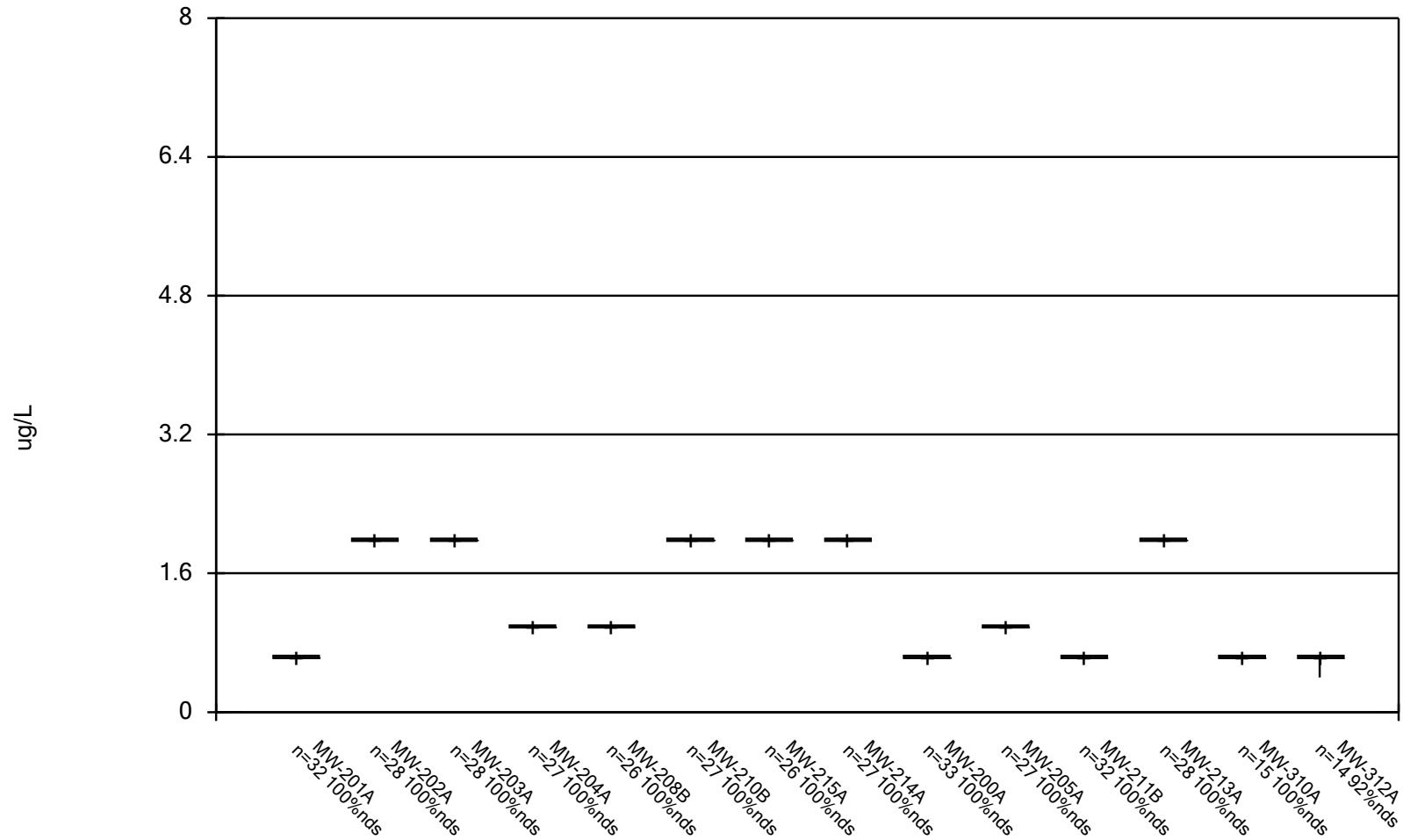
Constituent: Carbon Disulfide Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



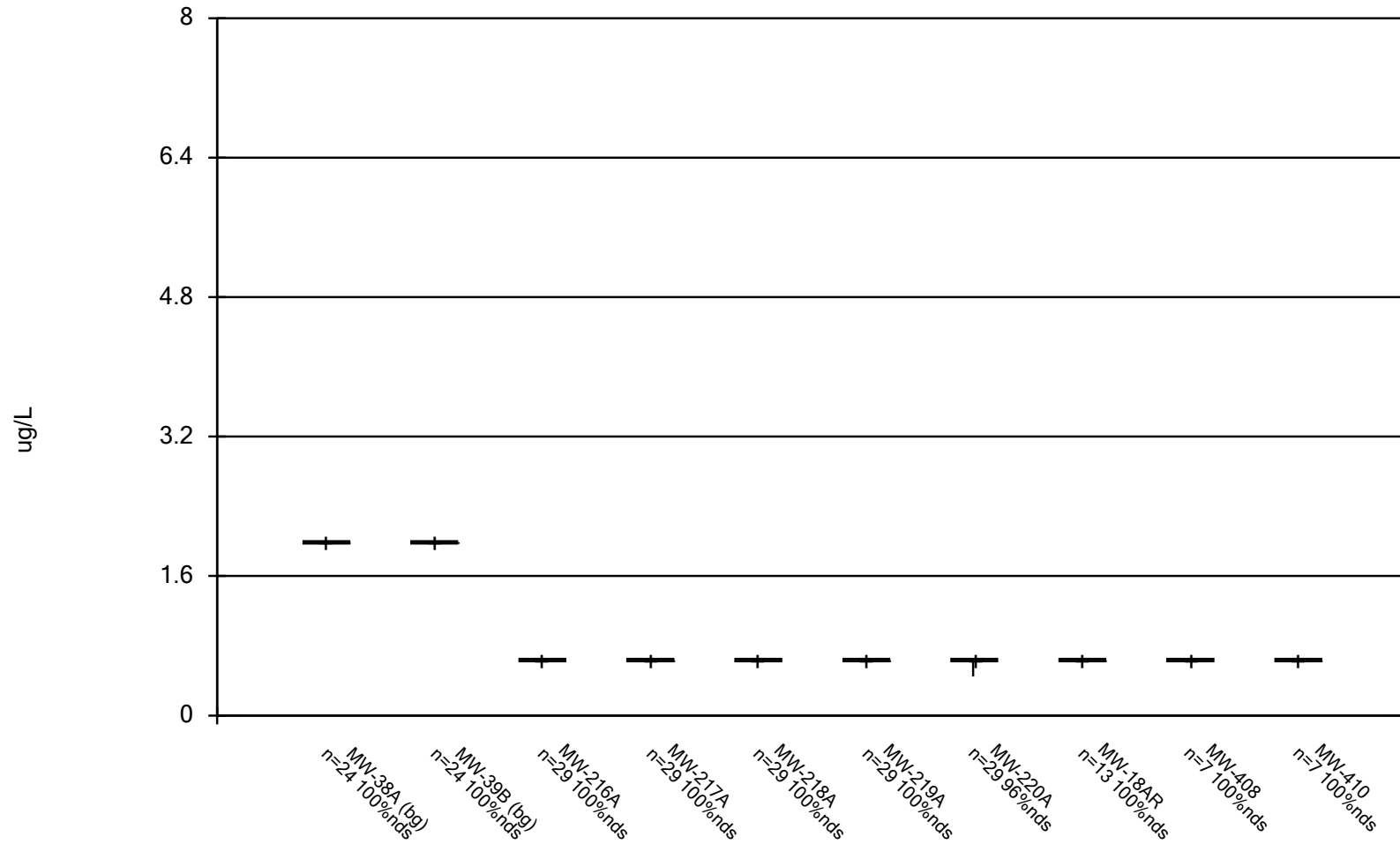
Constituent: Carbon Tetrachloride Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



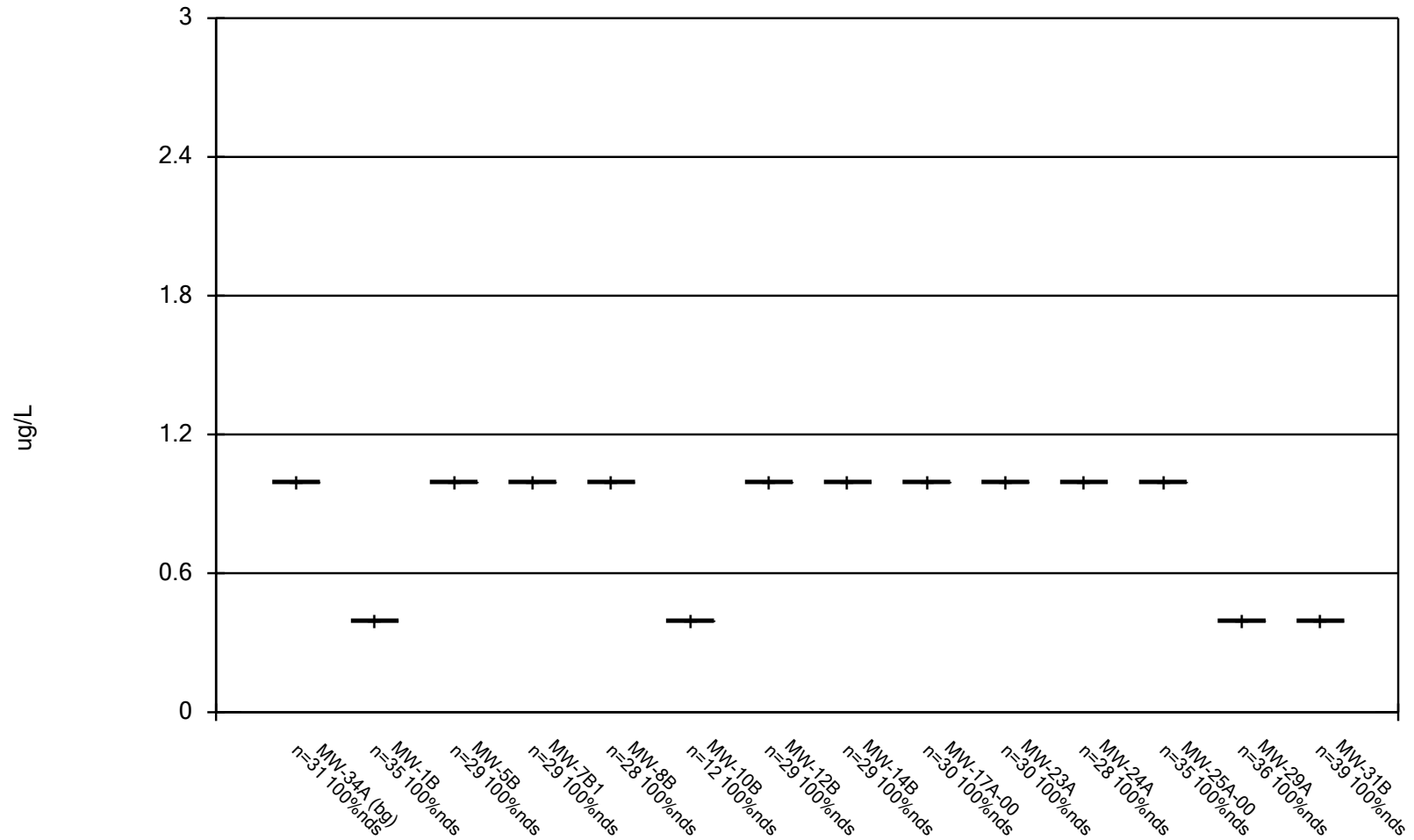
Constituent: Carbon Tetrachloride Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Carbon Tetrachloride Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

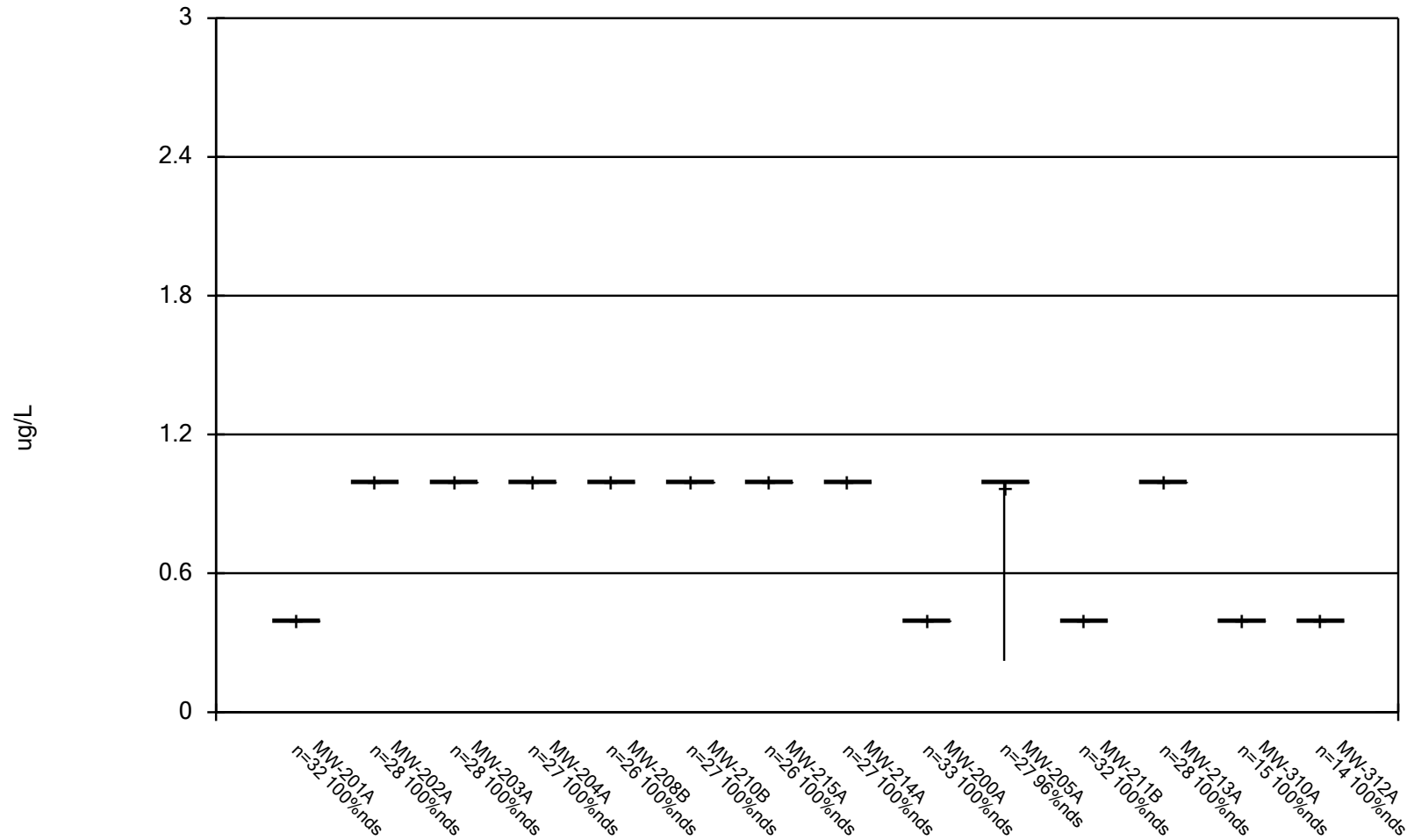
Box & Whiskers Plot



Constituent: Chlorobenzene Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

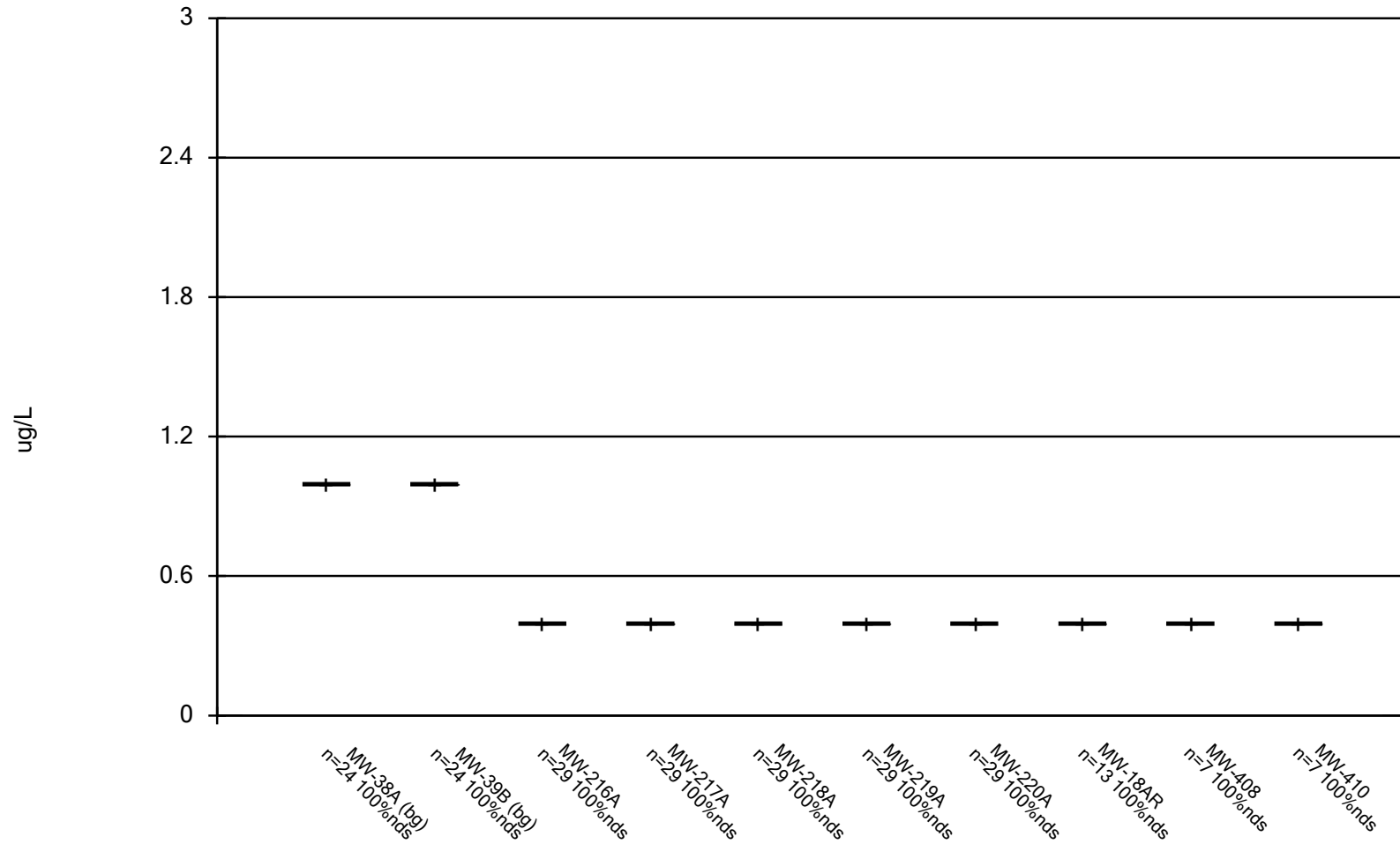
Box & Whiskers Plot



Constituent: Chlorobenzene Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

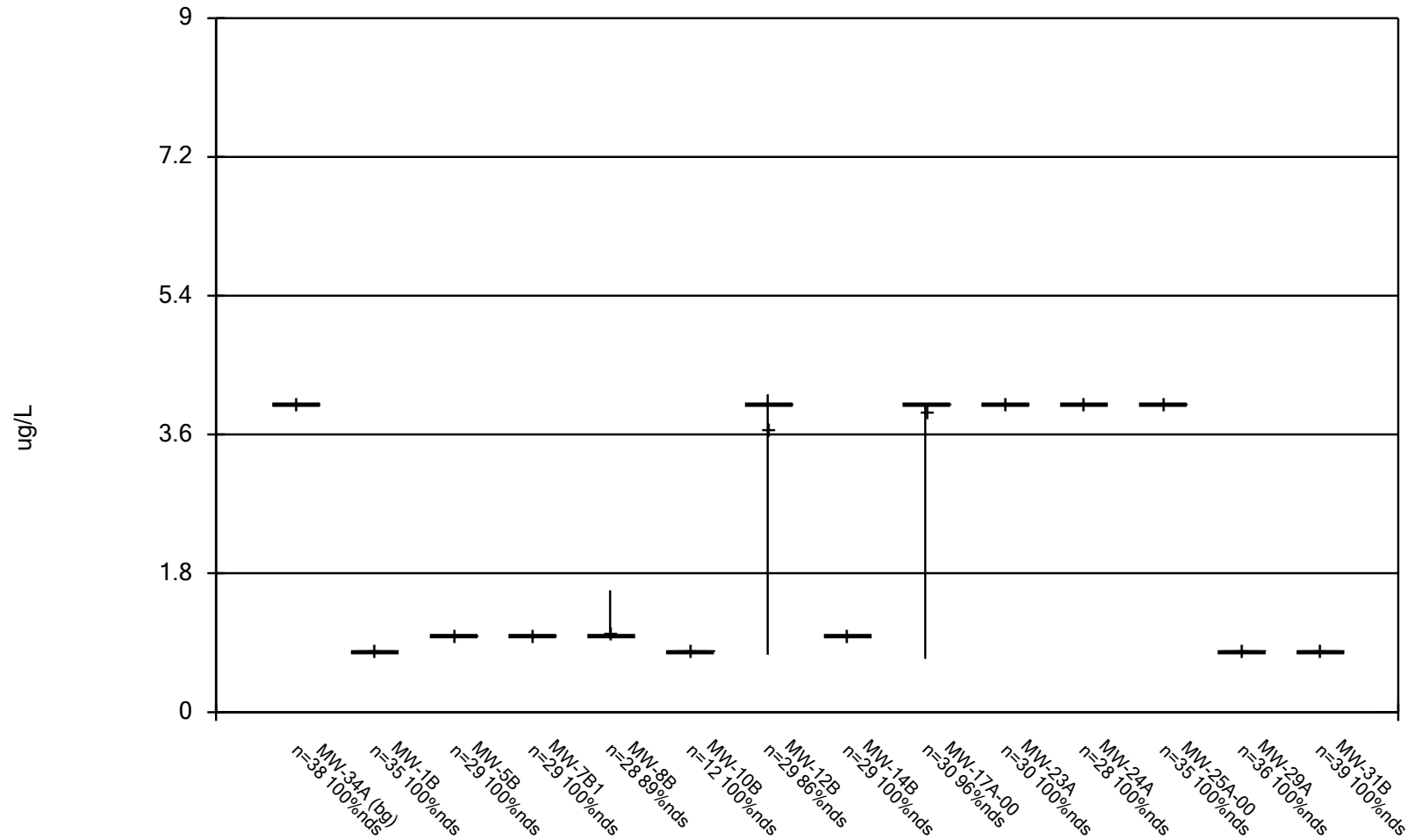
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Chlorobenzene Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

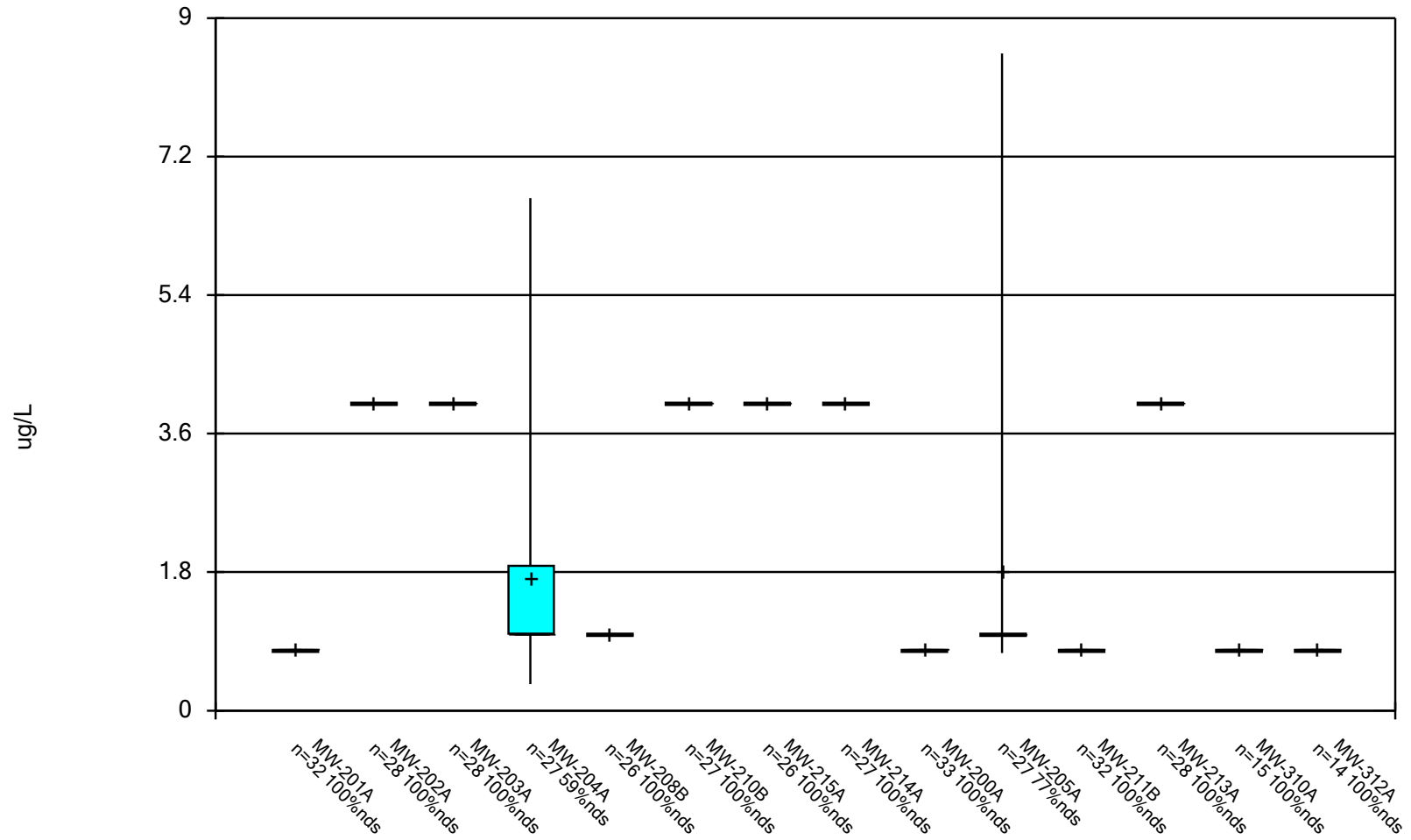
Box & Whiskers Plot



Constituent: Chloroethane Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

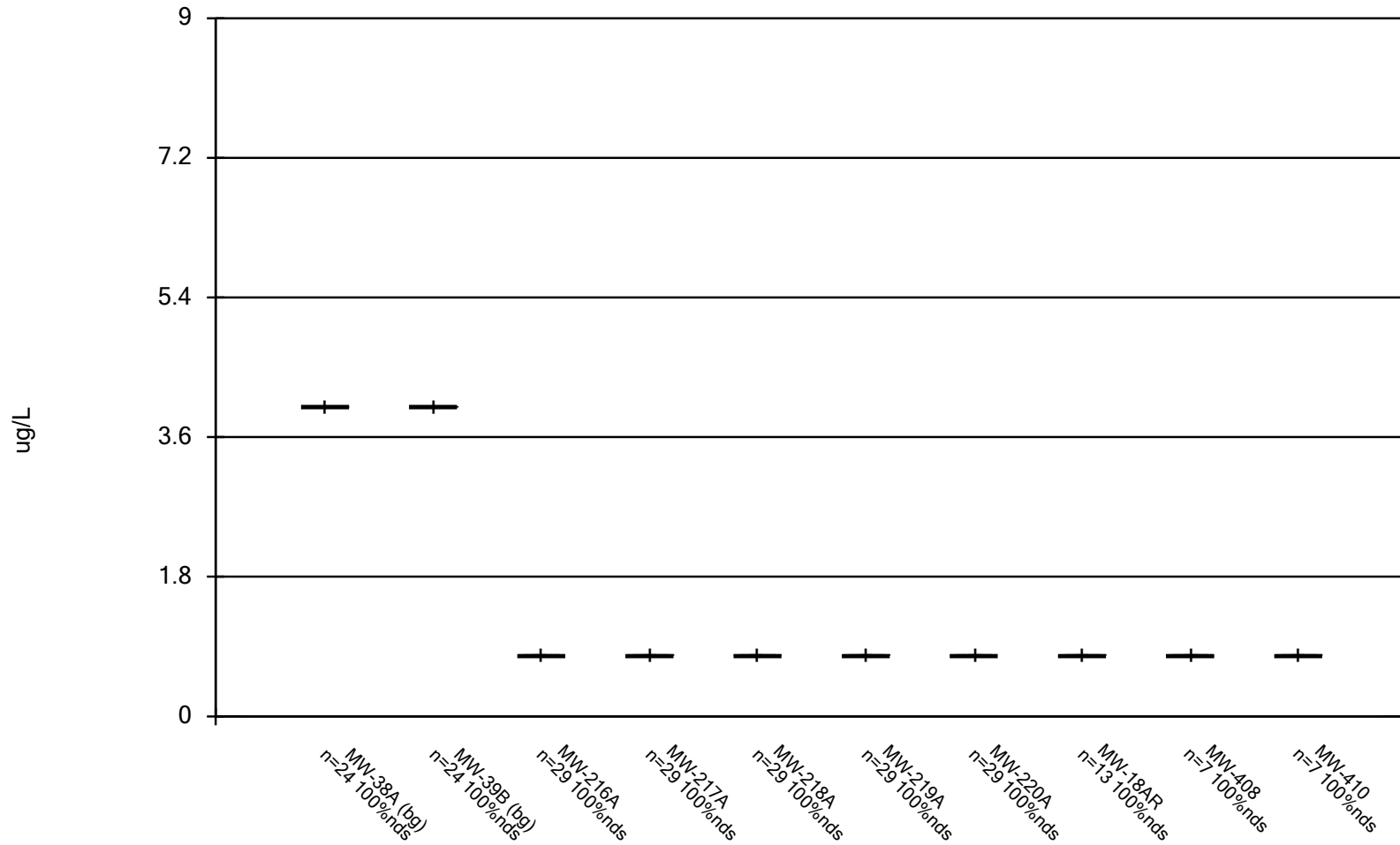
Box & Whiskers Plot



Constituent: Chloroethane Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

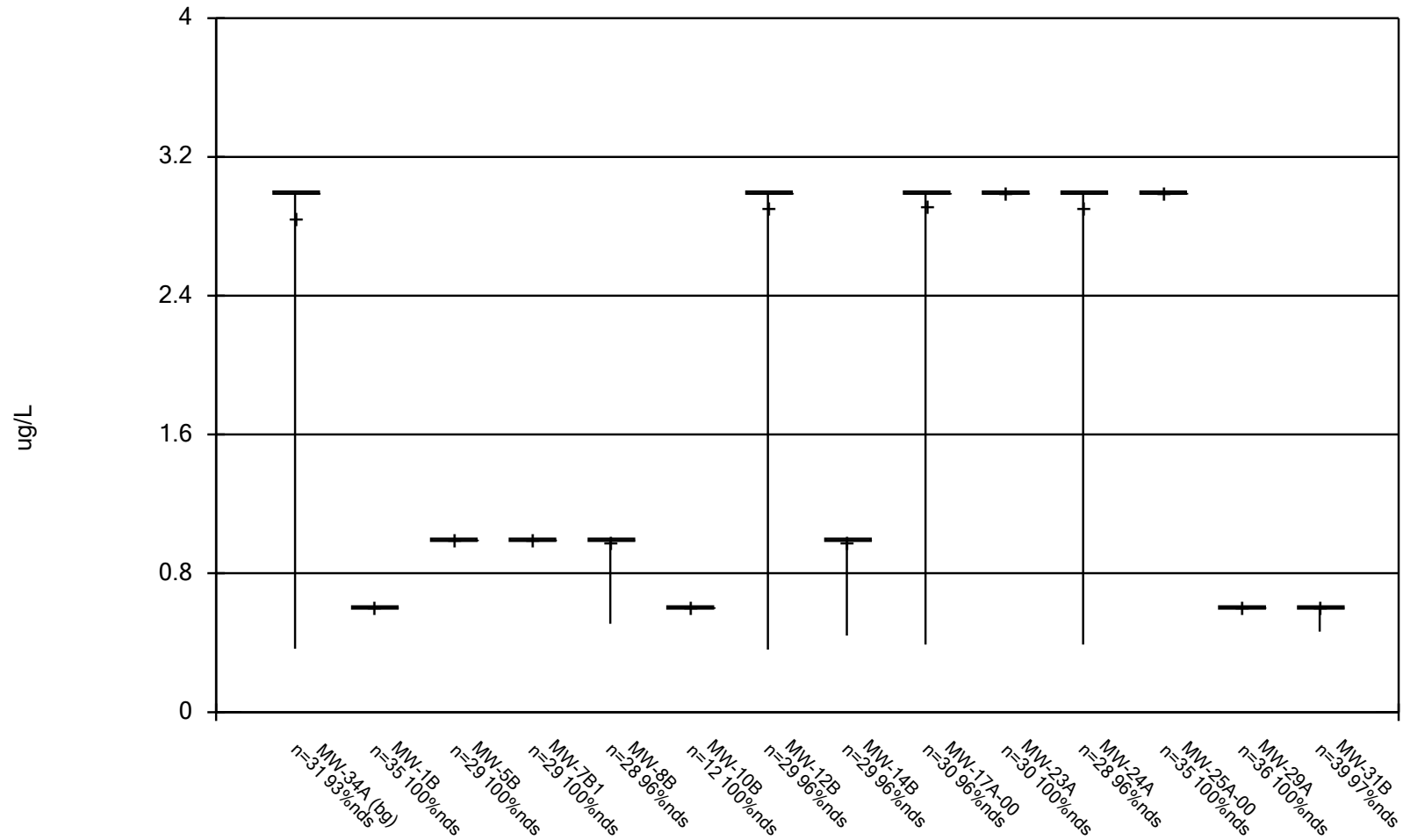
Box & Whiskers Plot



Constituent: Chloroethane Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

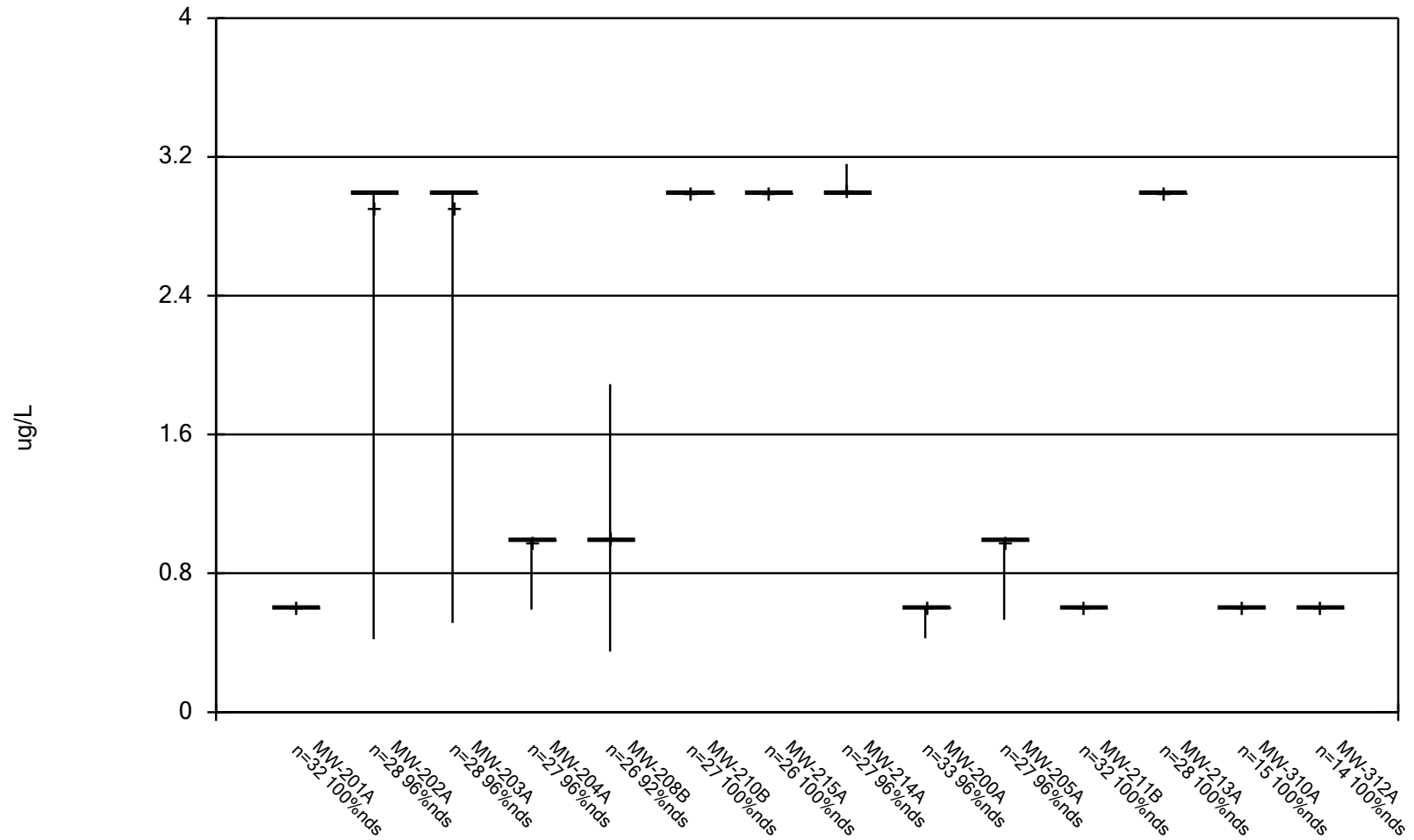
Box & Whiskers Plot



Constituent: Chloromethane Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

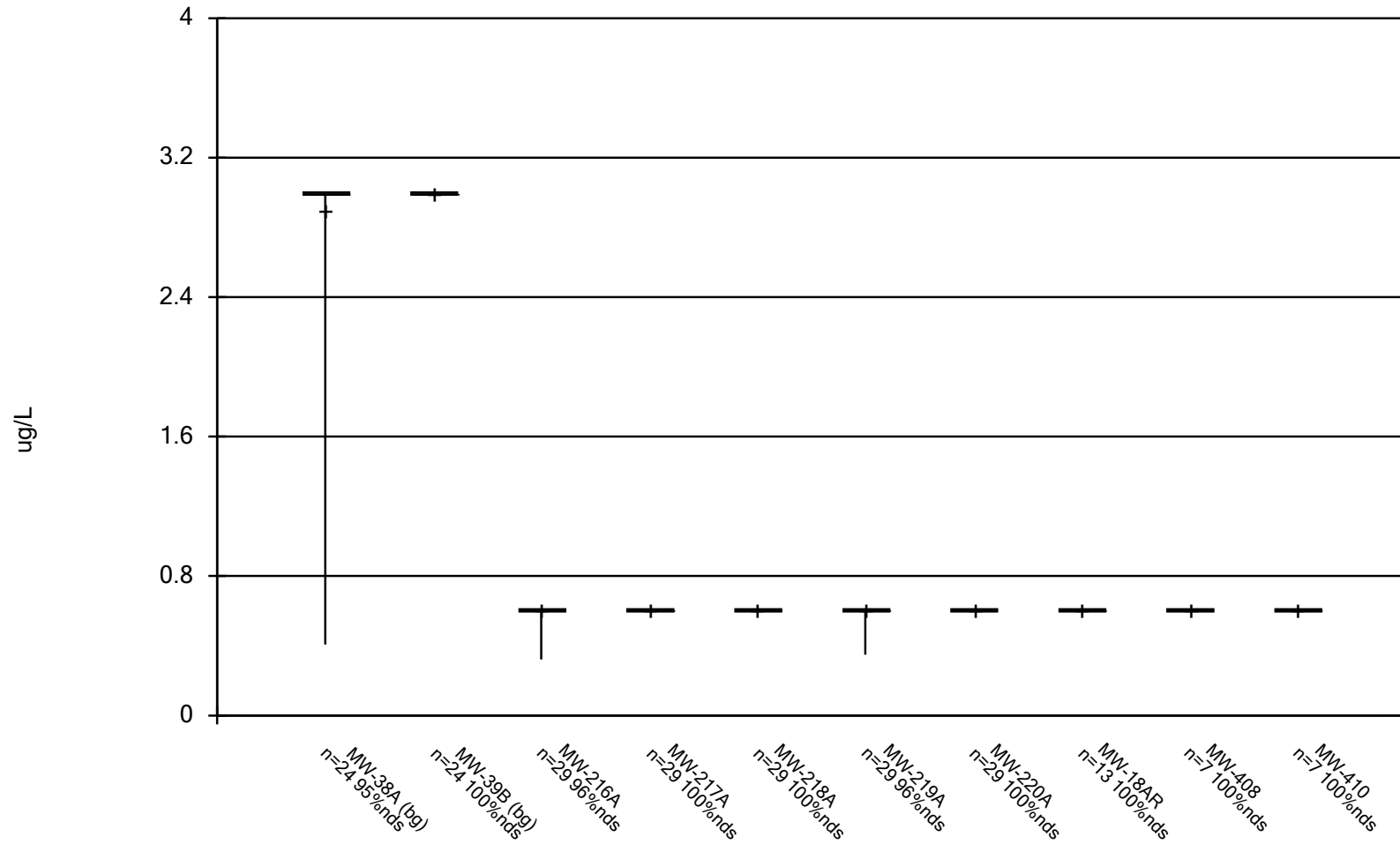
Box & Whiskers Plot



Constituent: Chloromethane Analysis Run 1/21/2025 9:20 PM View: 06A_MW_Organics_PL

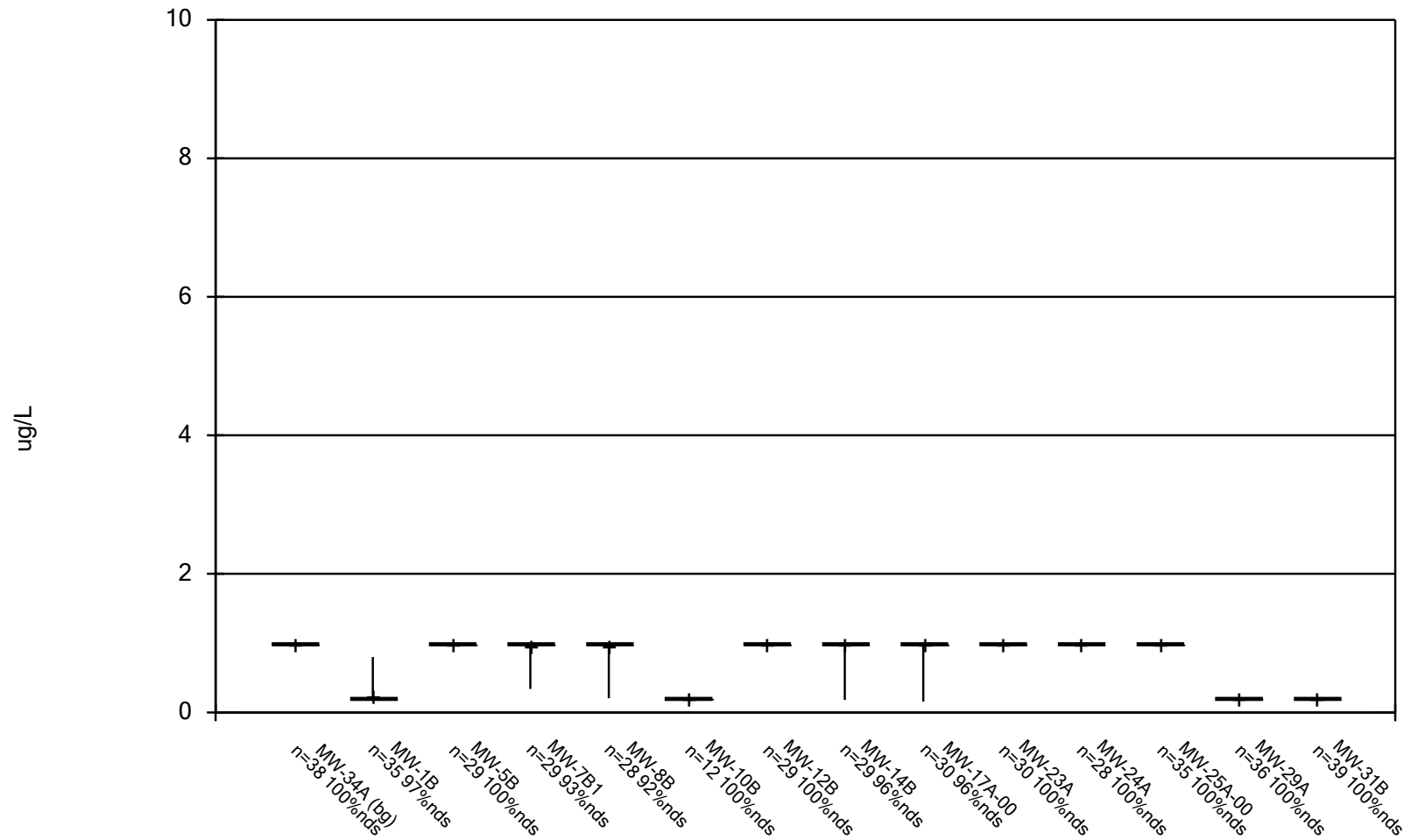
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



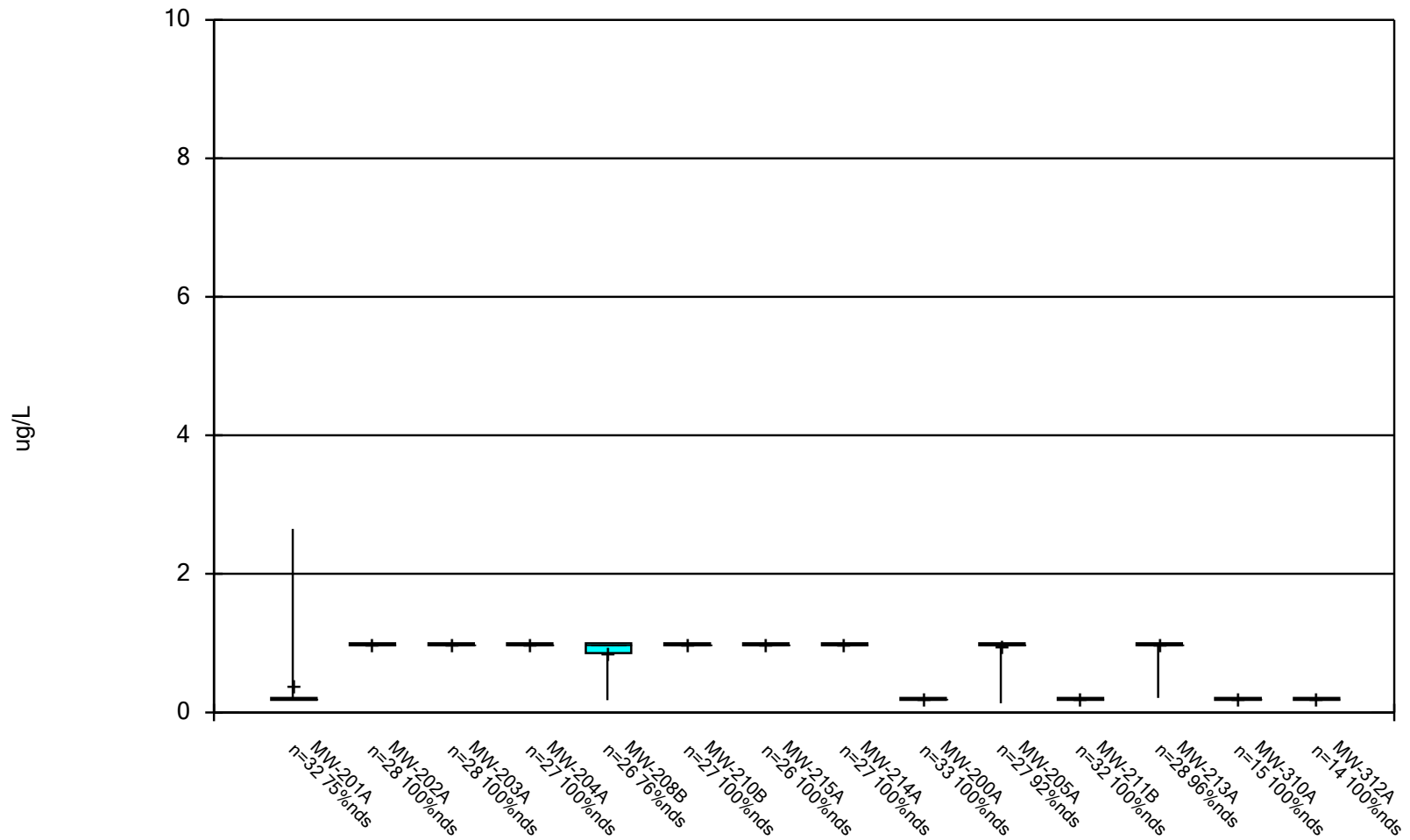
Constituent: Chloromethane Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: cis-1,2-Dichloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

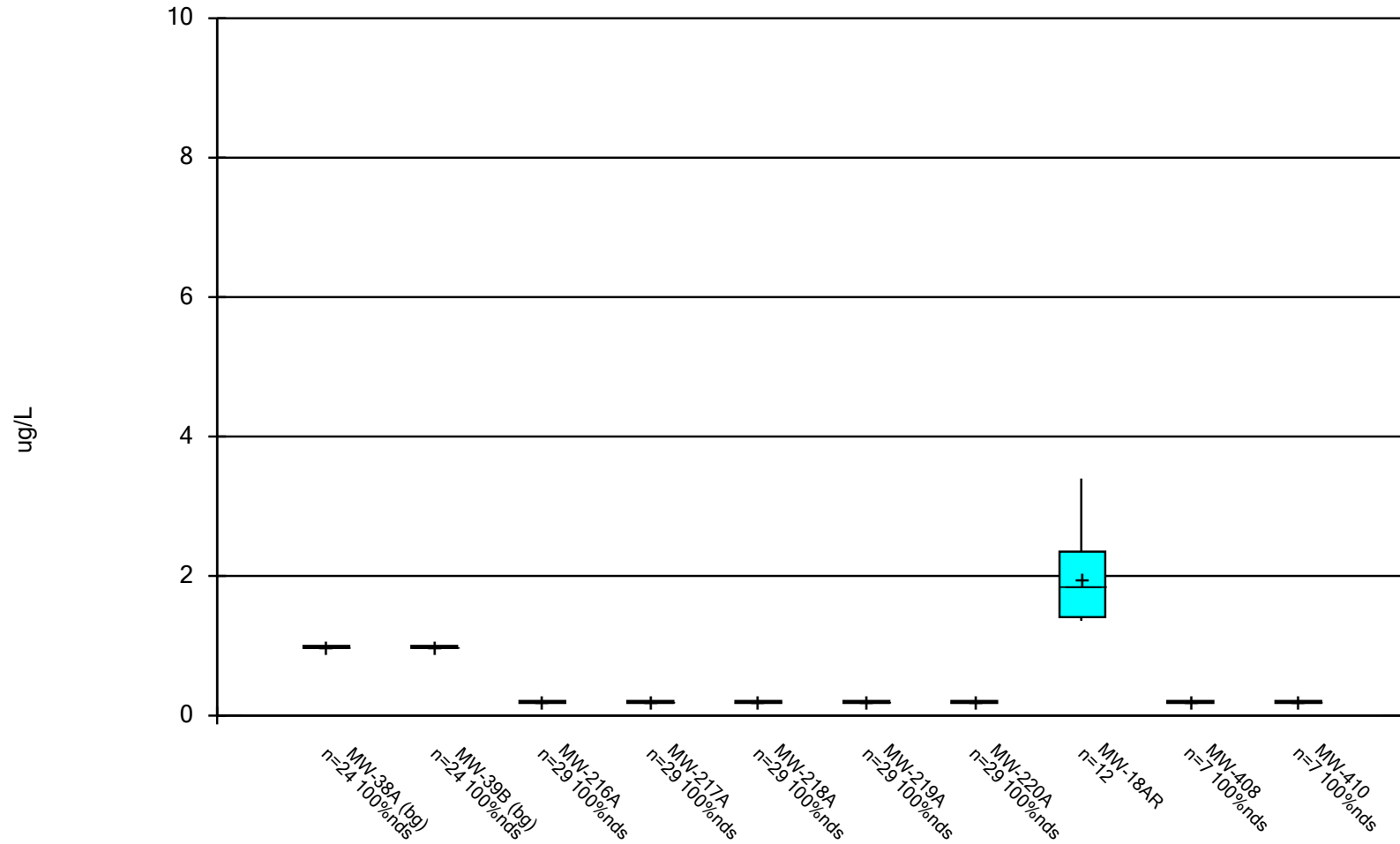
Box & Whiskers Plot



Constituent: cis-1,2-Dichloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

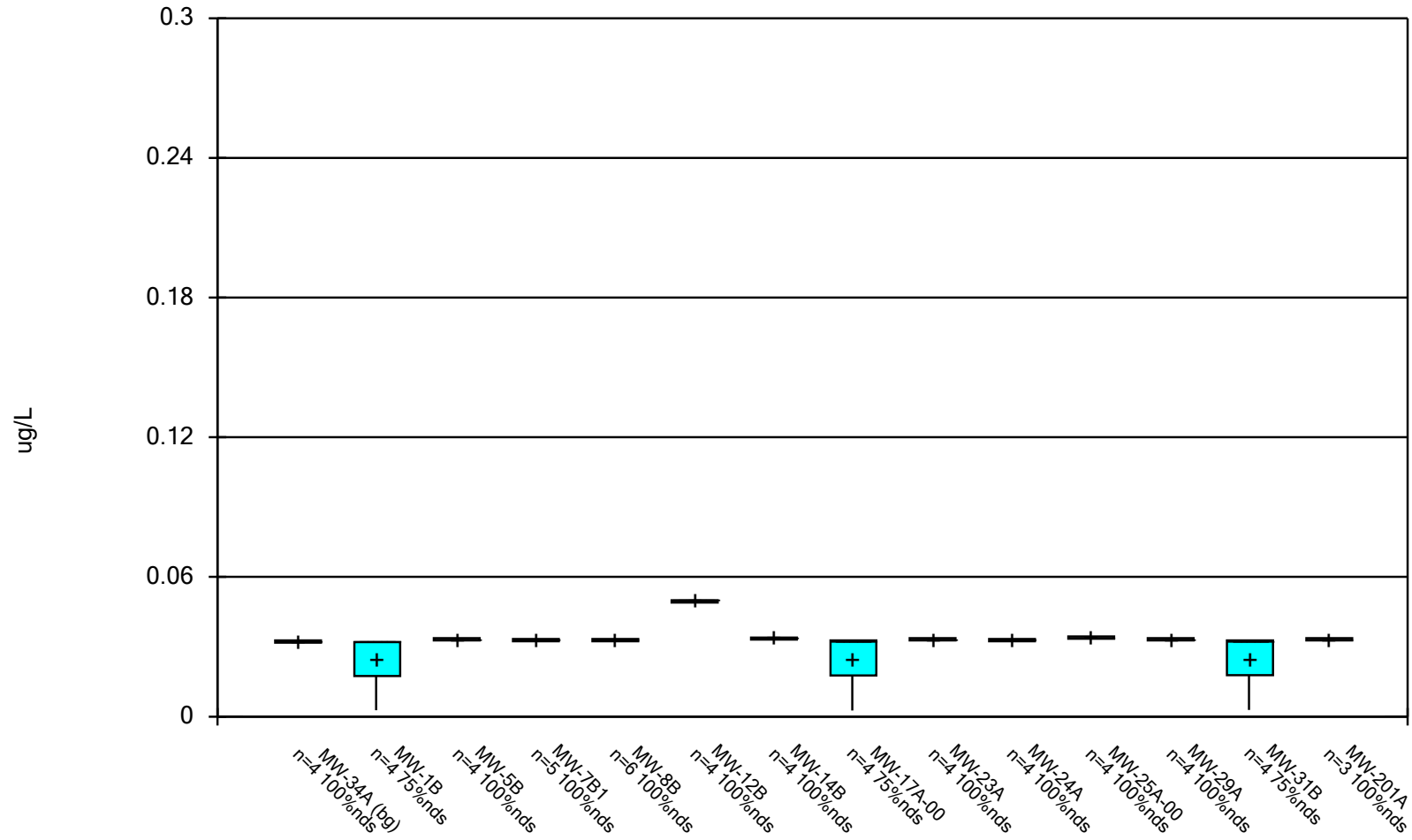
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: cis-1,2-Dichloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

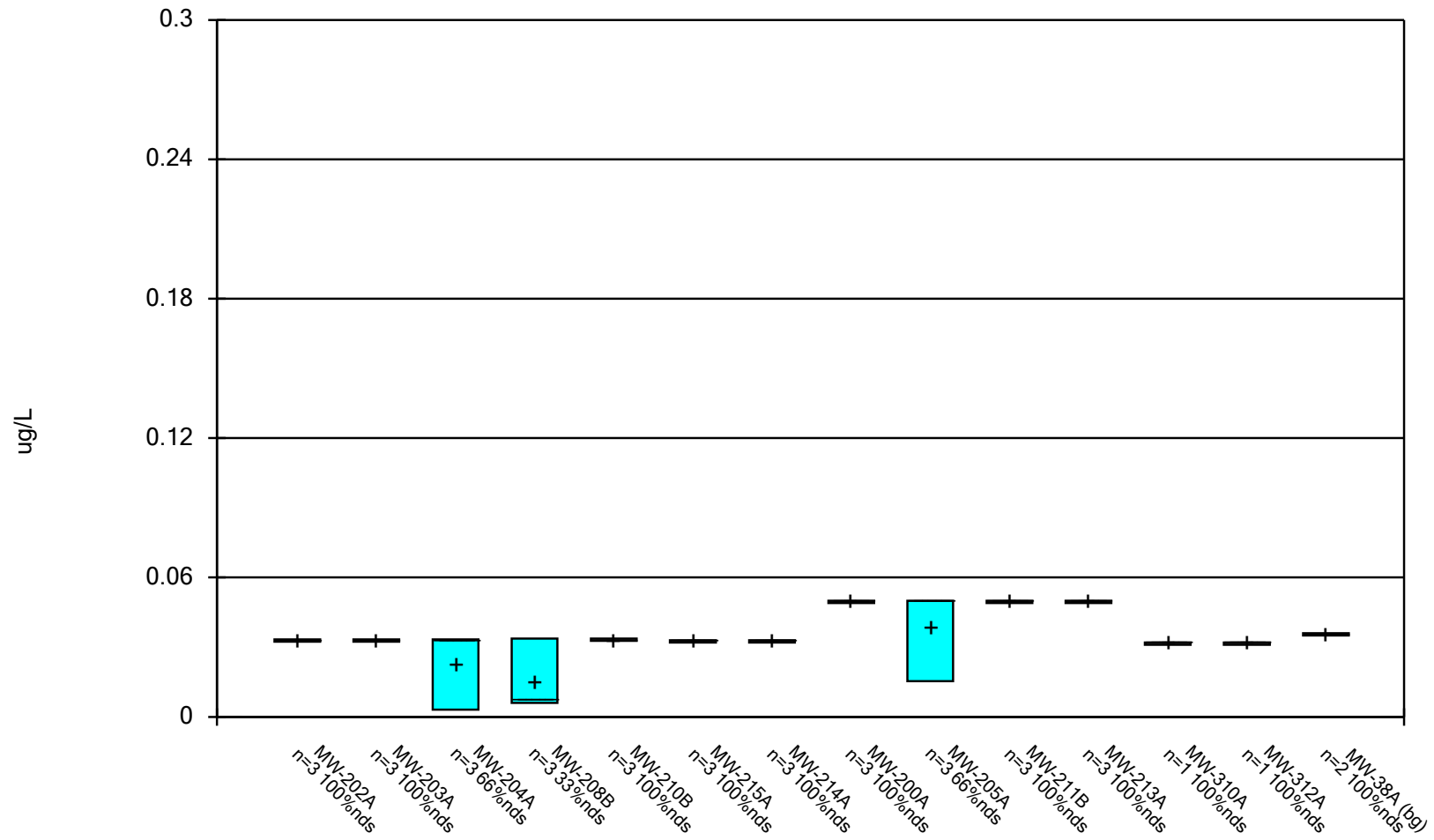
Box & Whiskers Plot



Constituent: Delta-BHC Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

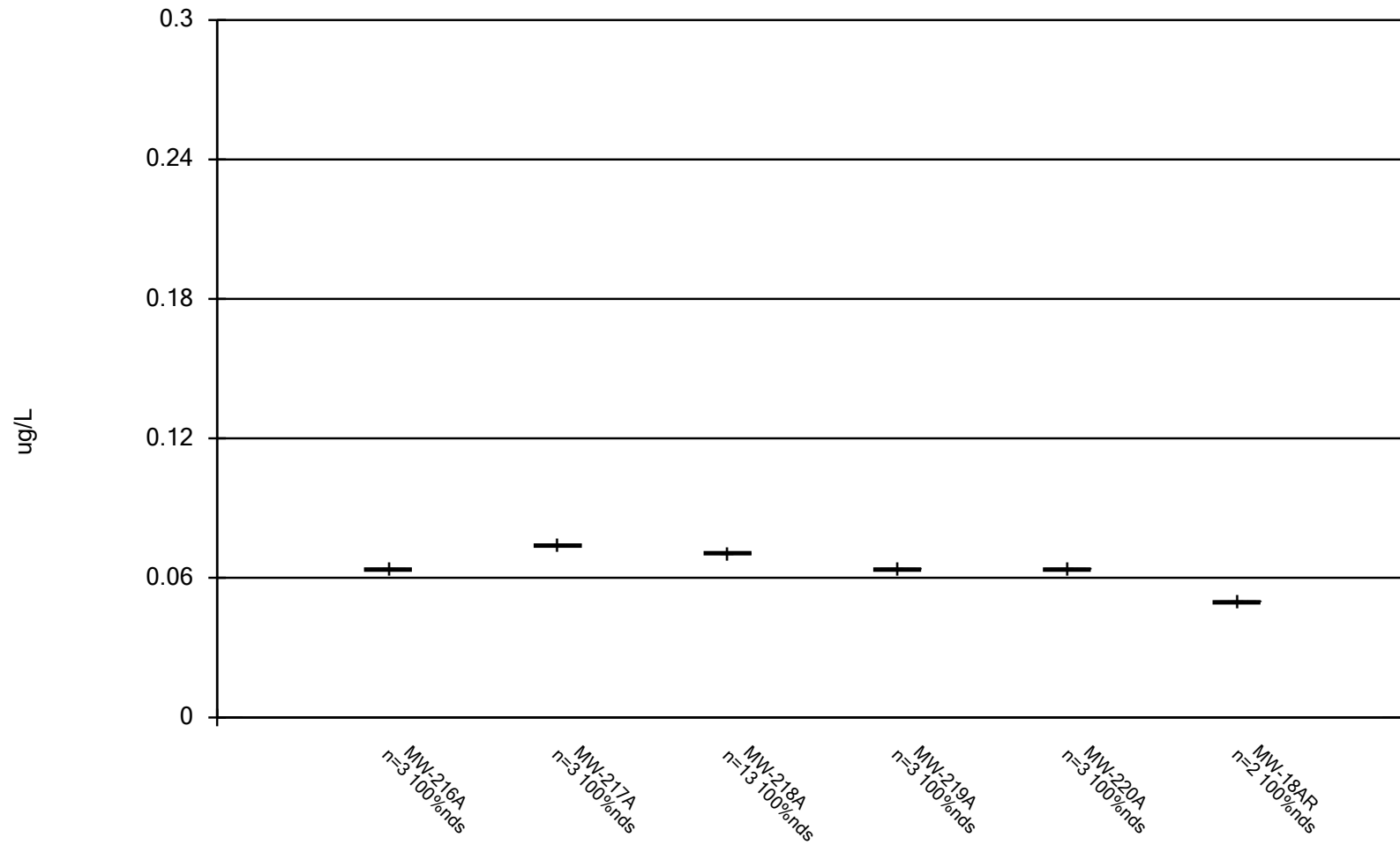
Box & Whiskers Plot



Constituent: Delta-BHC Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

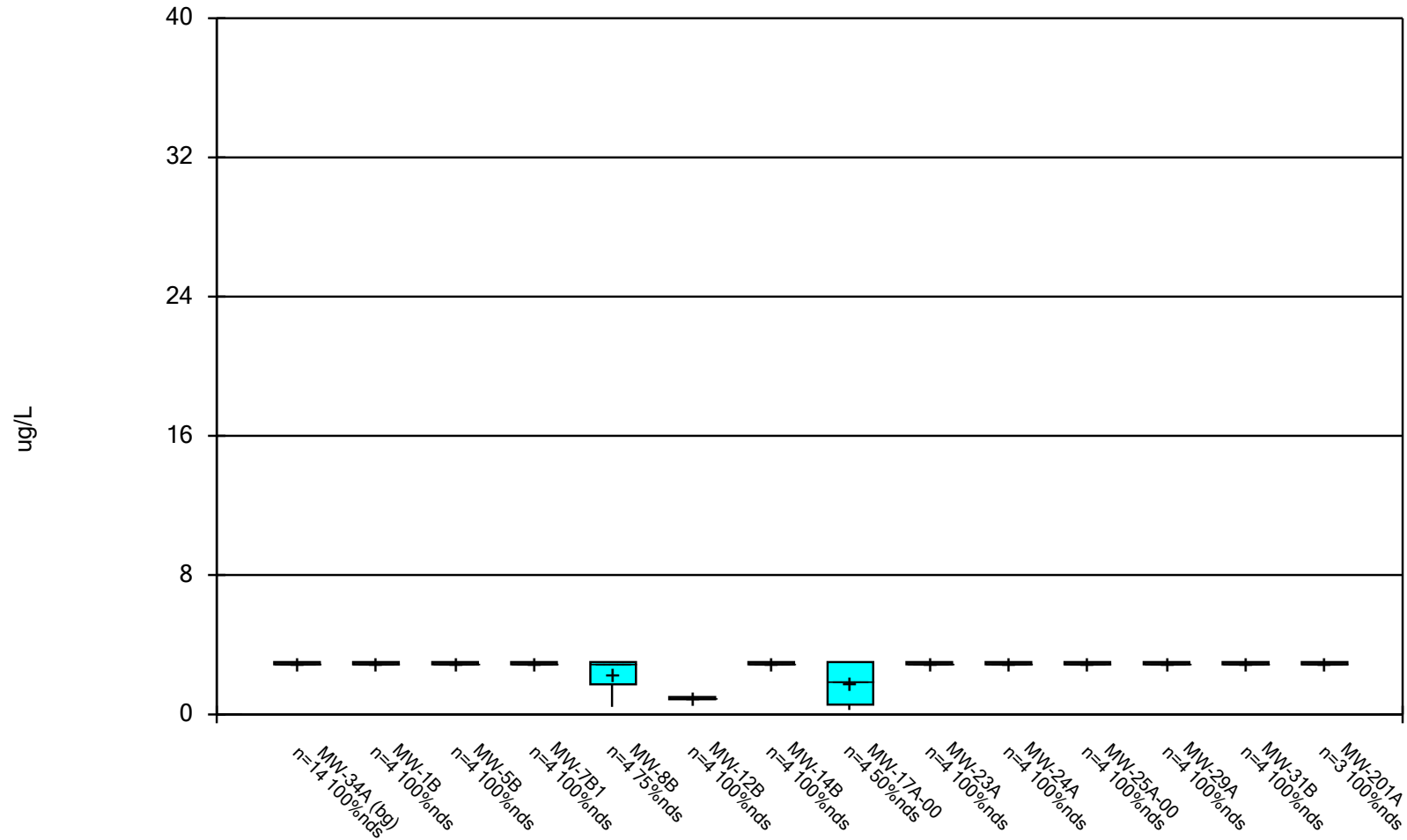
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



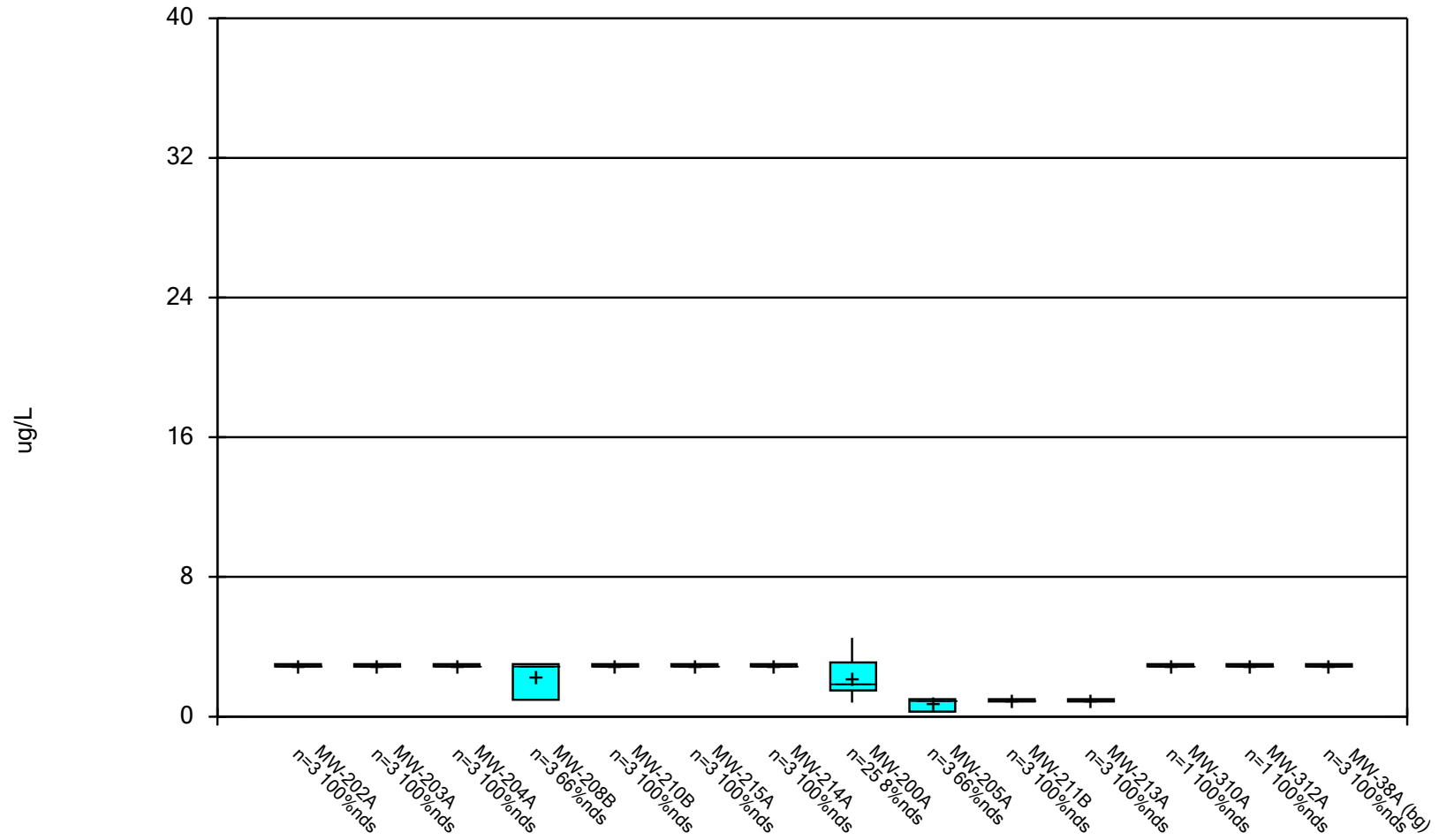
Constituent: Delta-BHC Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



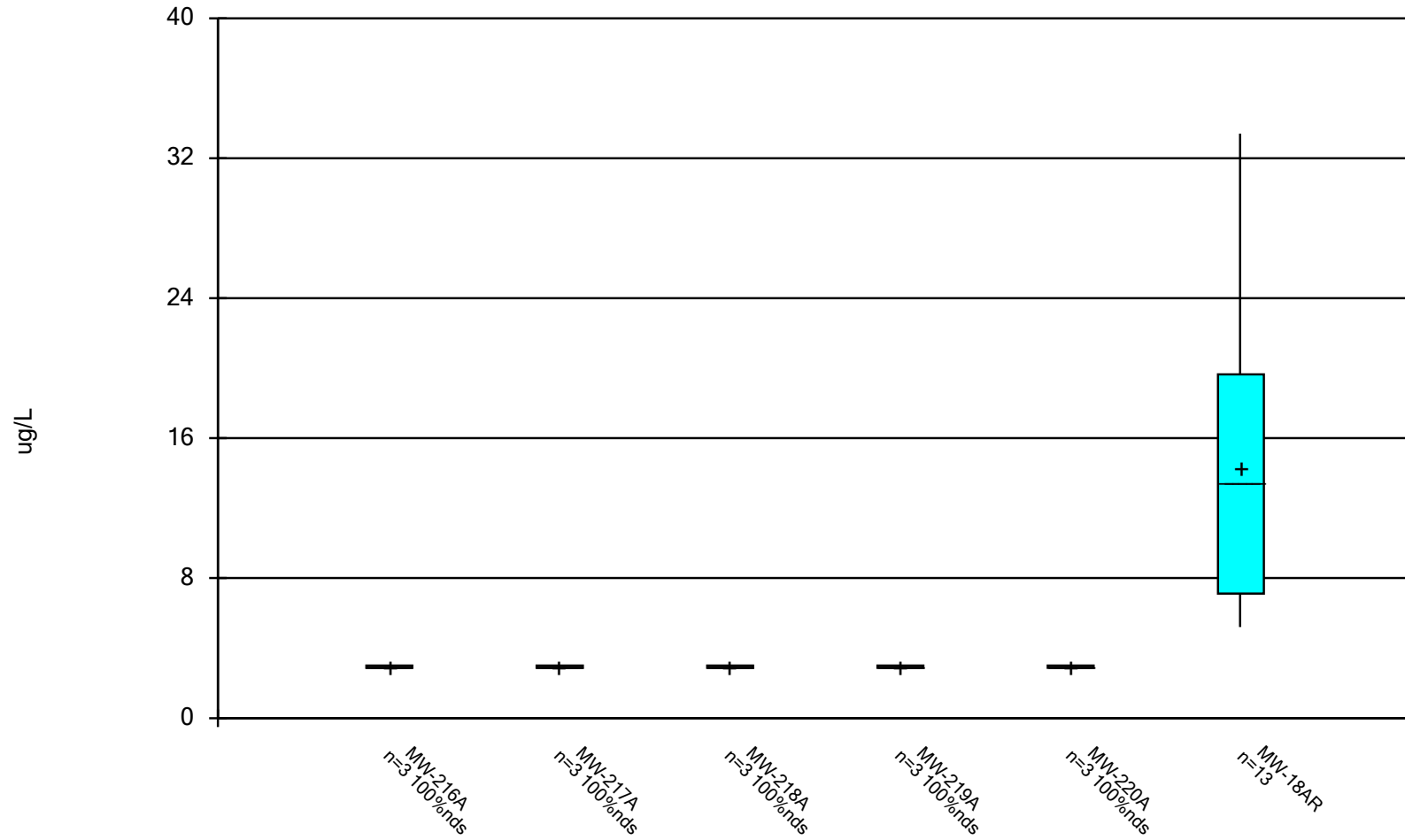
Constituent: Dichlorodifluoromethane Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



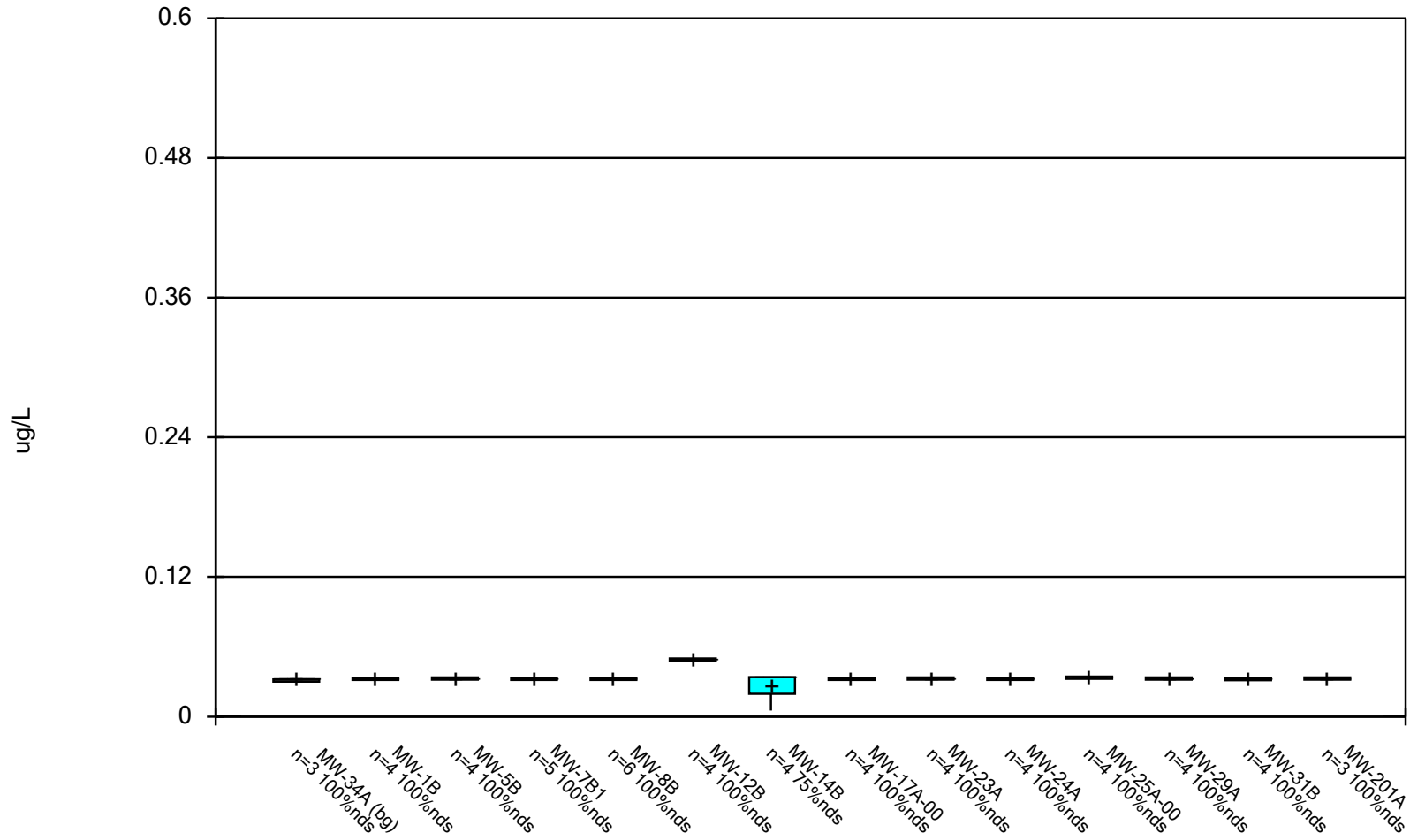
Constituent: Dichlorodifluoromethane Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Dichlorodifluoromethane Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

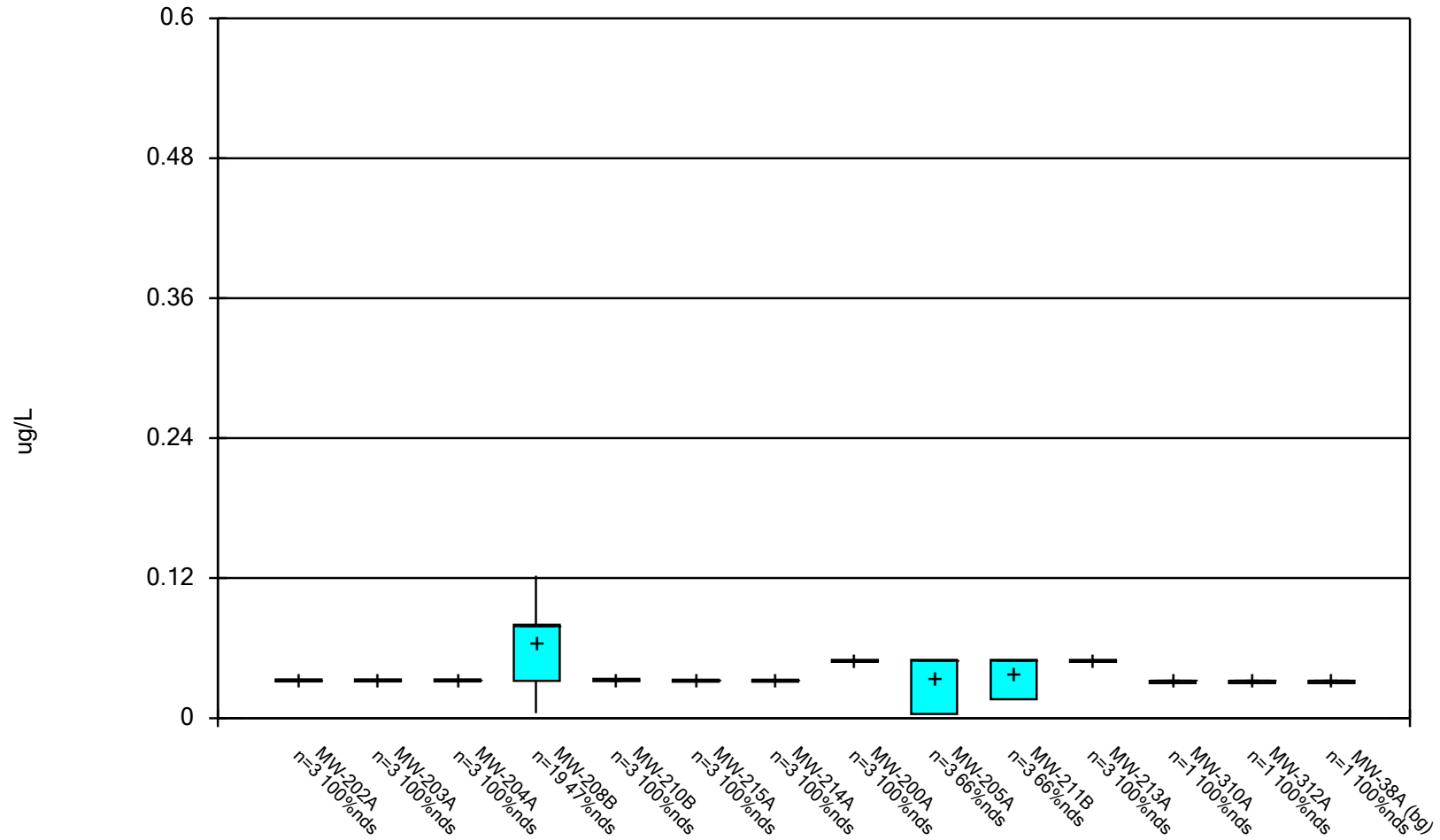
Box & Whiskers Plot



Constituent: Endrin Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

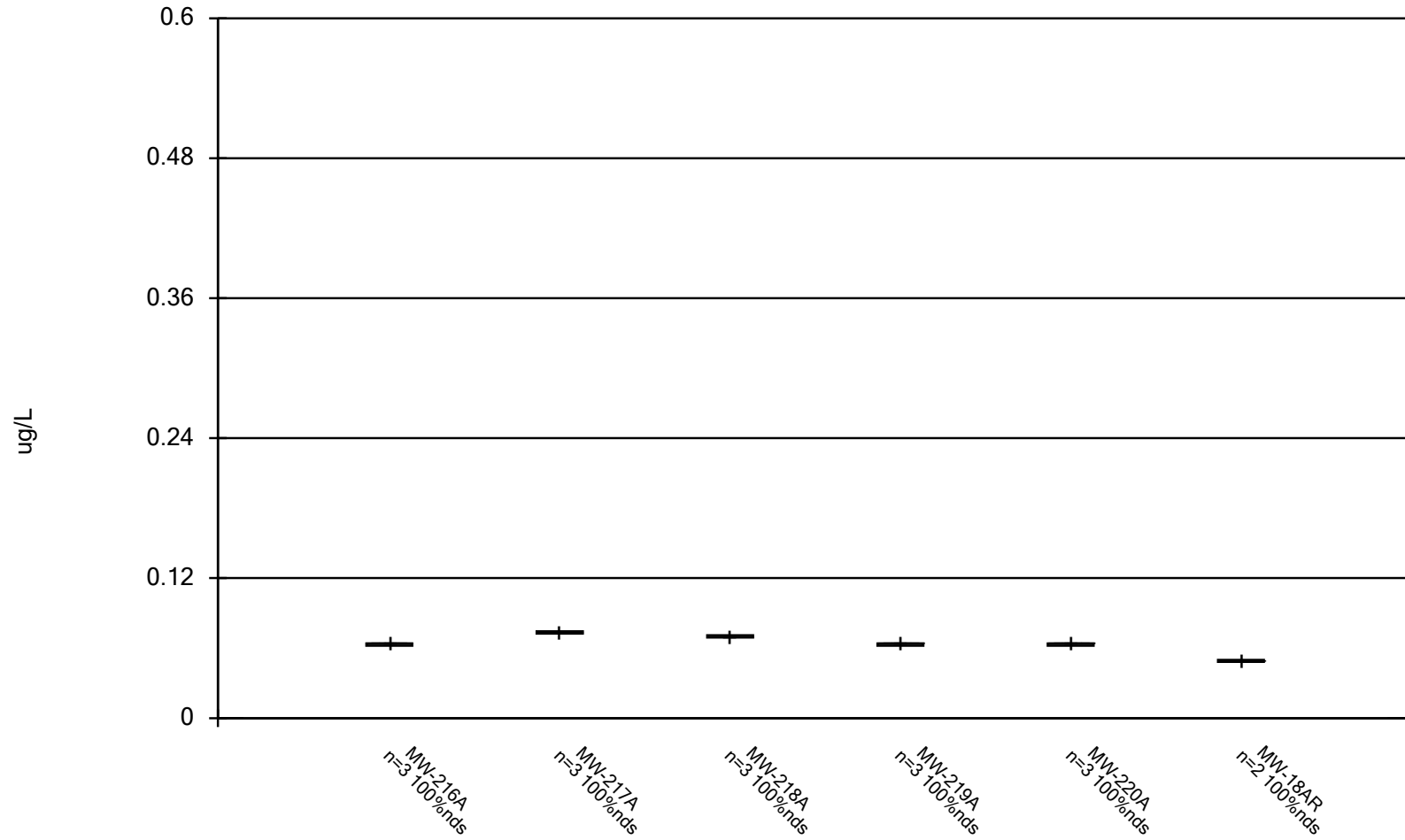
Box & Whiskers Plot



Constituent: Endrin Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

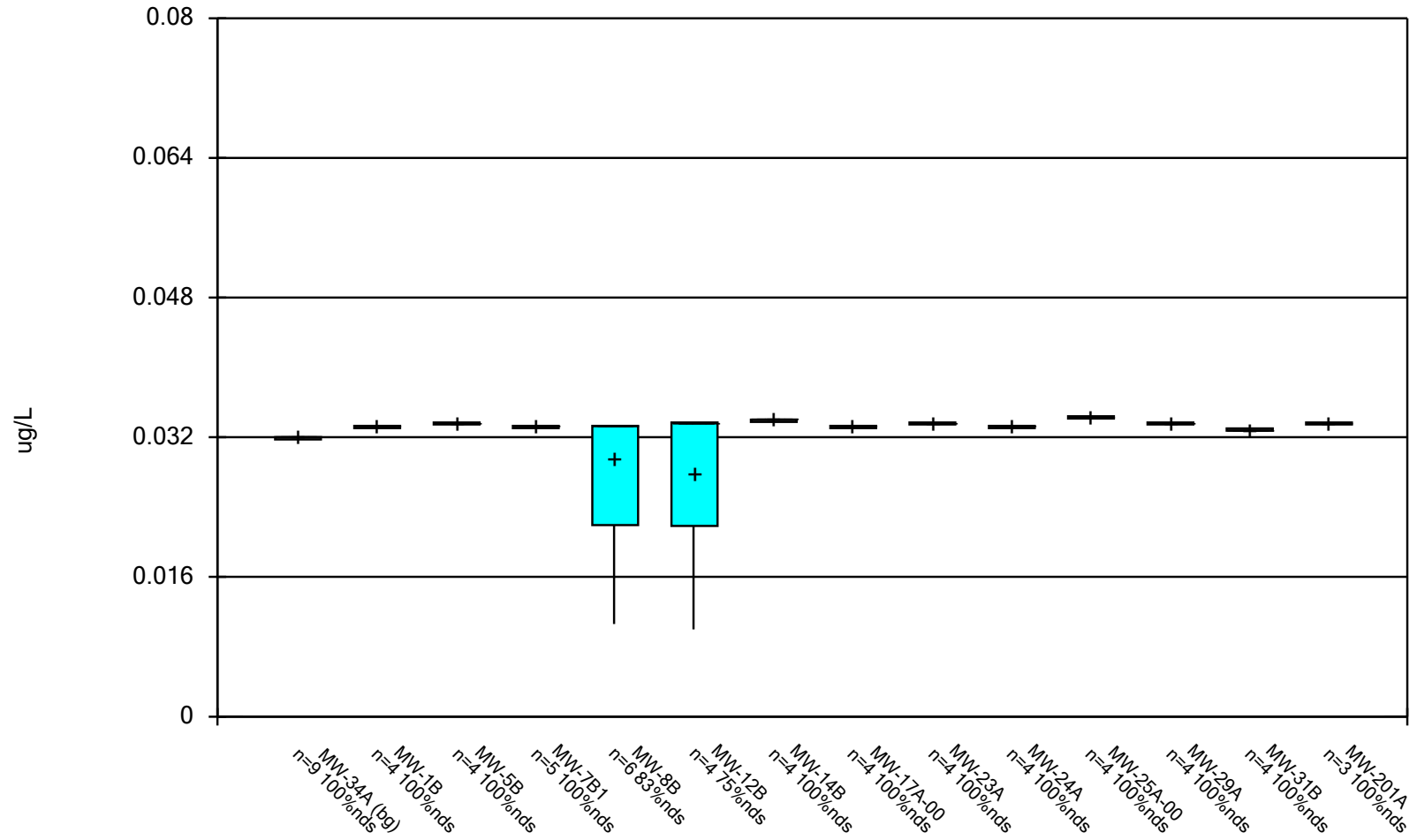
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



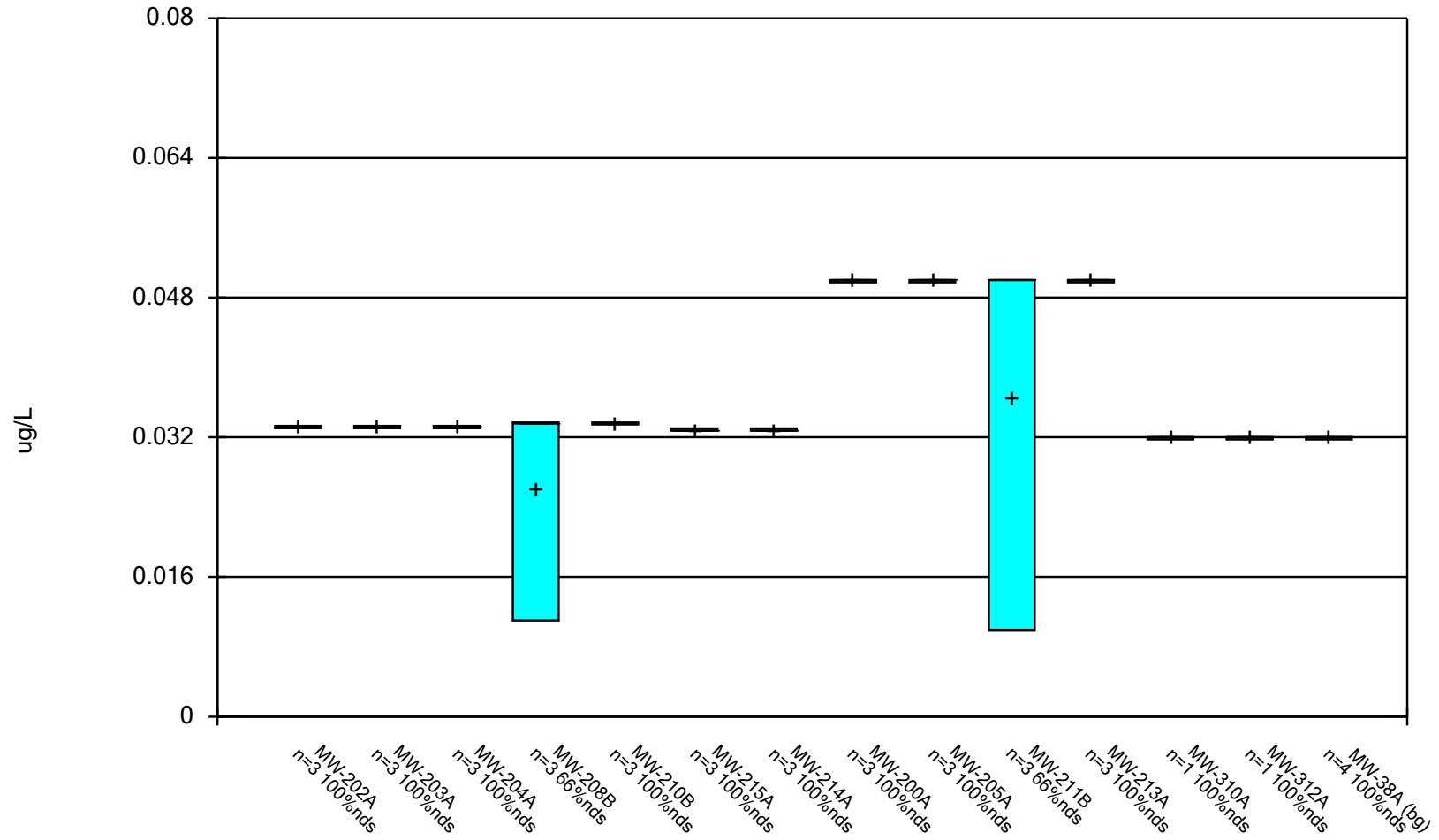
Constituent: Endrin Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



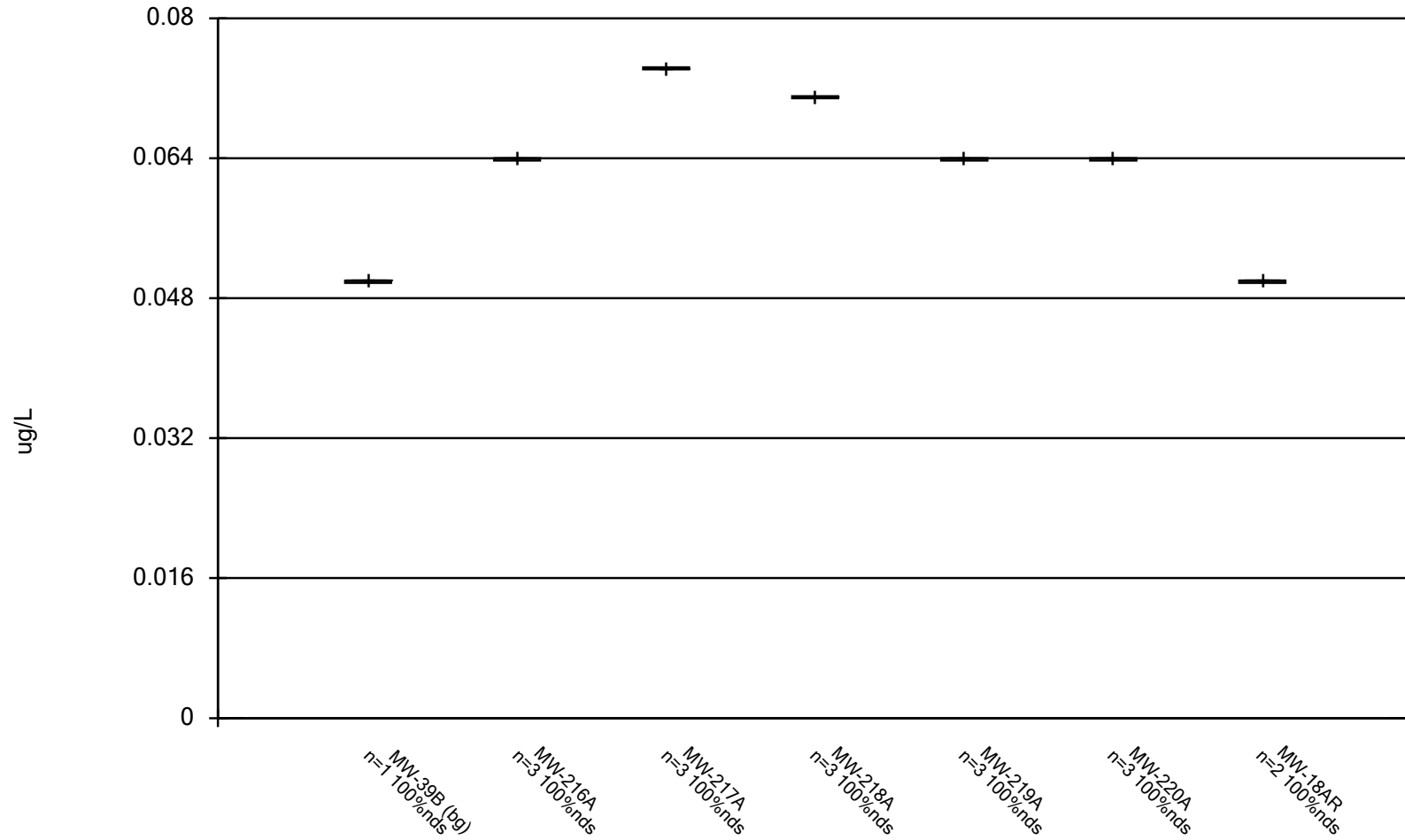
Constituent: Endrin aldehyde Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



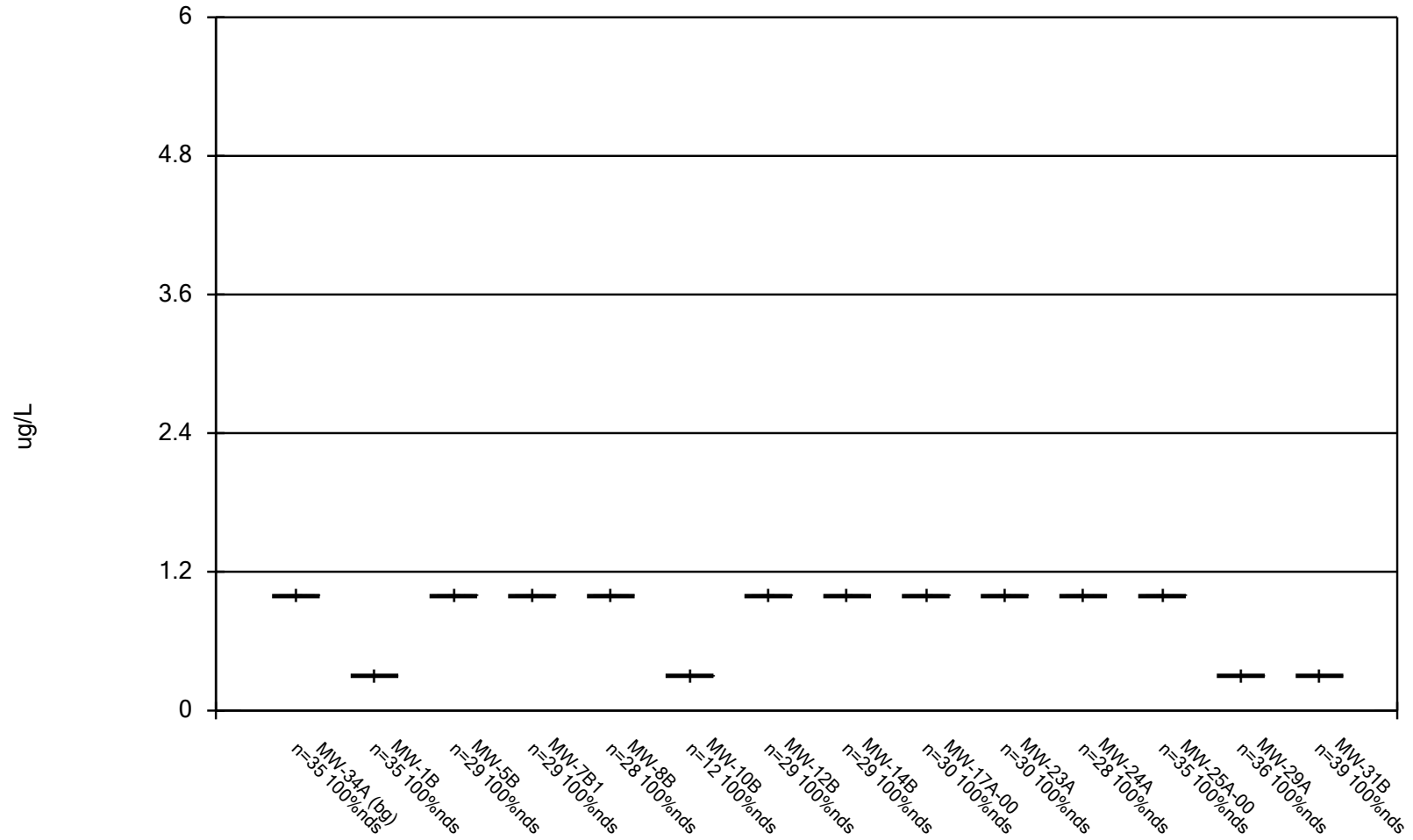
Constituent: Endrin aldehyde Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Endrin aldehyde Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

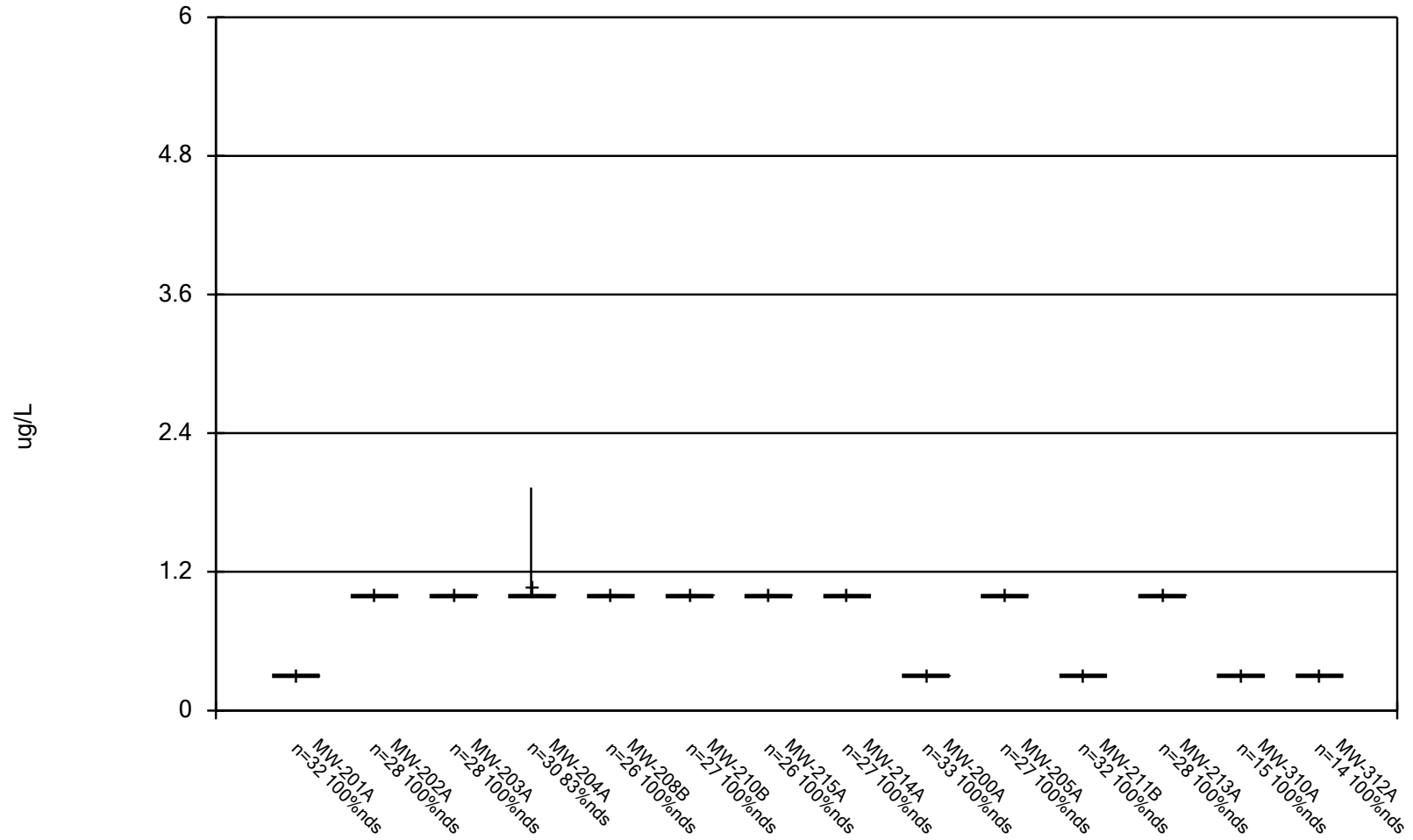
Box & Whiskers Plot



Constituent: Ethylbenzene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

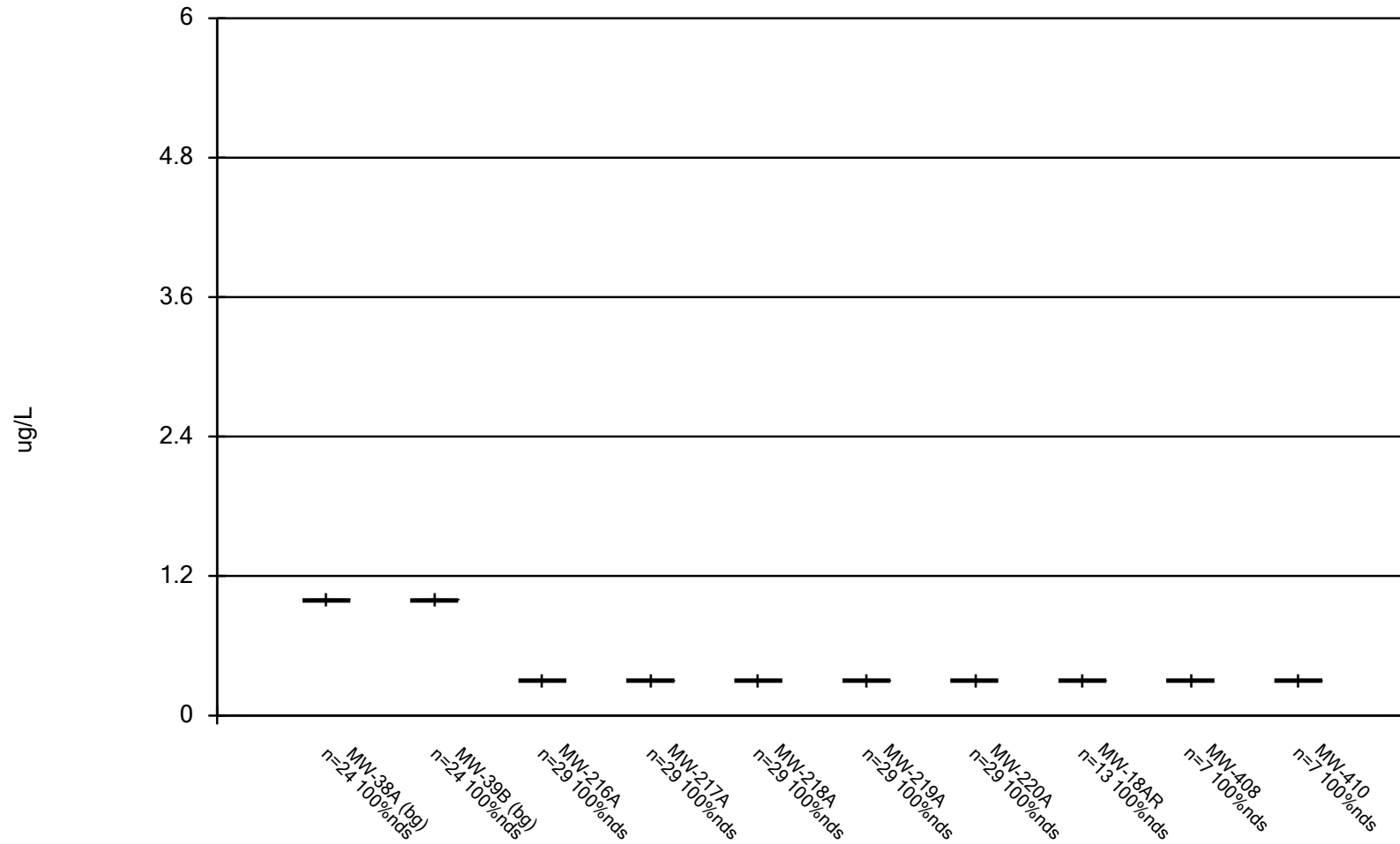
Box & Whiskers Plot



Constituent: Ethylbenzene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

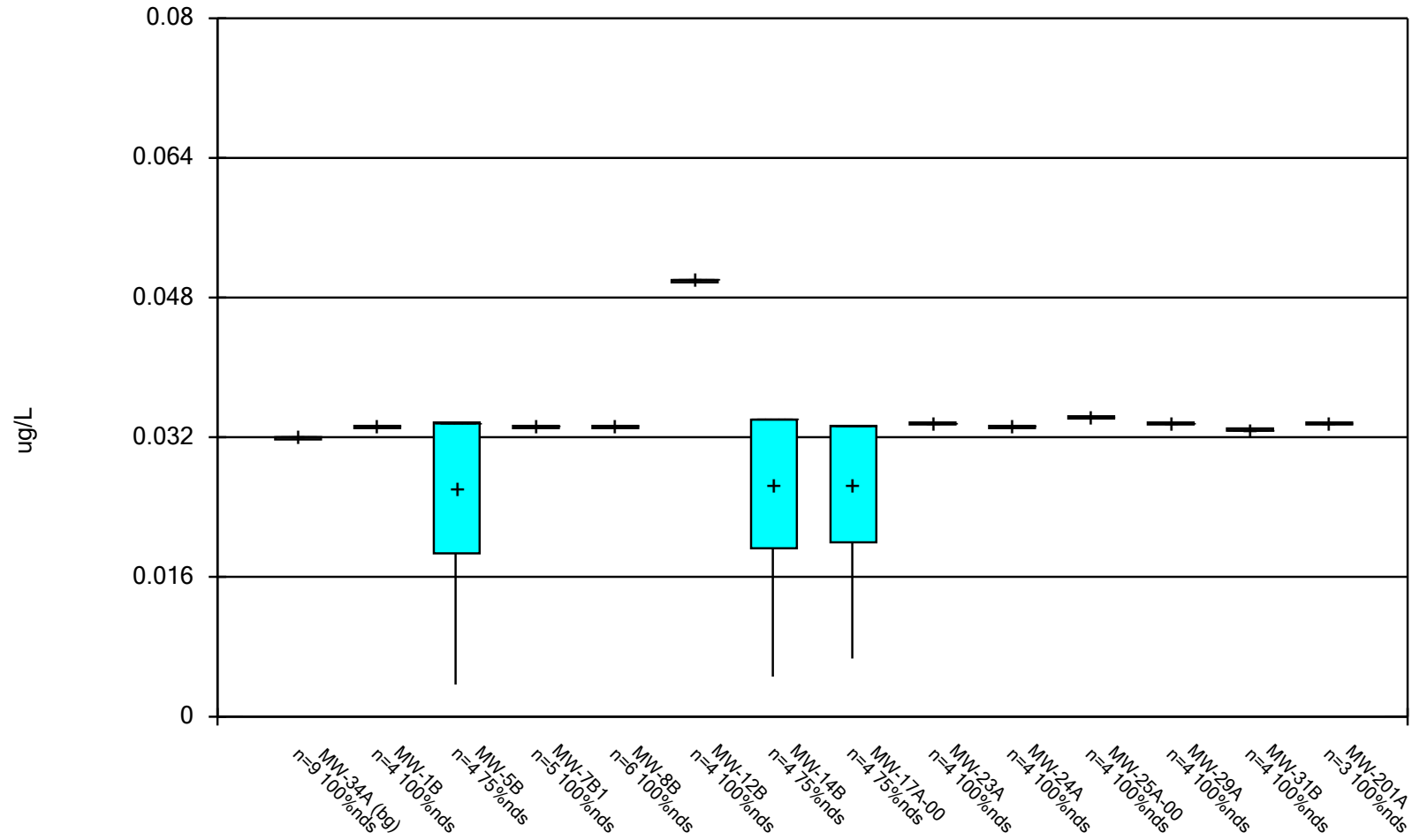
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Ethylbenzene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

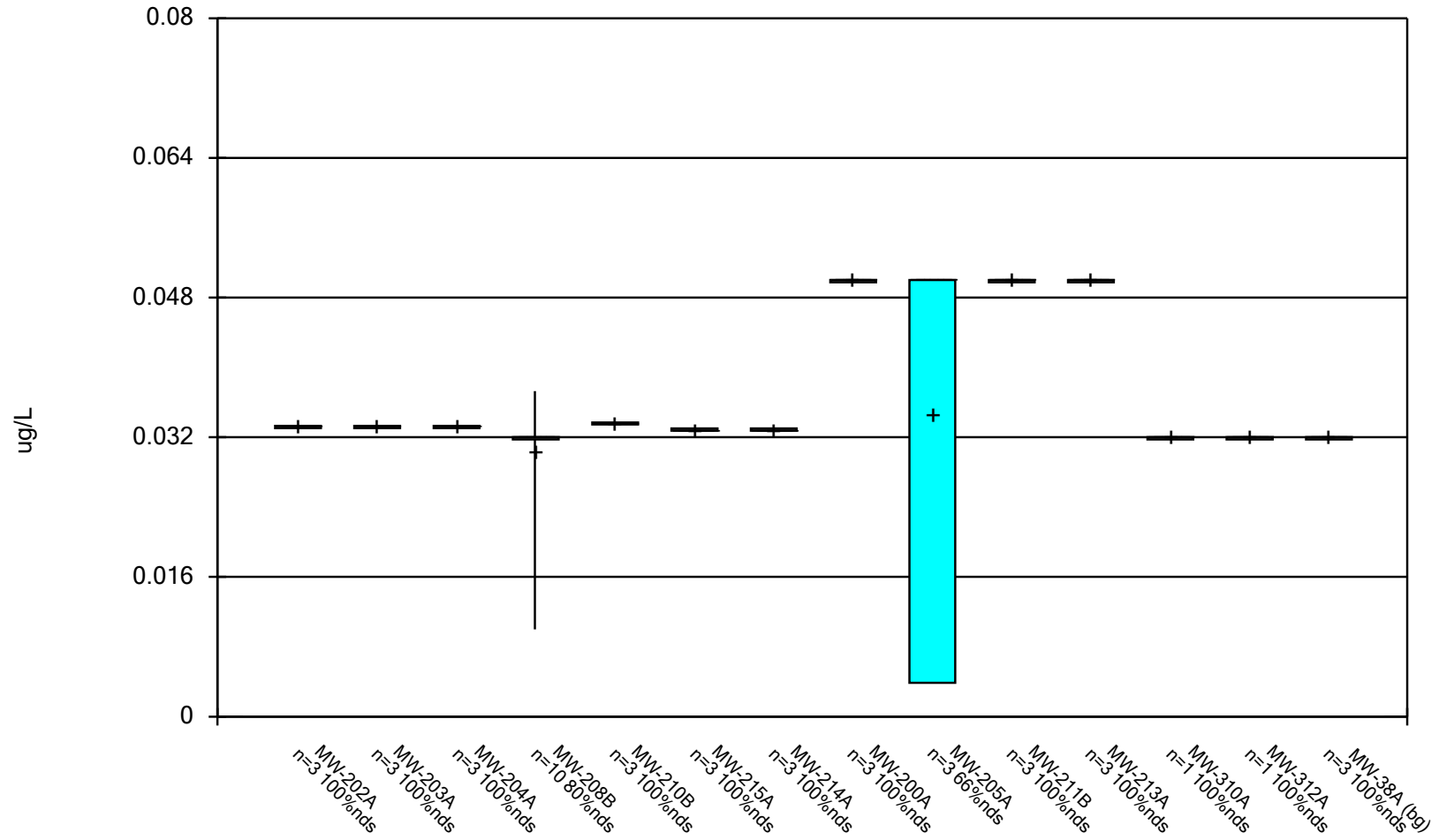
Box & Whiskers Plot



Constituent: Heptachlor Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

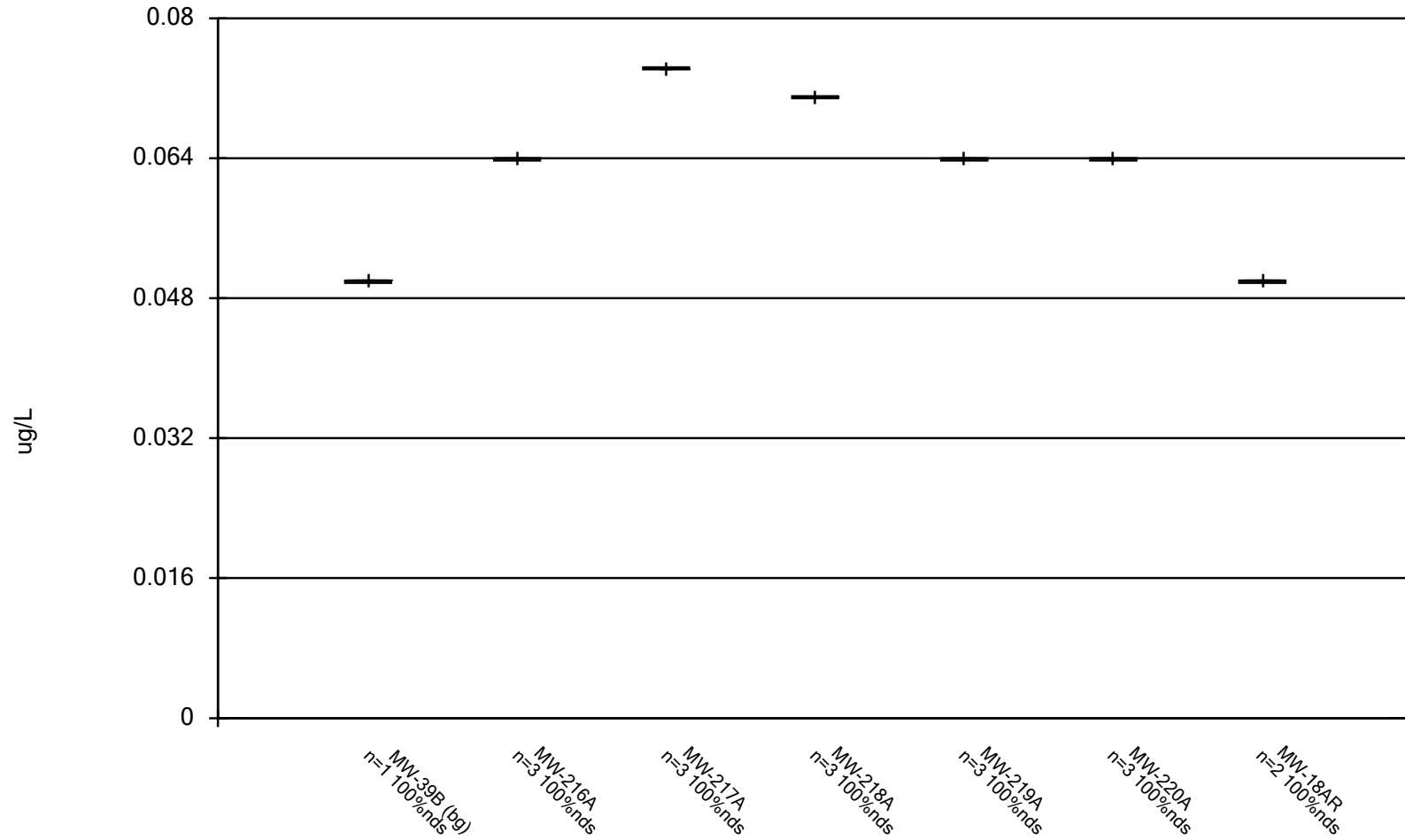
Box & Whiskers Plot



Constituent: Heptachlor Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

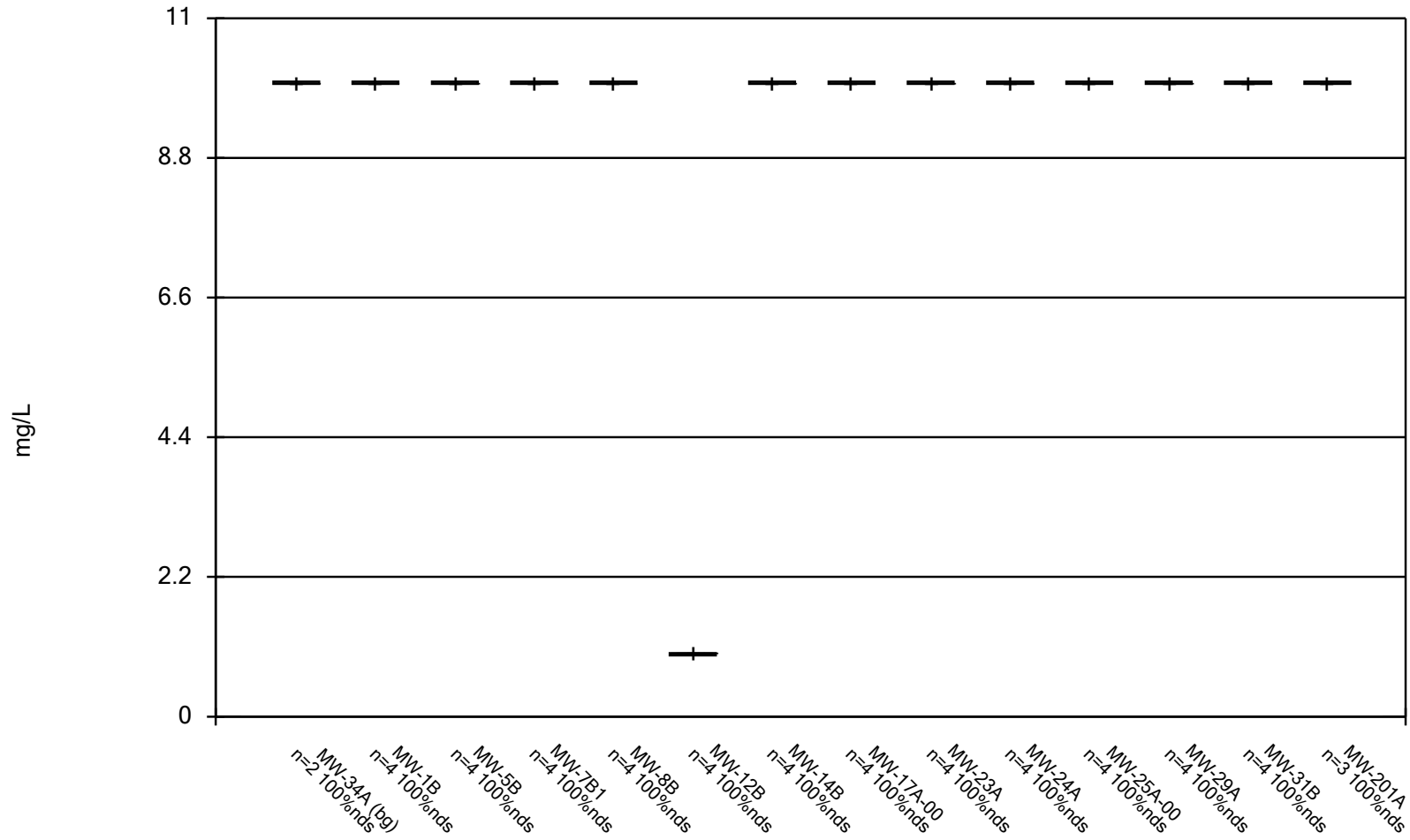
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Heptachlor Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

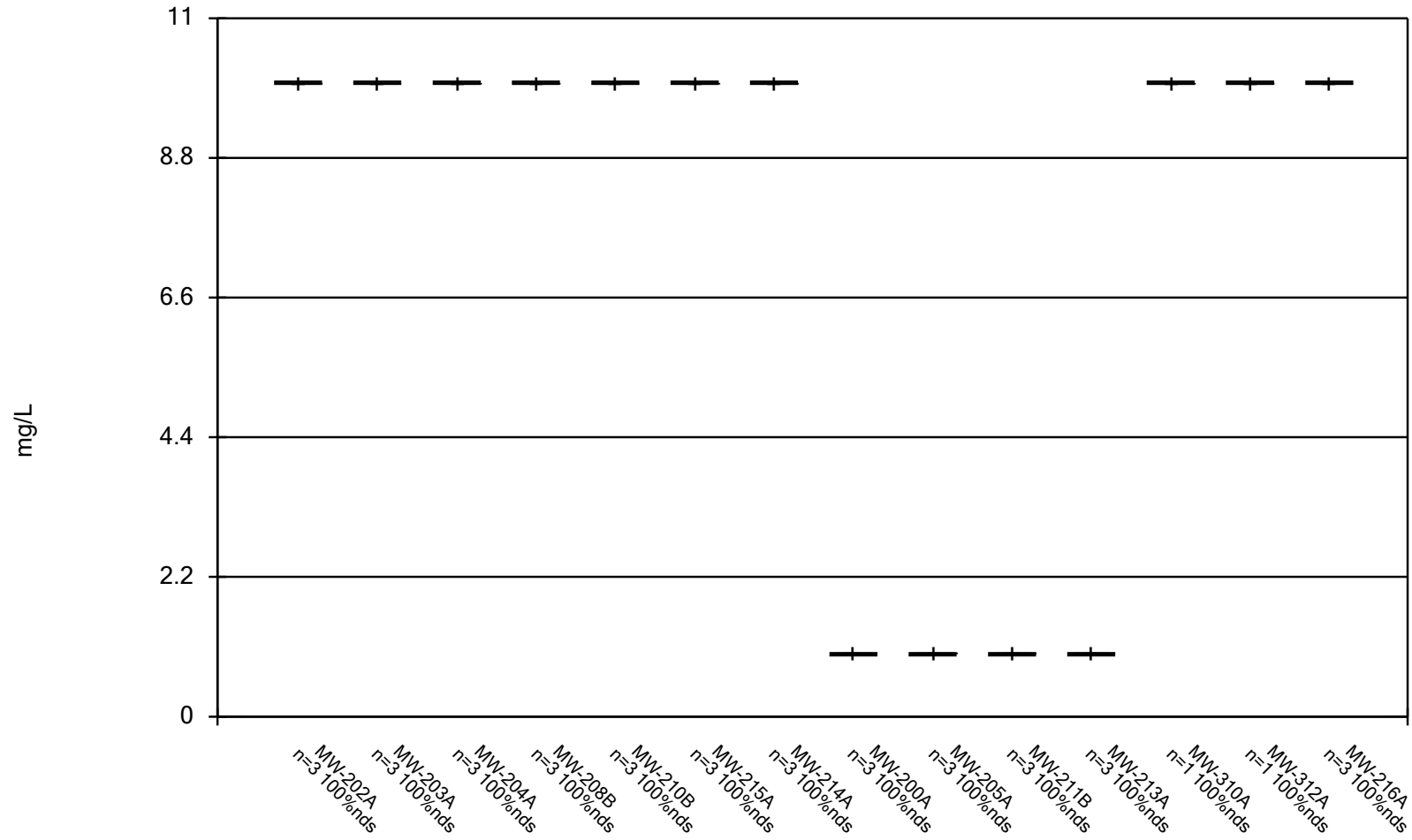
Box & Whiskers Plot



Constituent: Isobutanol Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

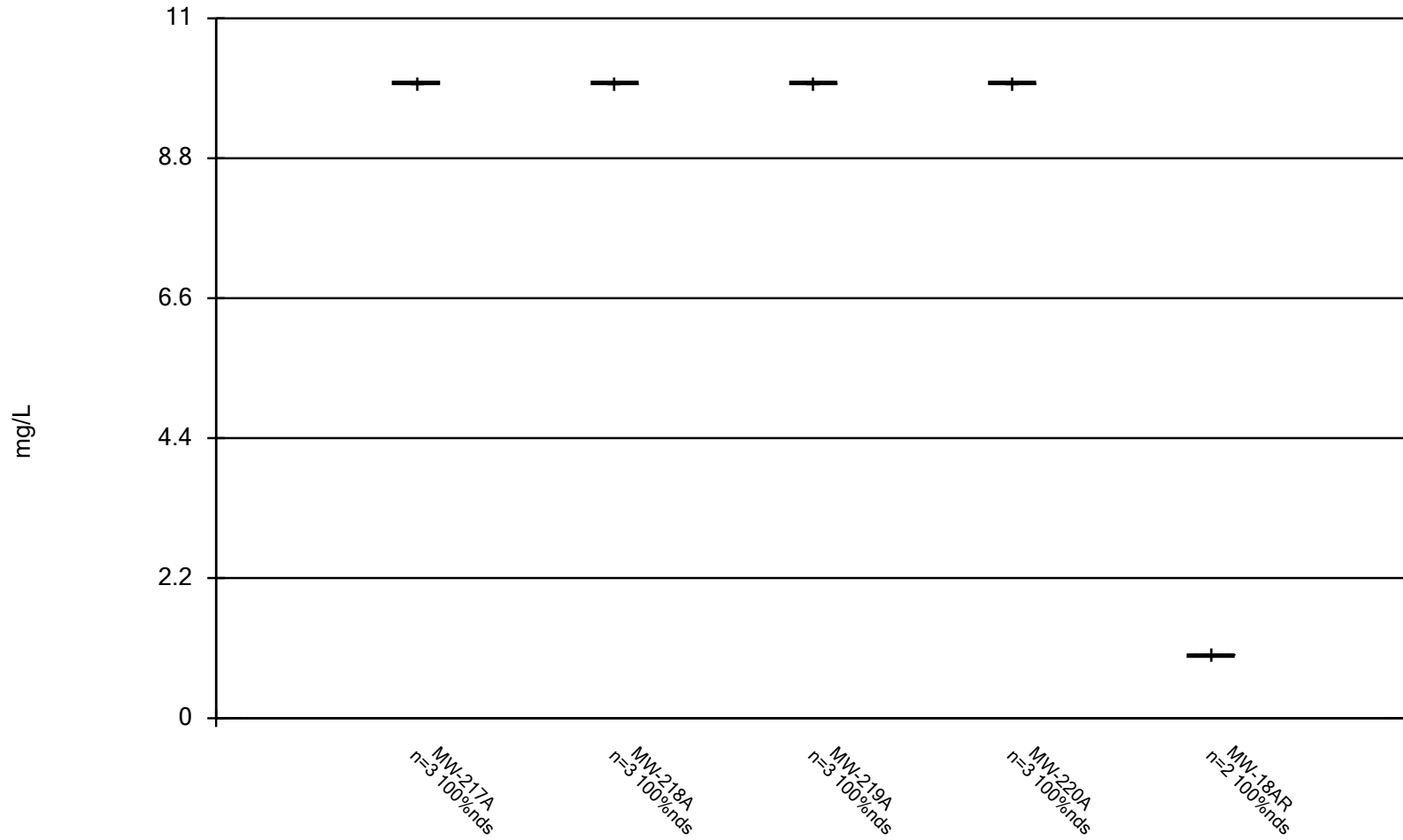
Box & Whiskers Plot



Constituent: Isobutanol Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

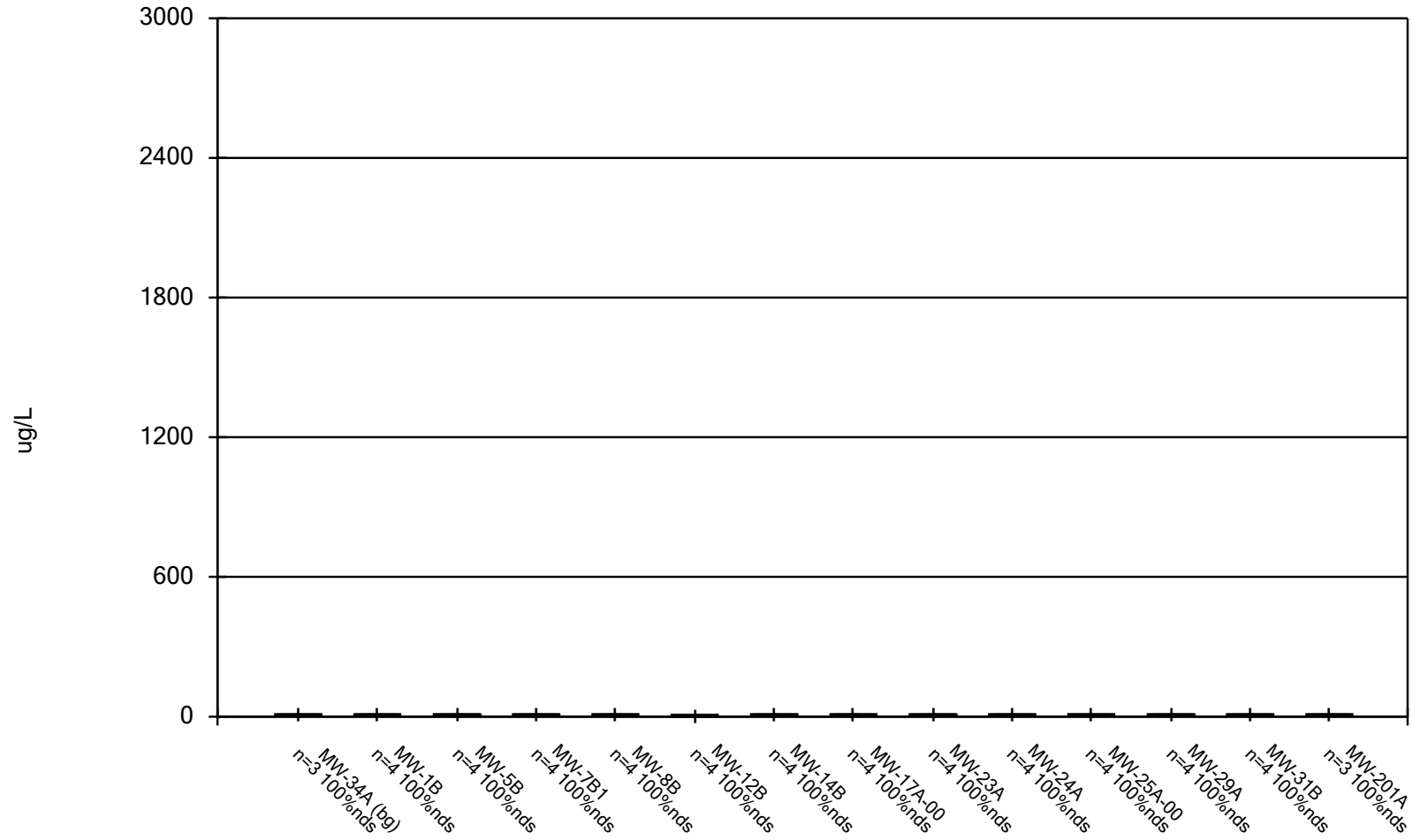
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Isobutanol Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

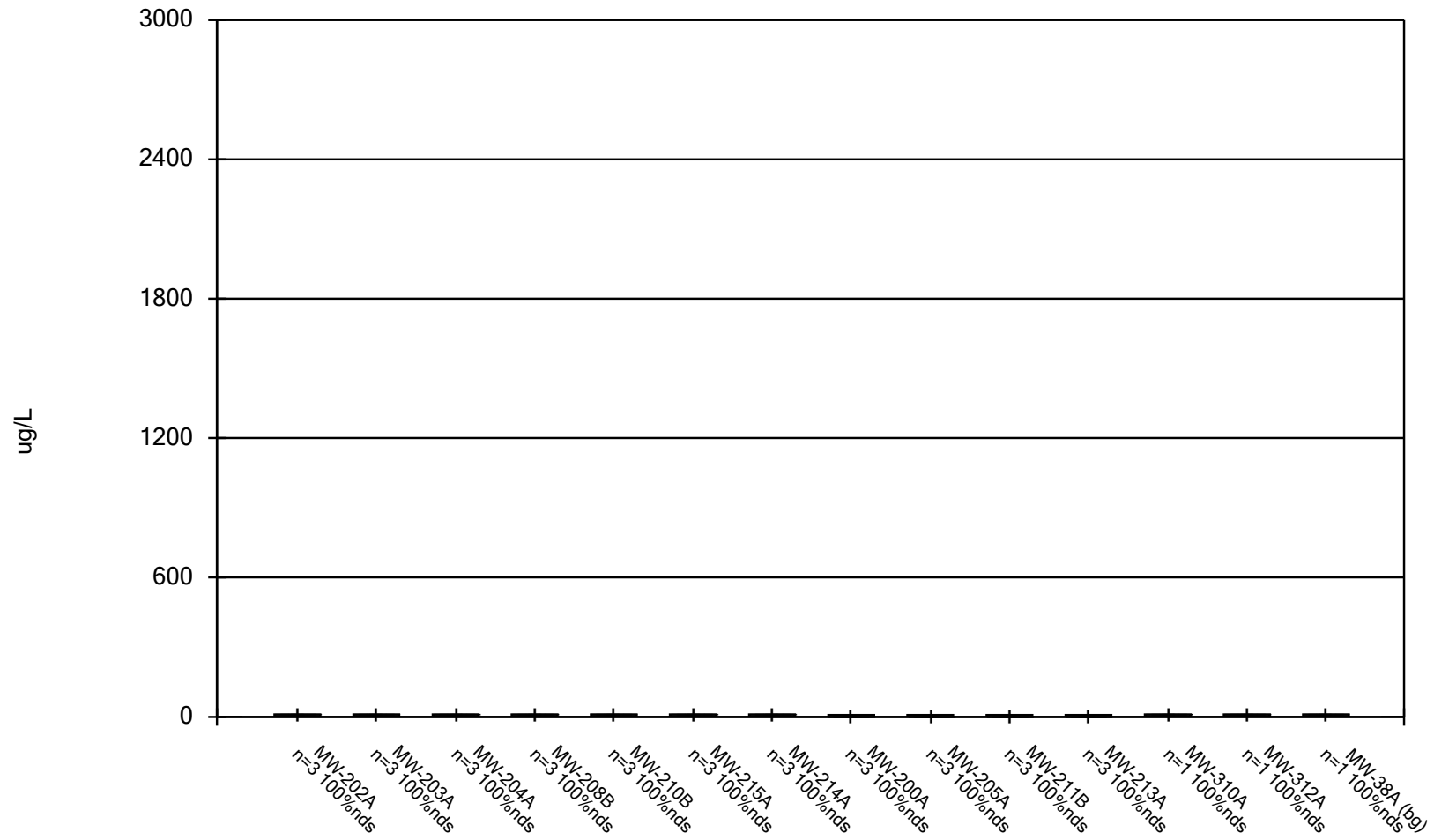
Box & Whiskers Plot



Constituent: m/p-Cresol Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

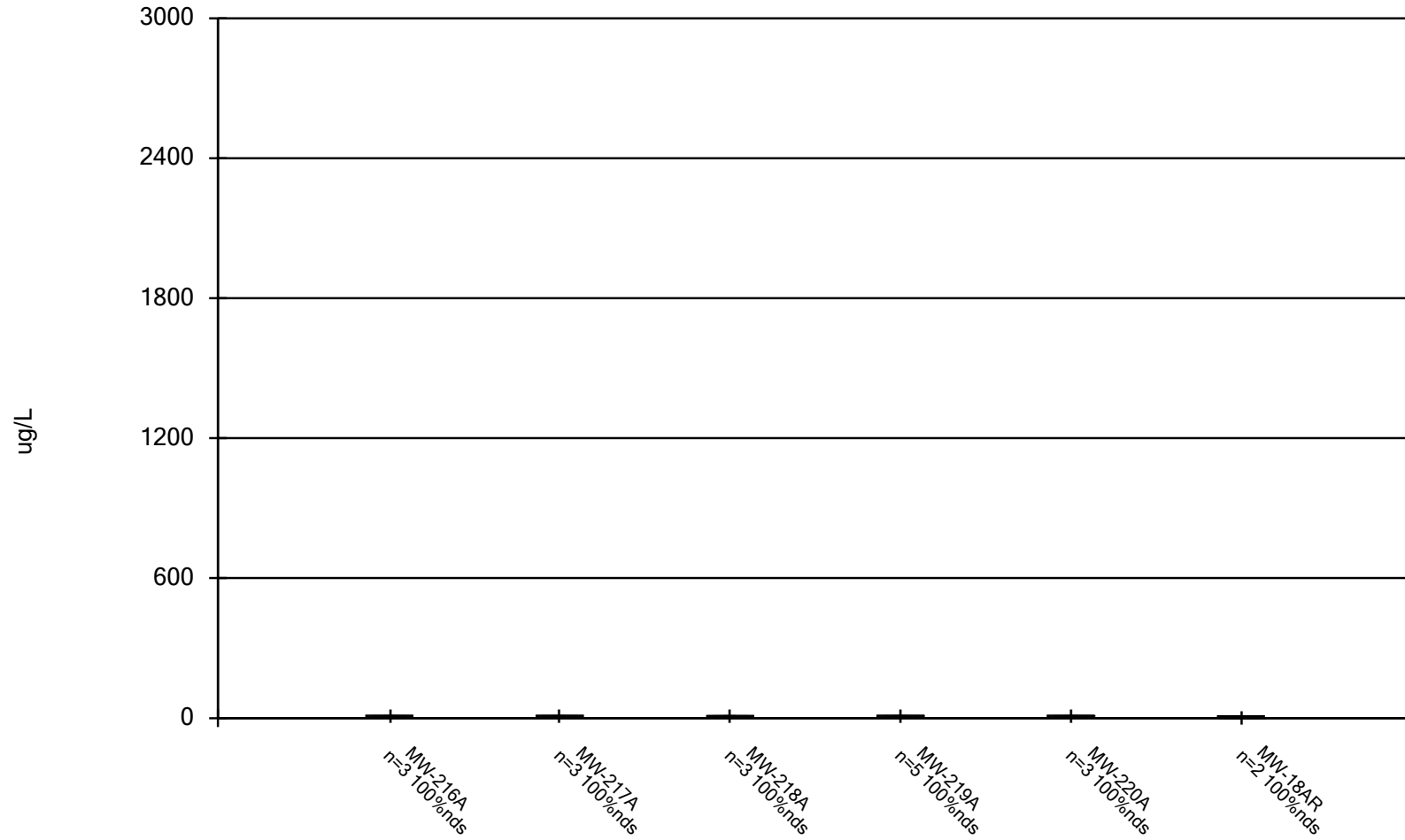
Box & Whiskers Plot



Constituent: m/p-Cresol Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

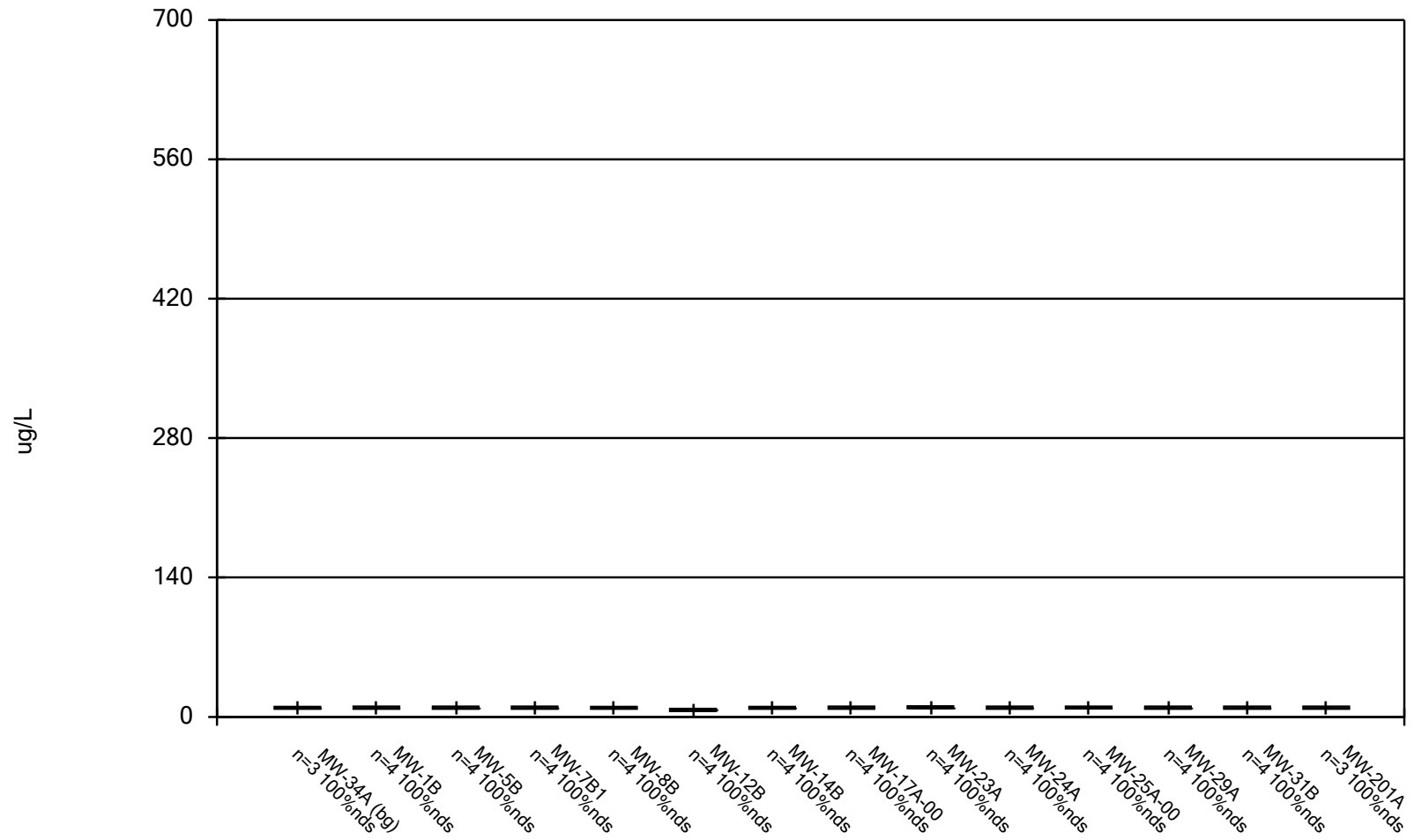
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: m/p-Cresol Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

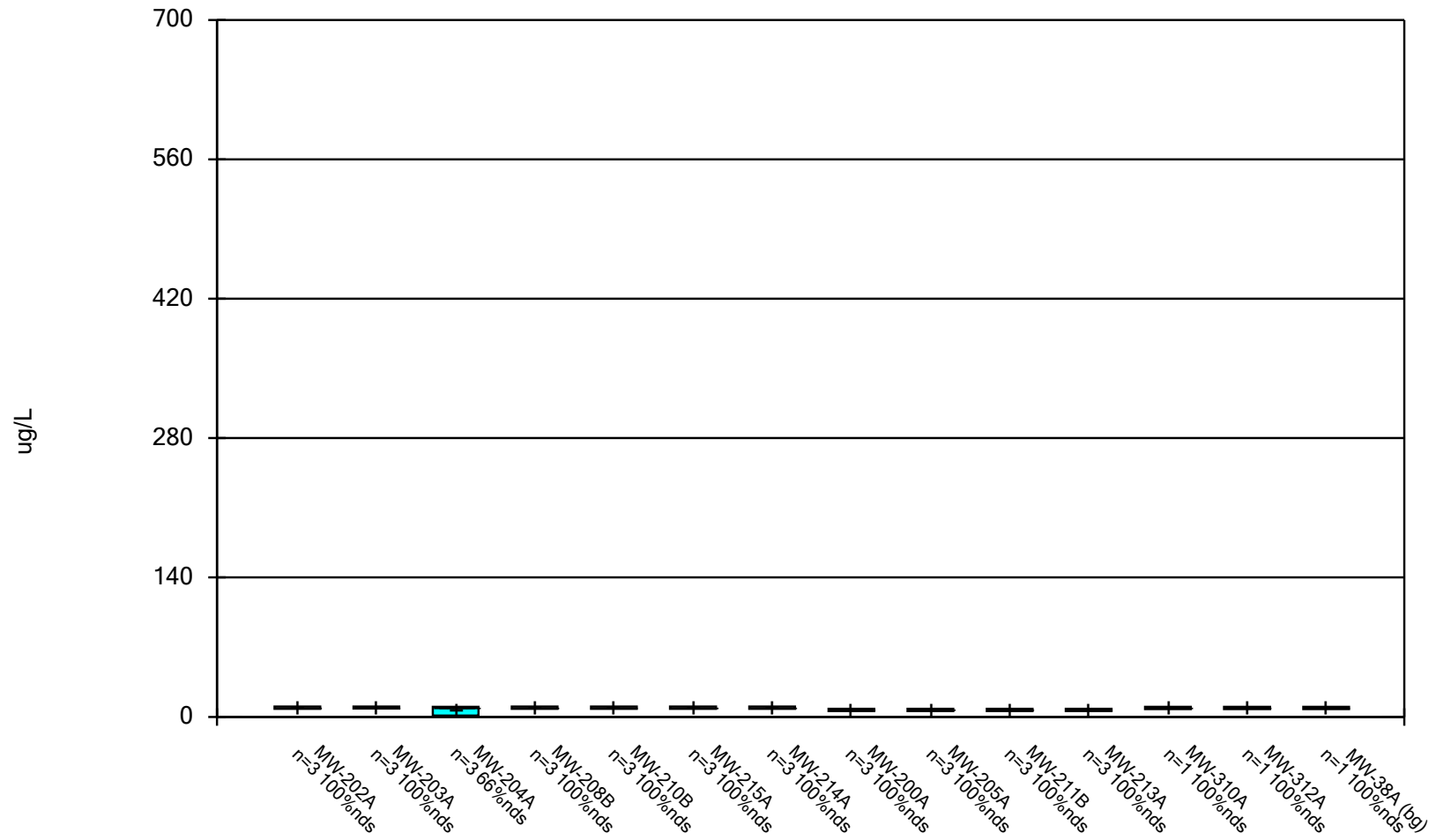
Box & Whiskers Plot



Constituent: O-Toluidine Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

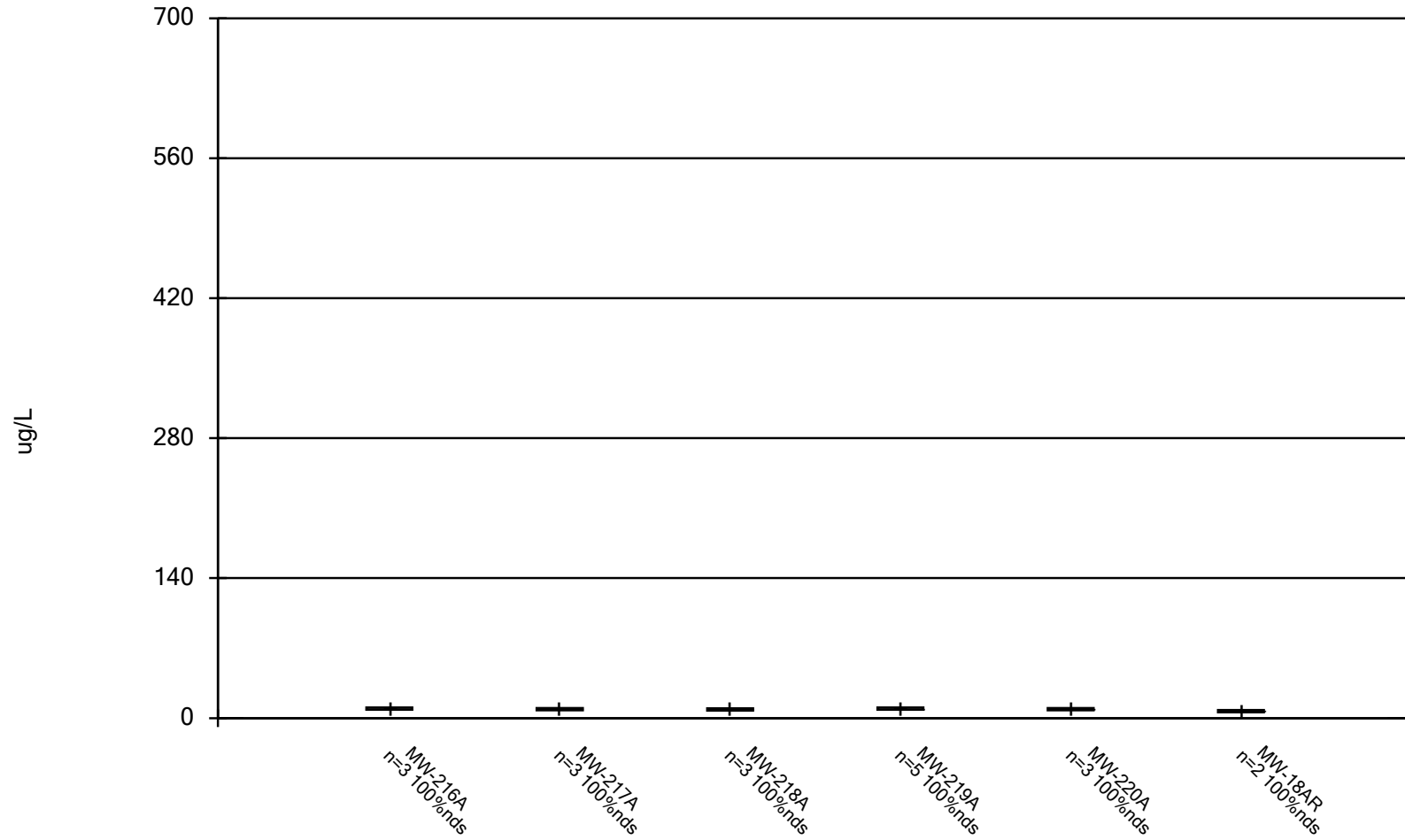
Box & Whiskers Plot



Constituent: O-Toluidine Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

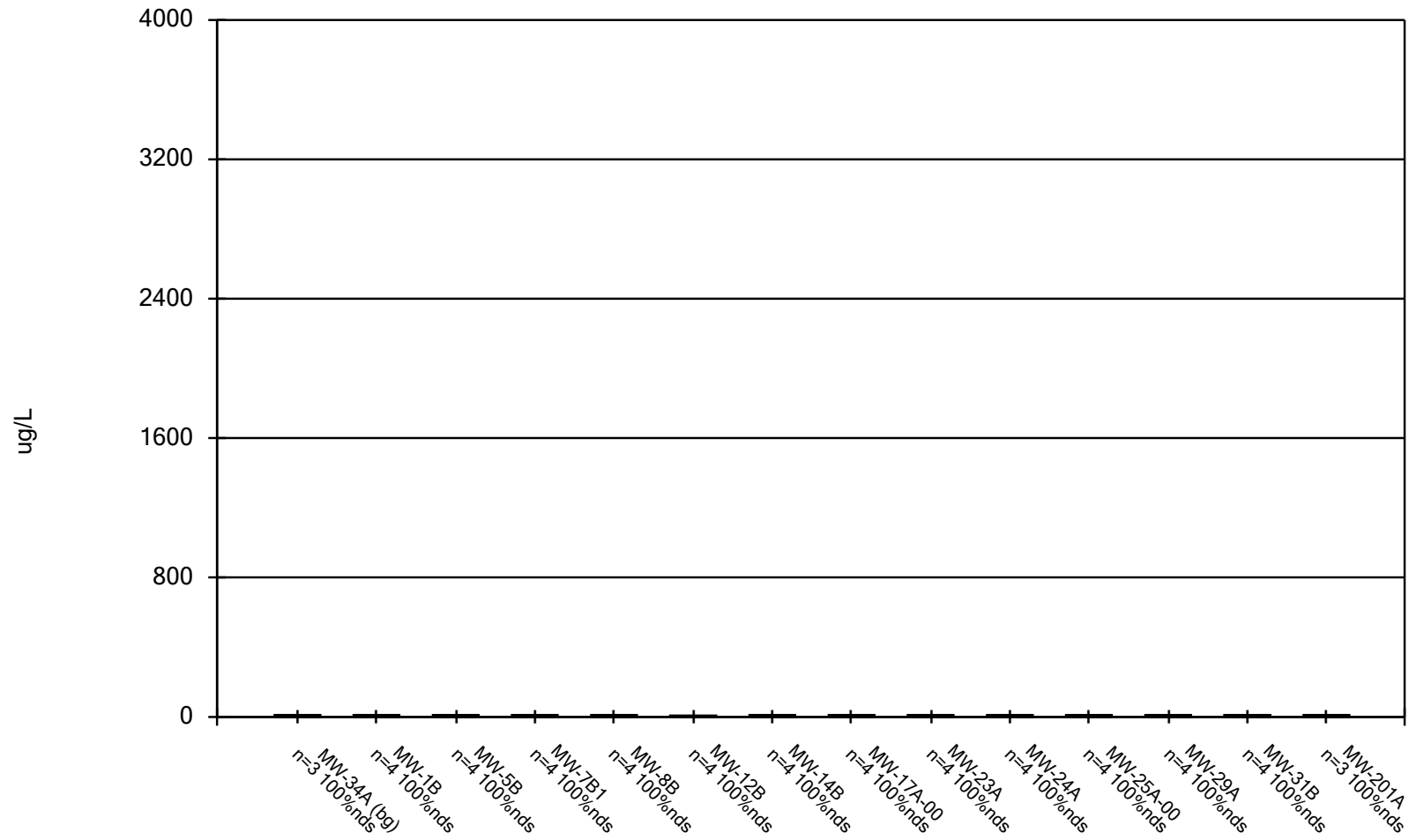
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: O-Toluidine Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

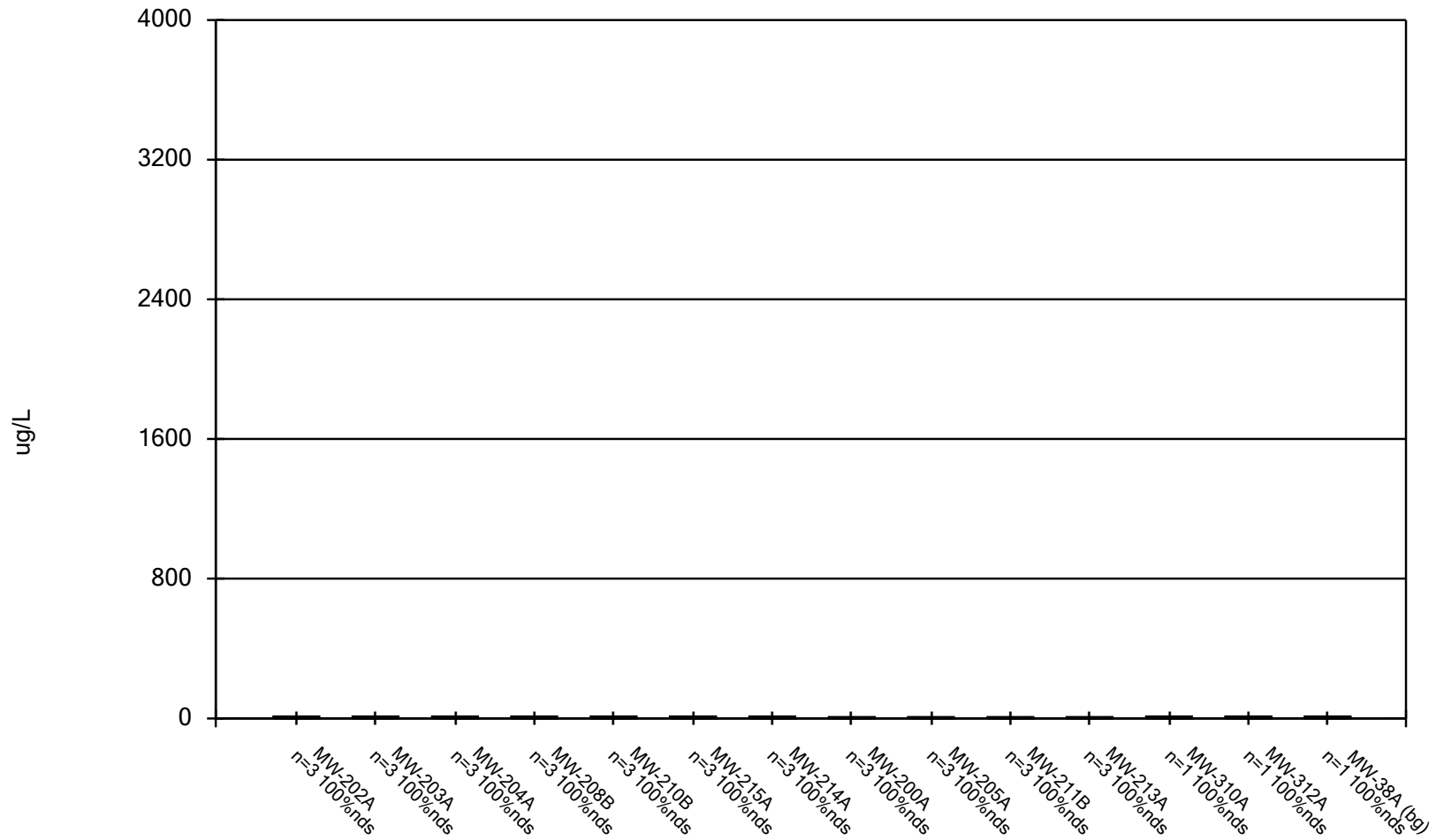
Box & Whiskers Plot



Constituent: Phenol Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

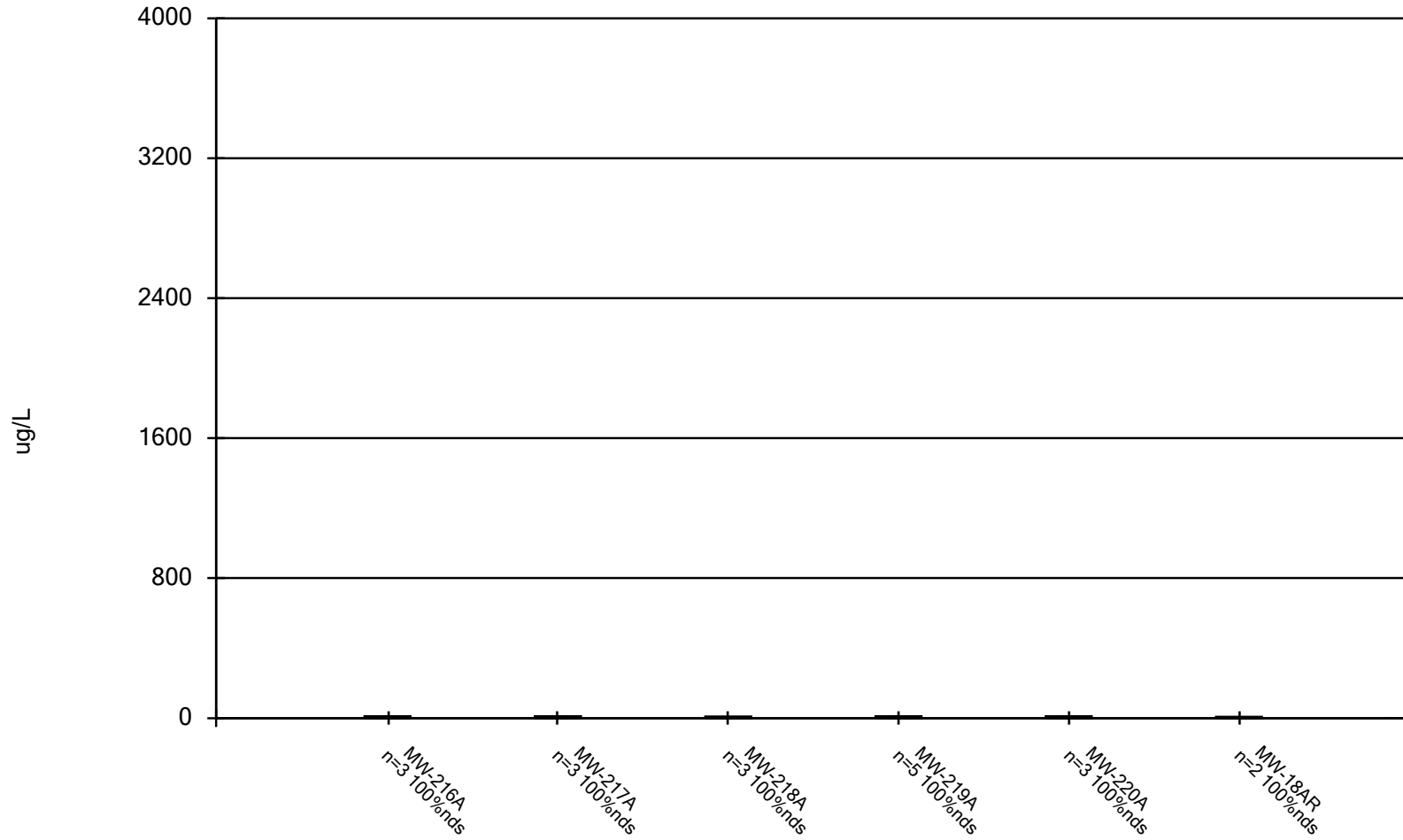
Box & Whiskers Plot



Constituent: Phenol Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

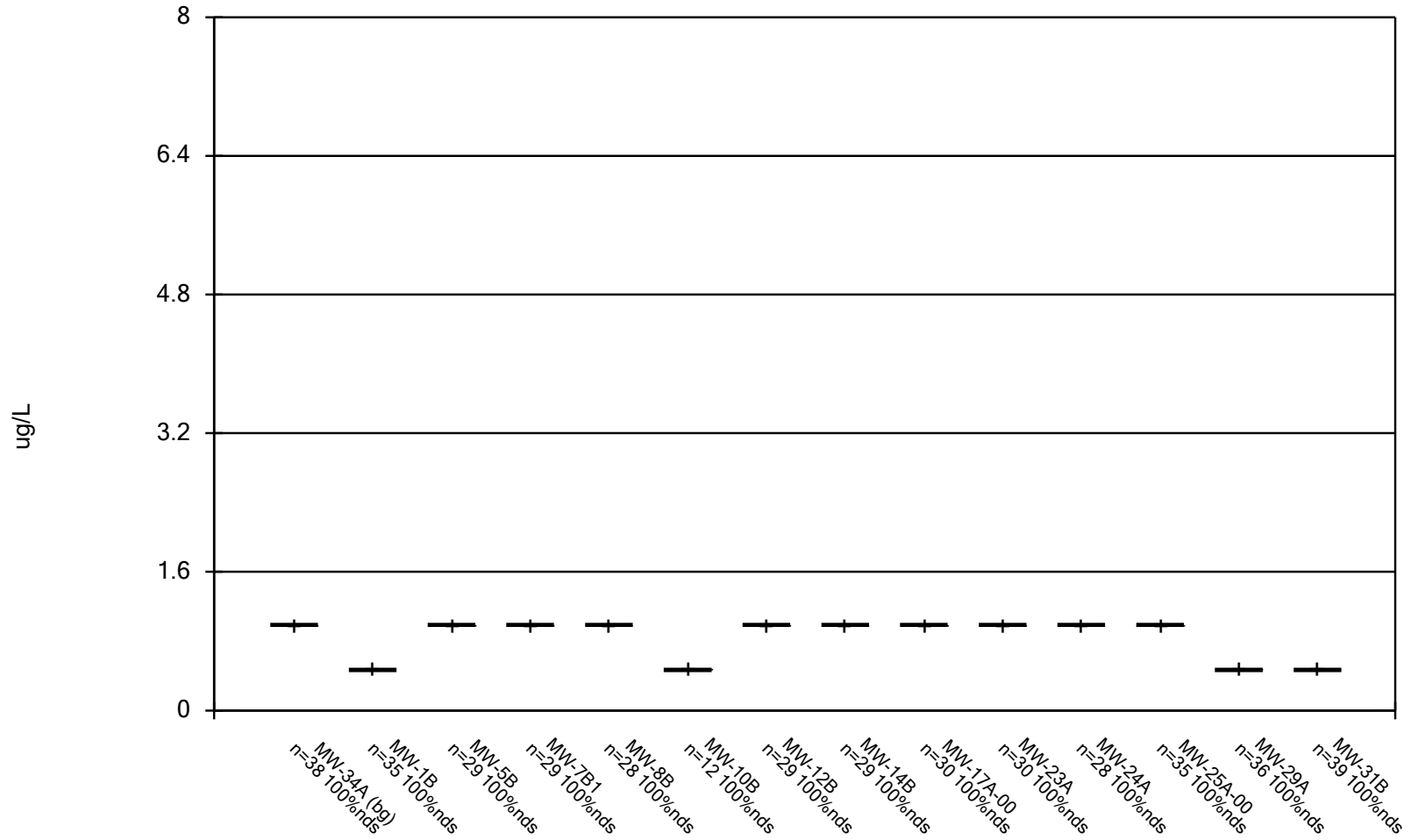
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



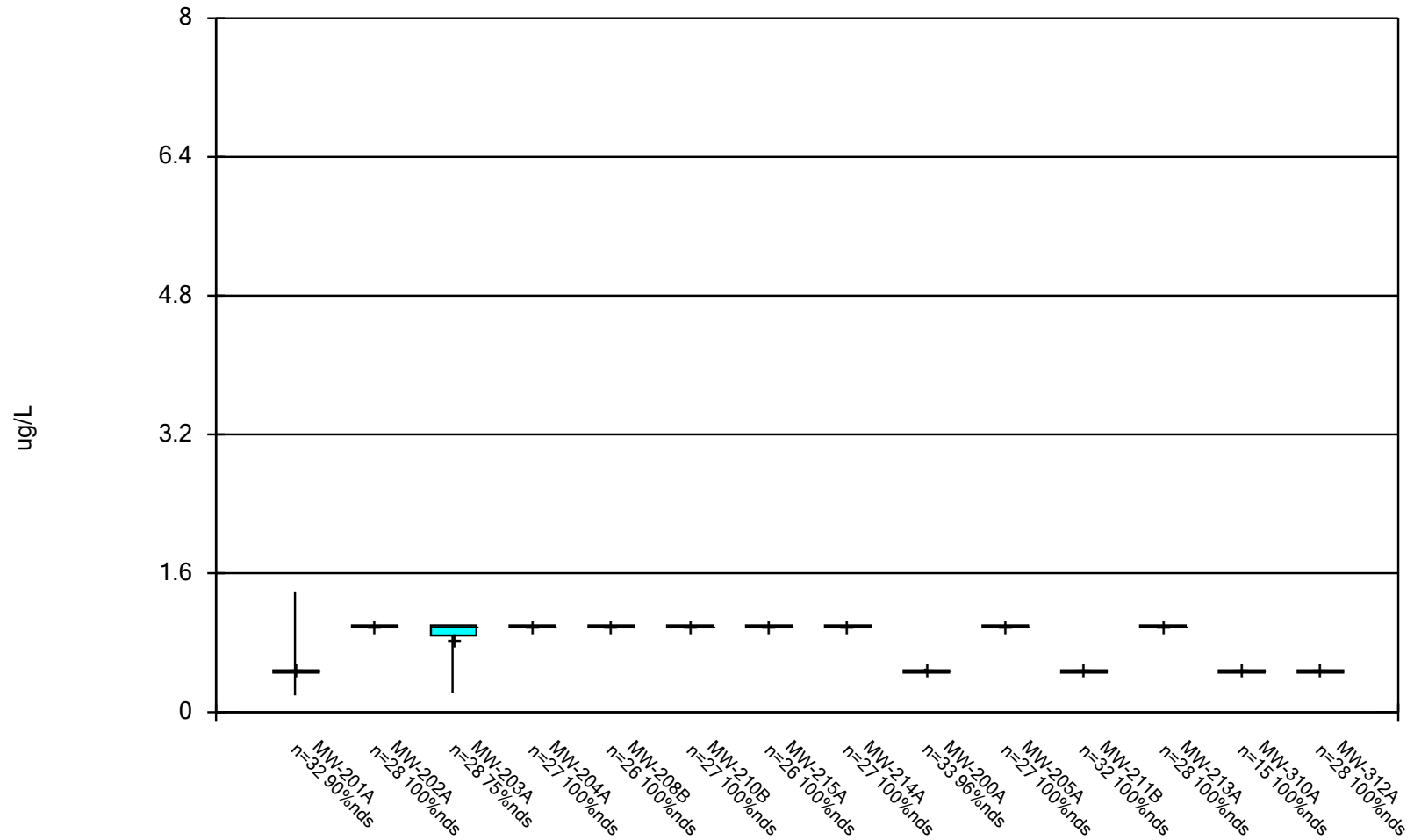
Constituent: Phenol Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



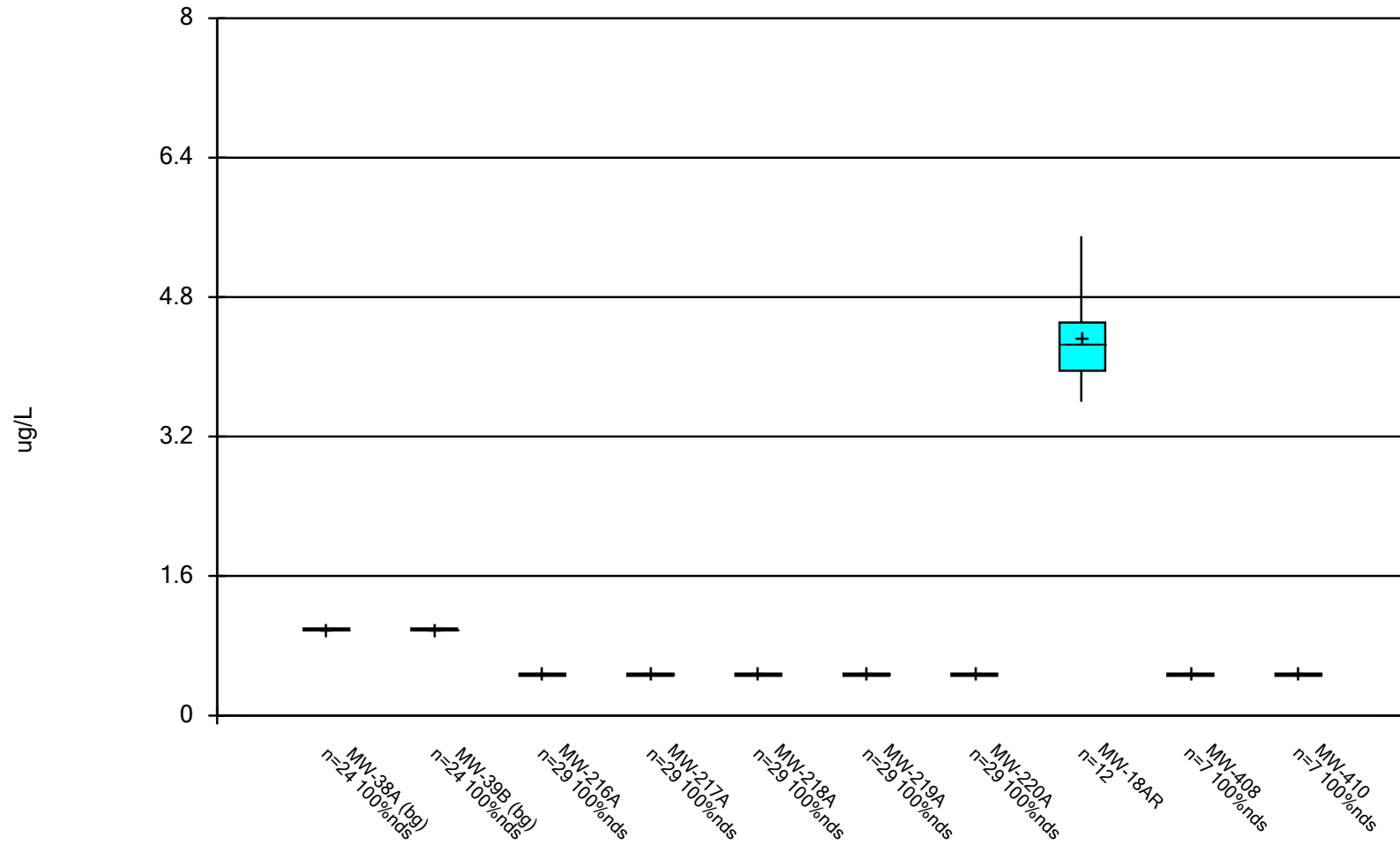
Constituent: Tetrachloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



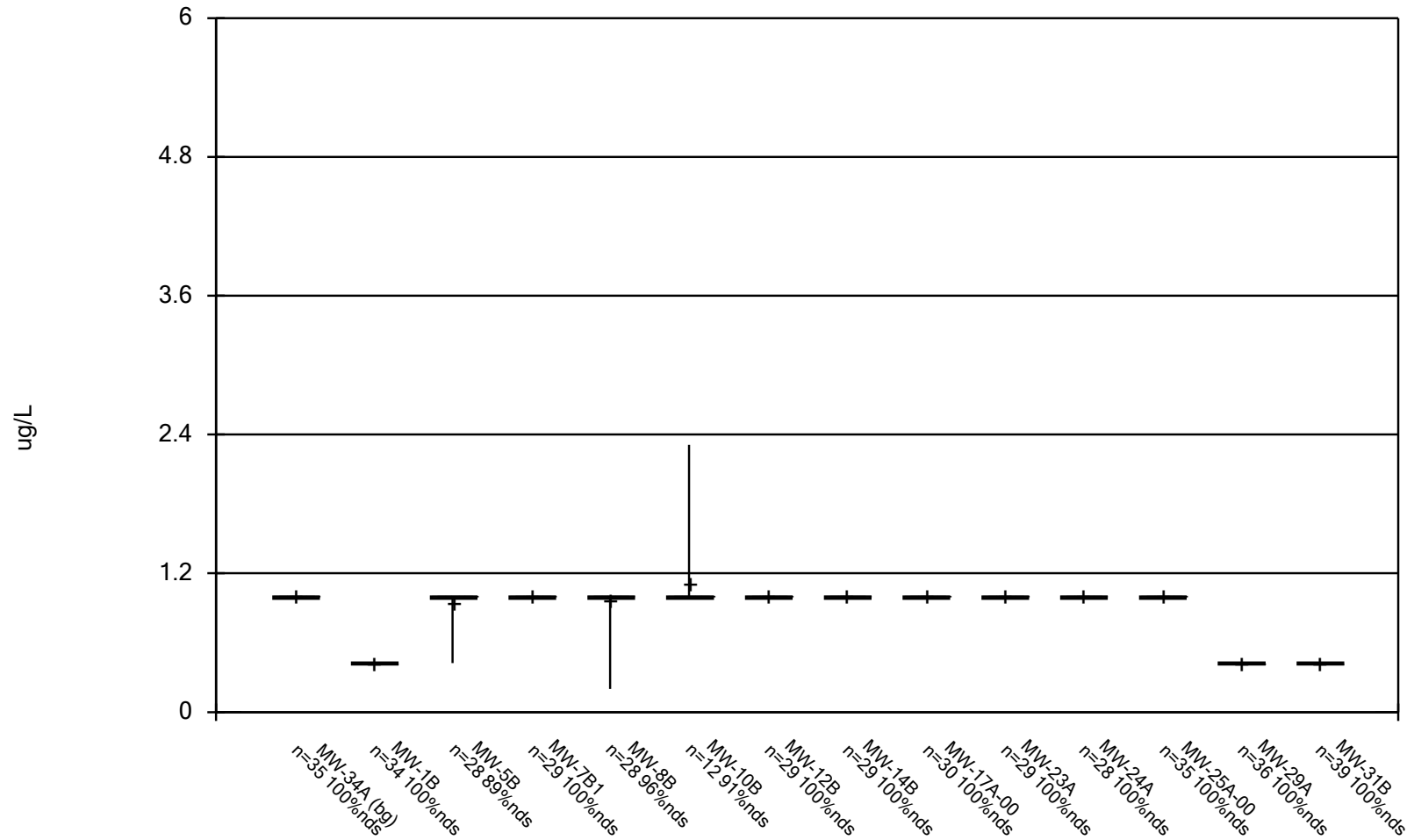
Constituent: Tetrachloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Tetrachloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

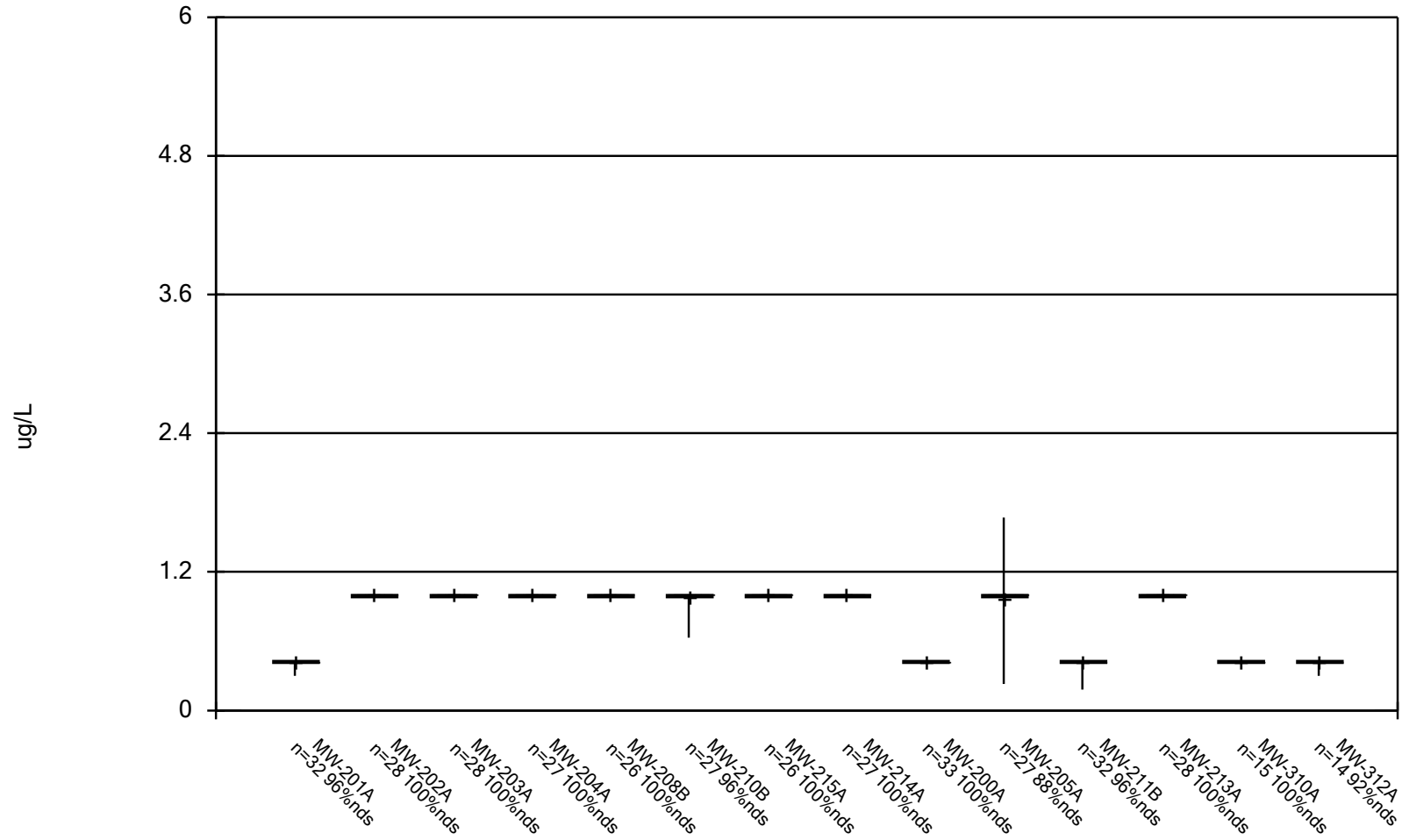
Box & Whiskers Plot



Constituent: Toluene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

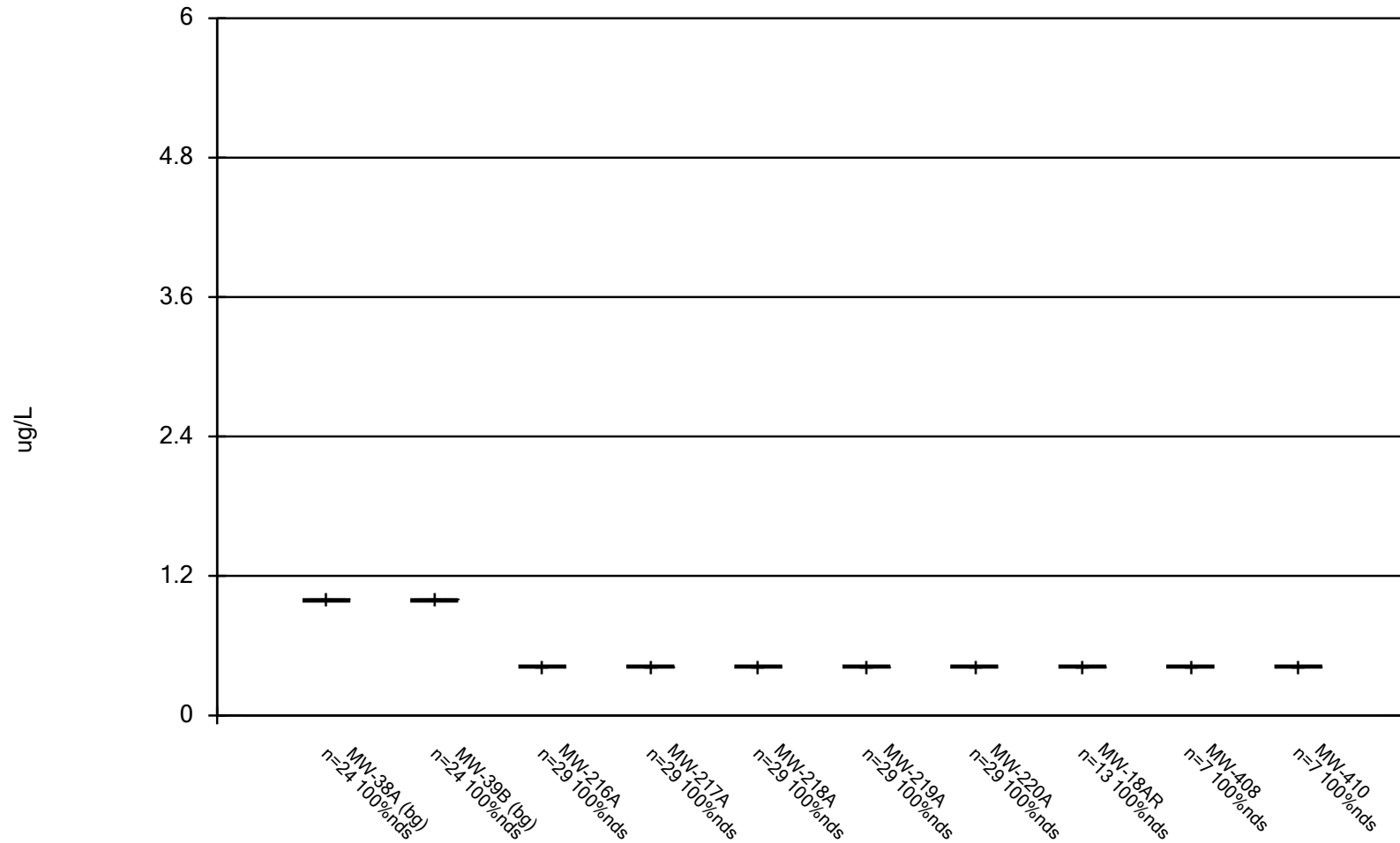
Box & Whiskers Plot



Constituent: Toluene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

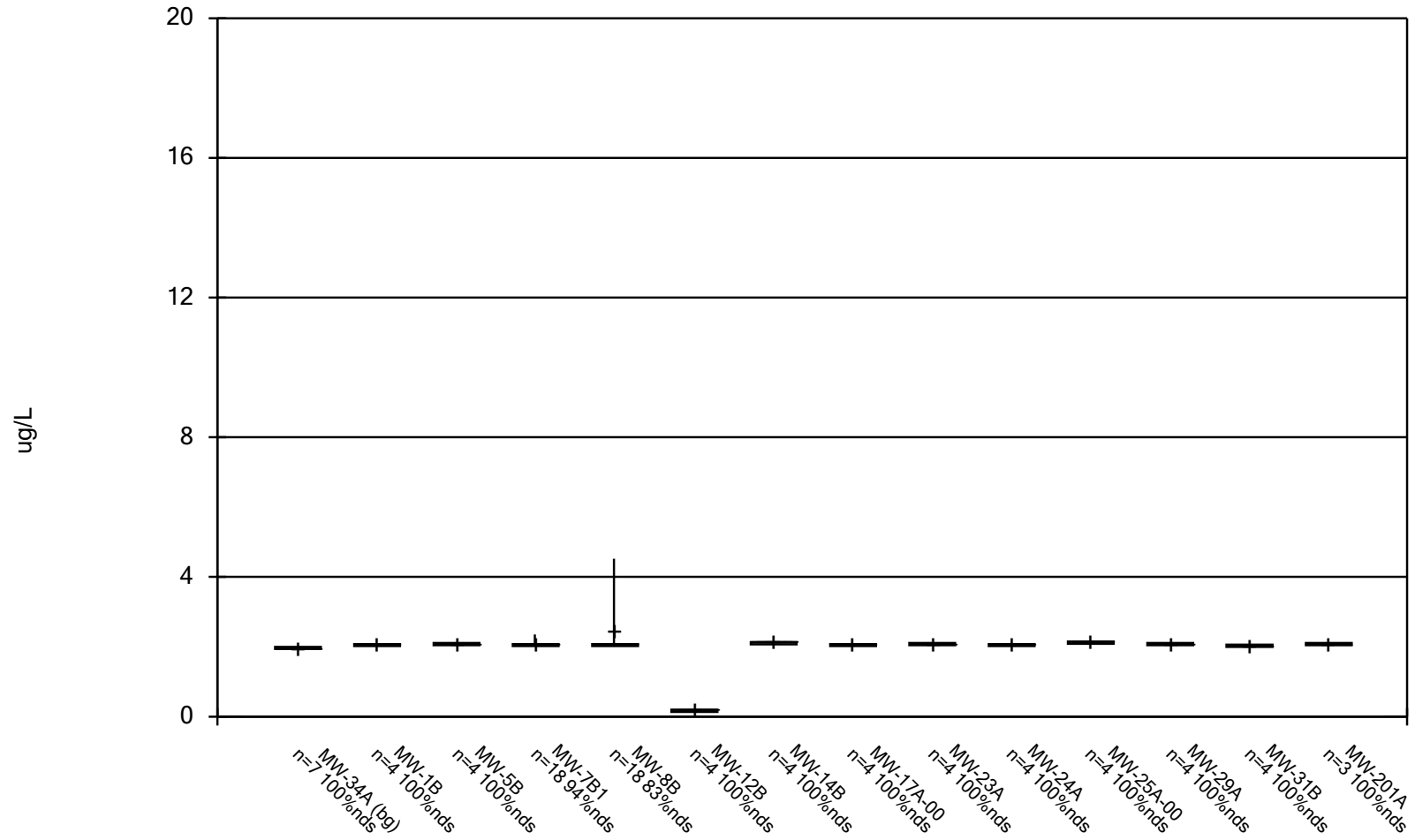
Box & Whiskers Plot



Constituent: Toluene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

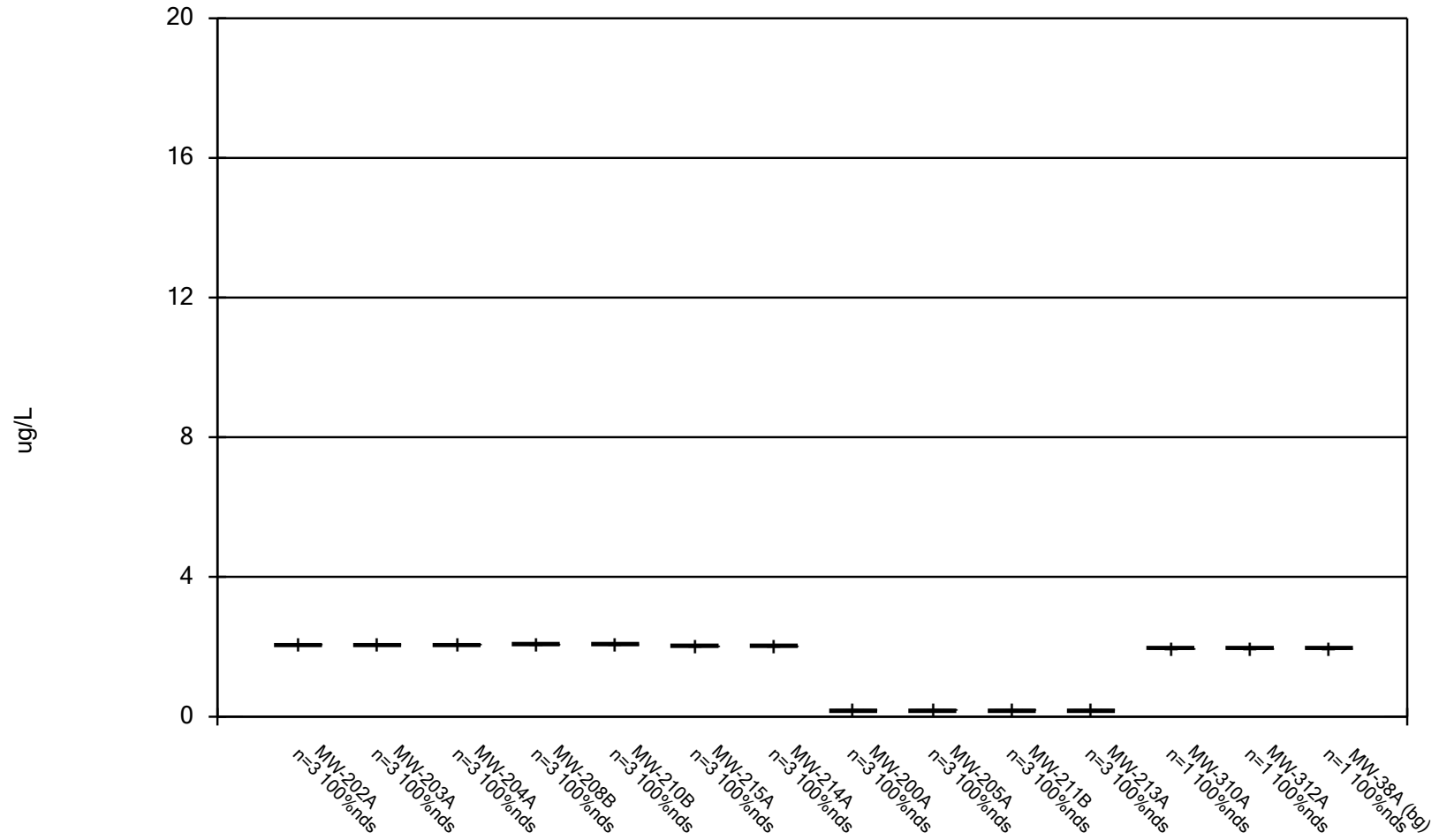
Box & Whiskers Plot



Constituent: Toxaphene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

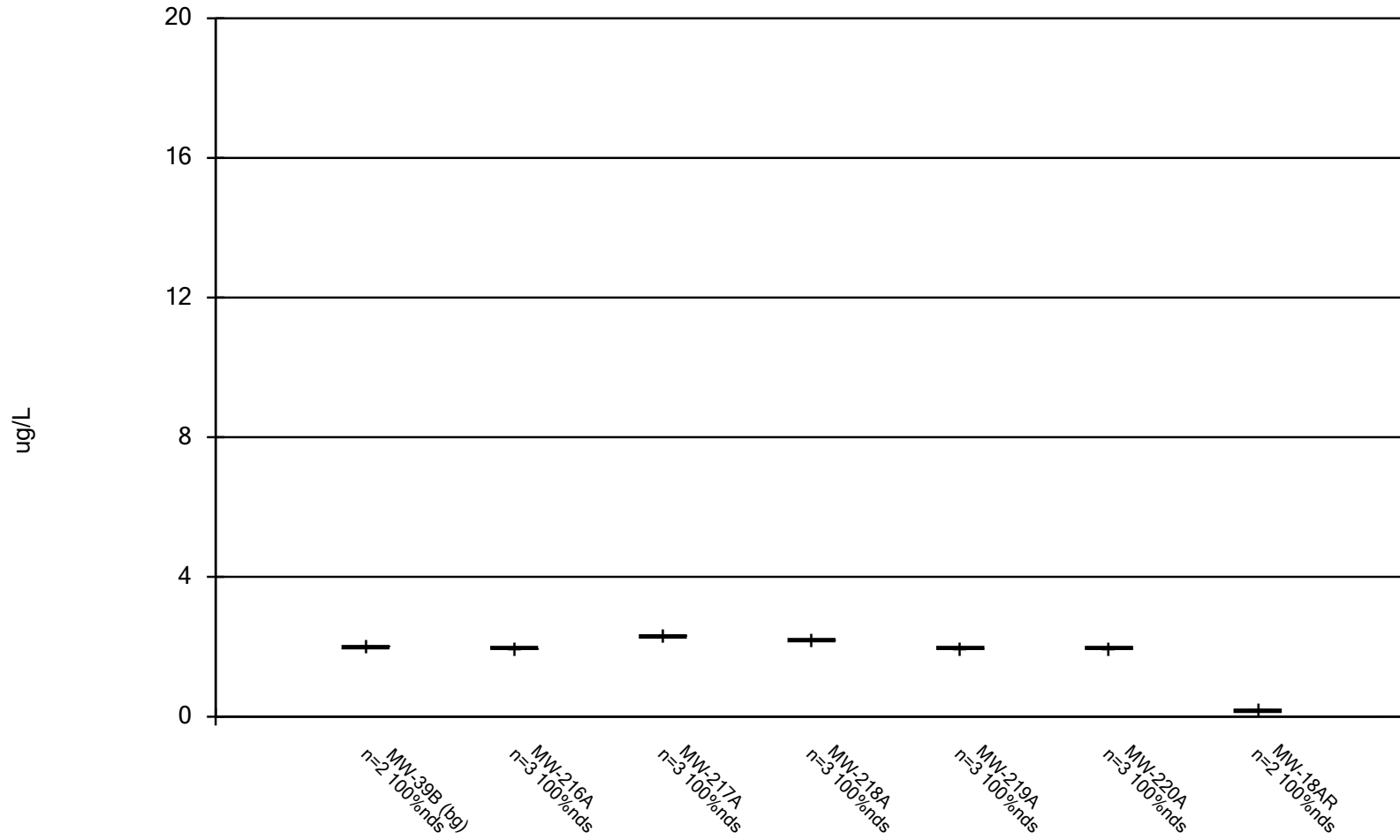
Box & Whiskers Plot



Constituent: Toxaphene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

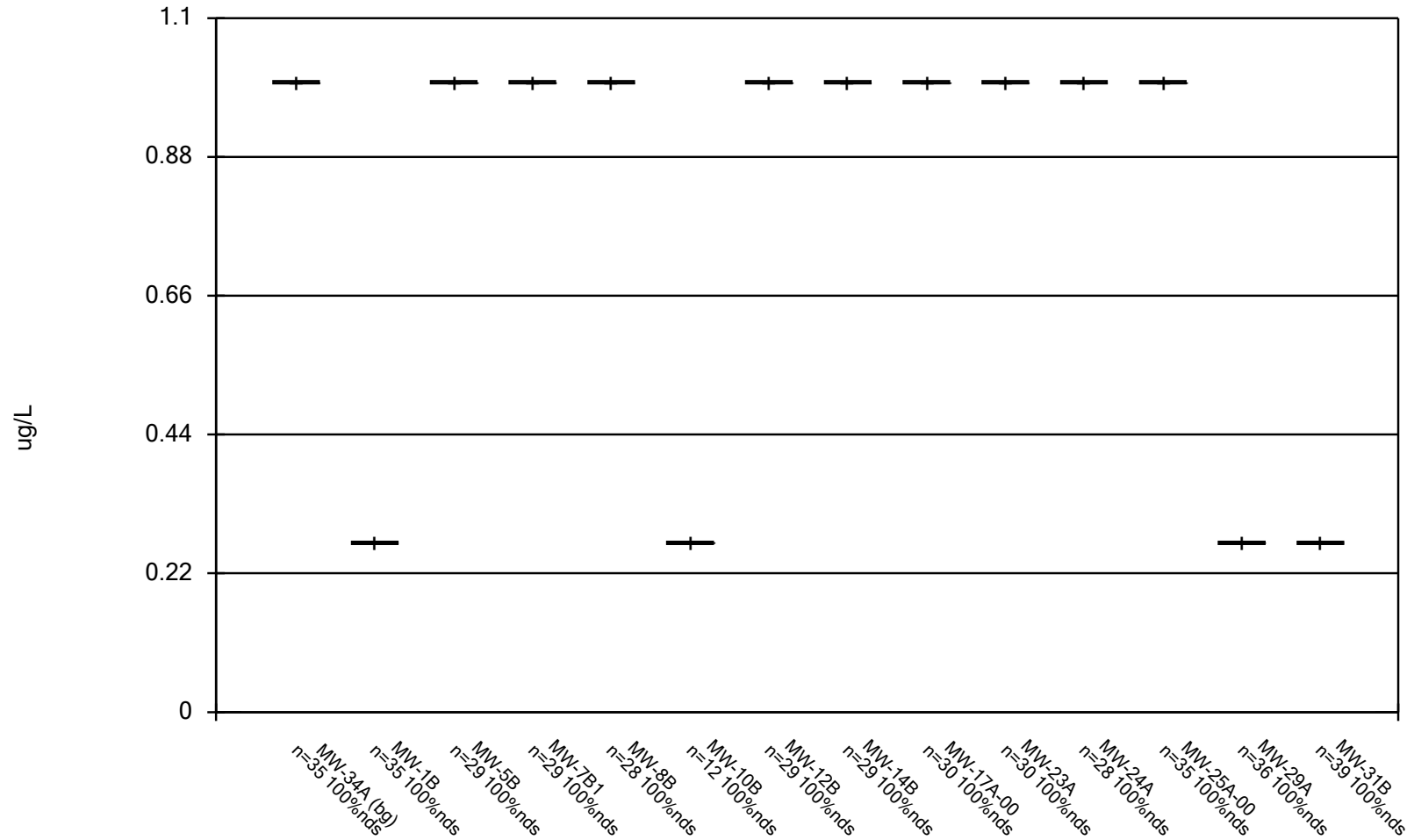
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



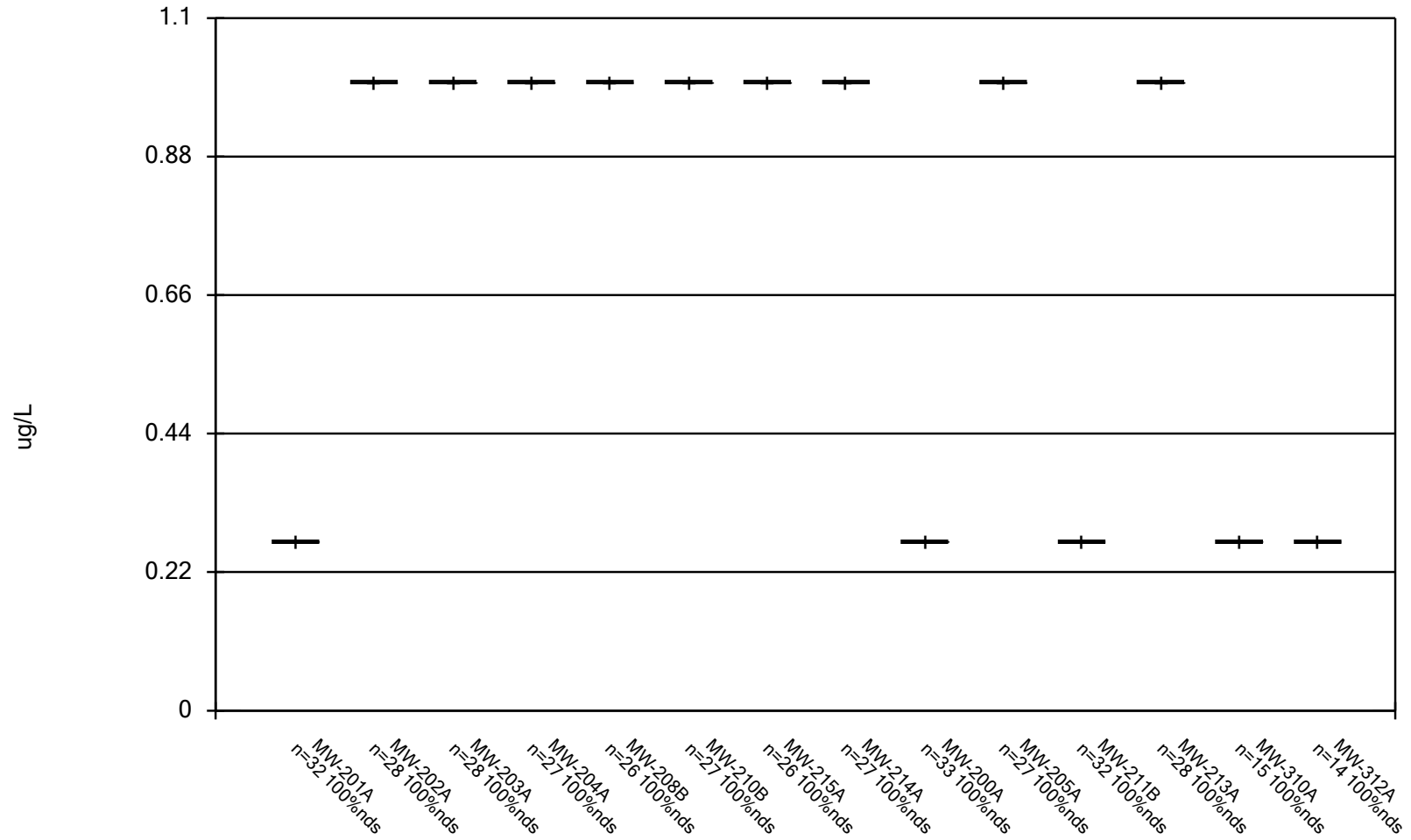
Constituent: Toxaphene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



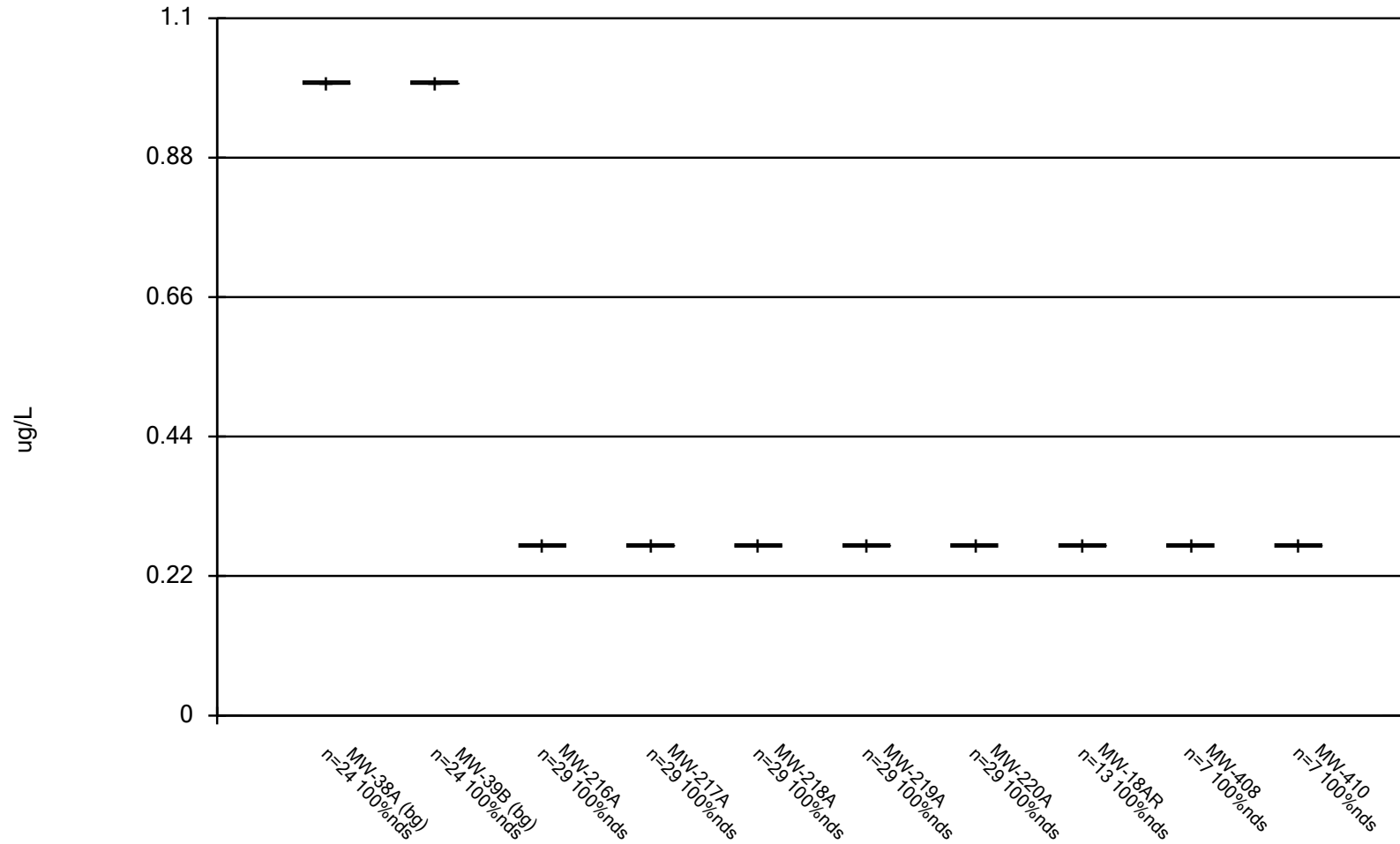
Constituent: trans-1,2-Dichloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



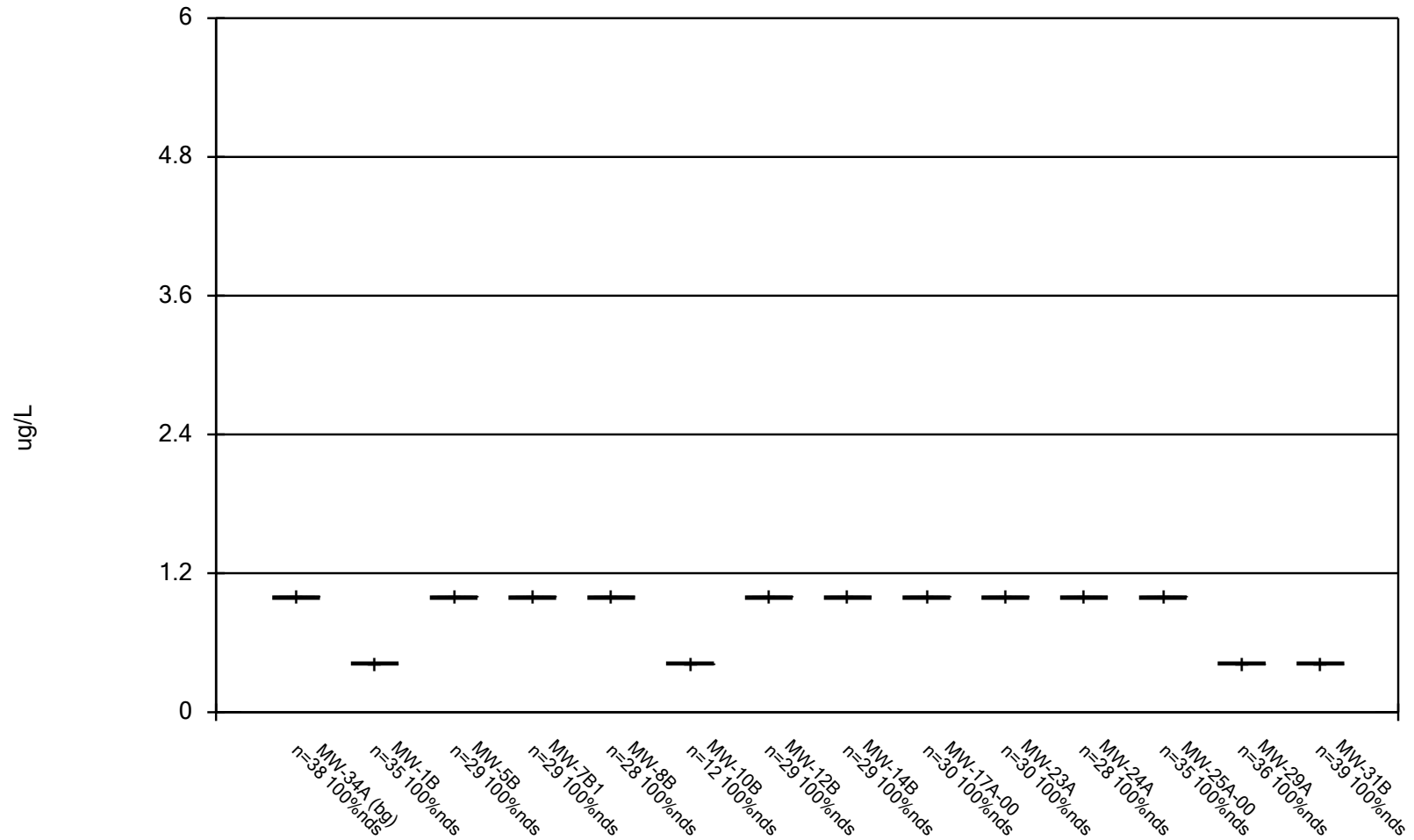
Constituent: trans-1,2-Dichloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: trans-1,2-Dichloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

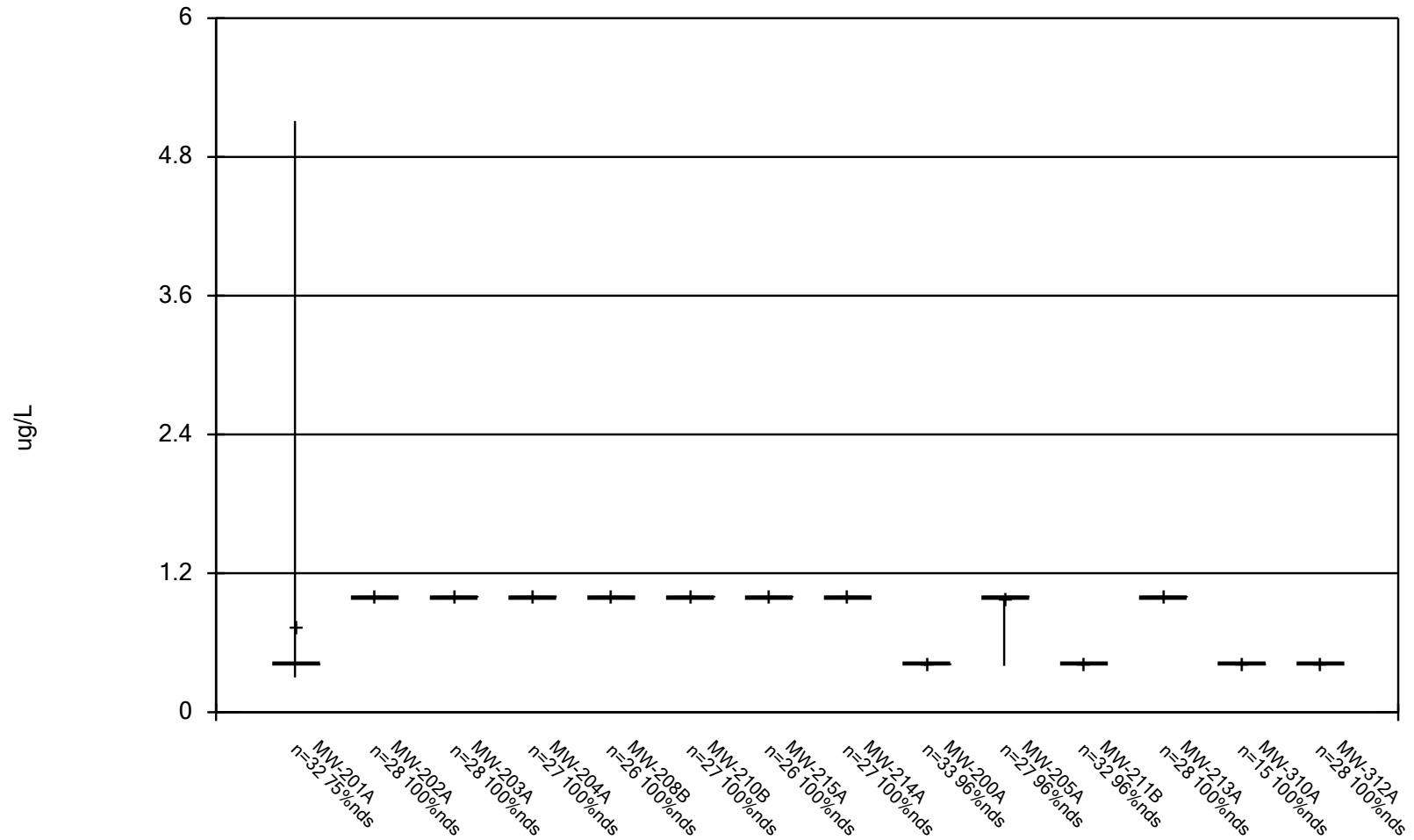
Box & Whiskers Plot



Constituent: Trichloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

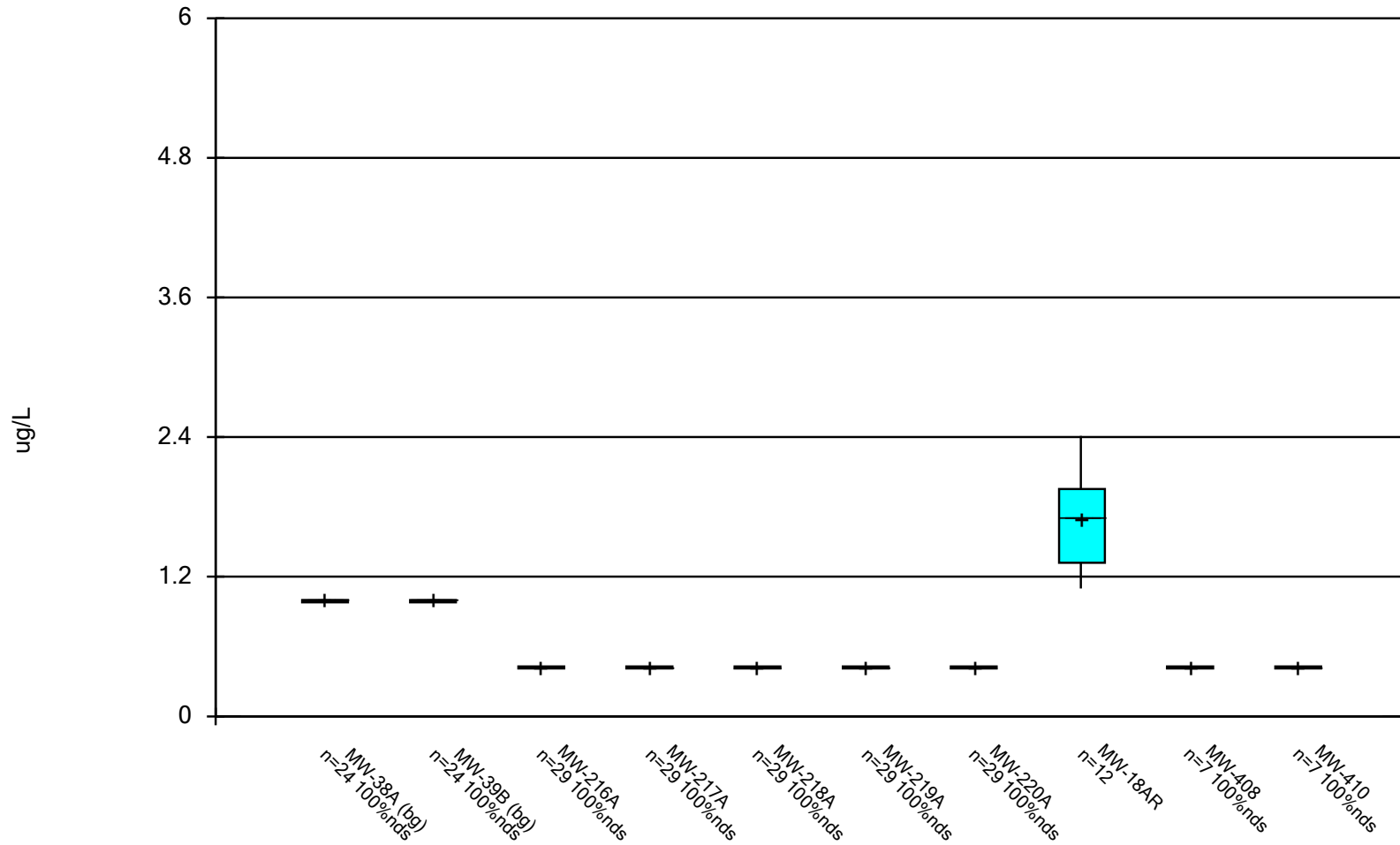
Box & Whiskers Plot



Constituent: Trichloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

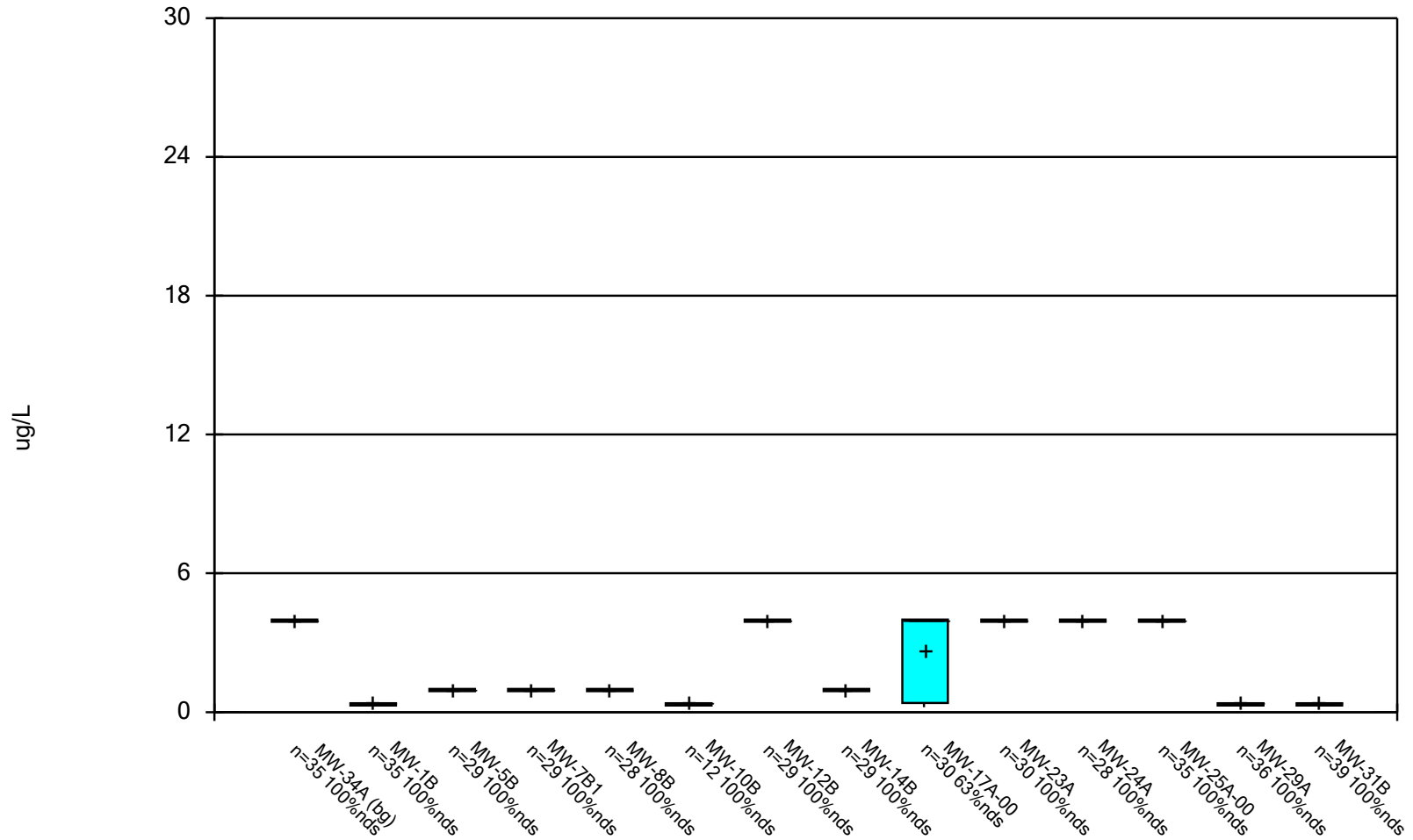
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Trichloroethene Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

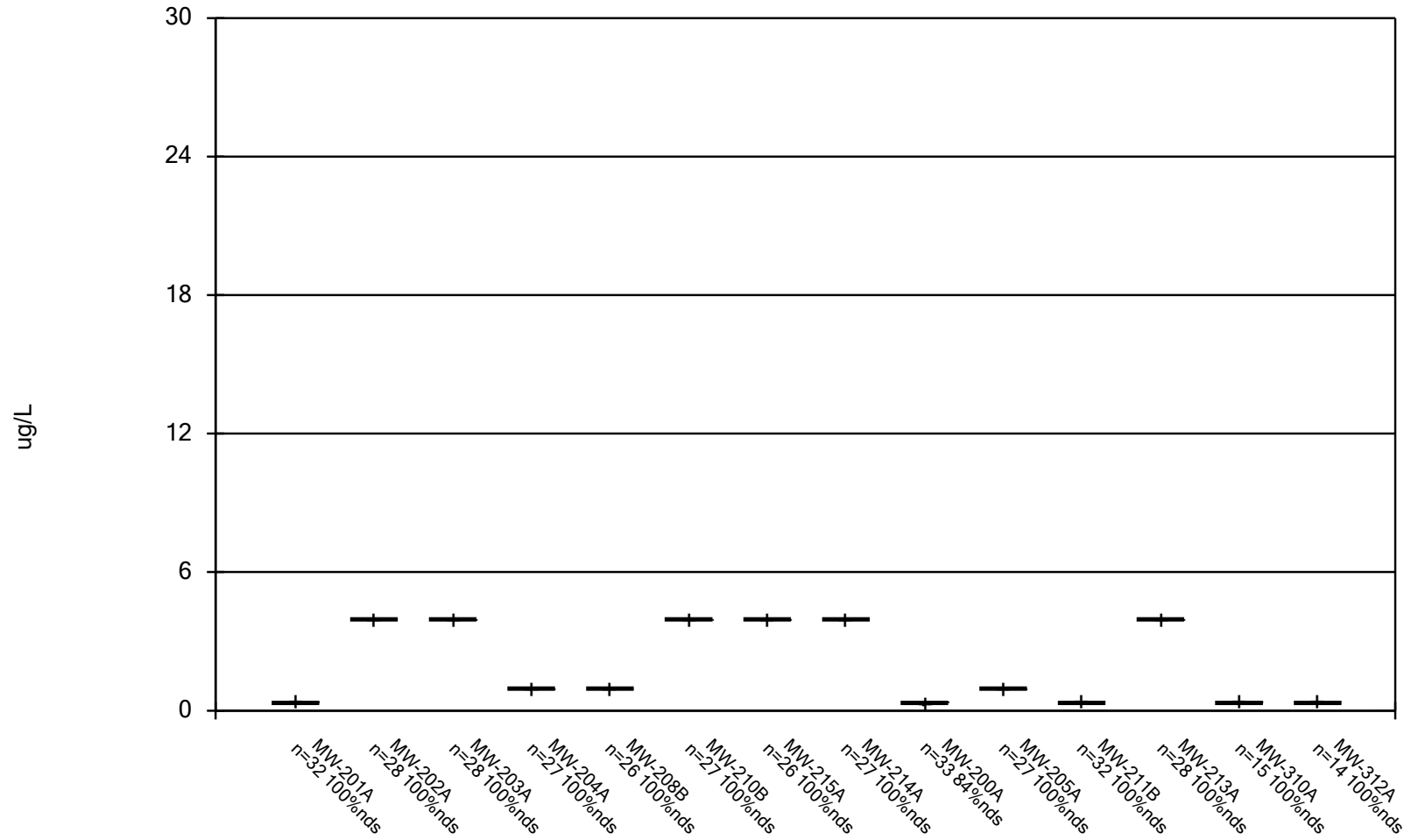
Box & Whiskers Plot



Constituent: Trichlorofluoromethane Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

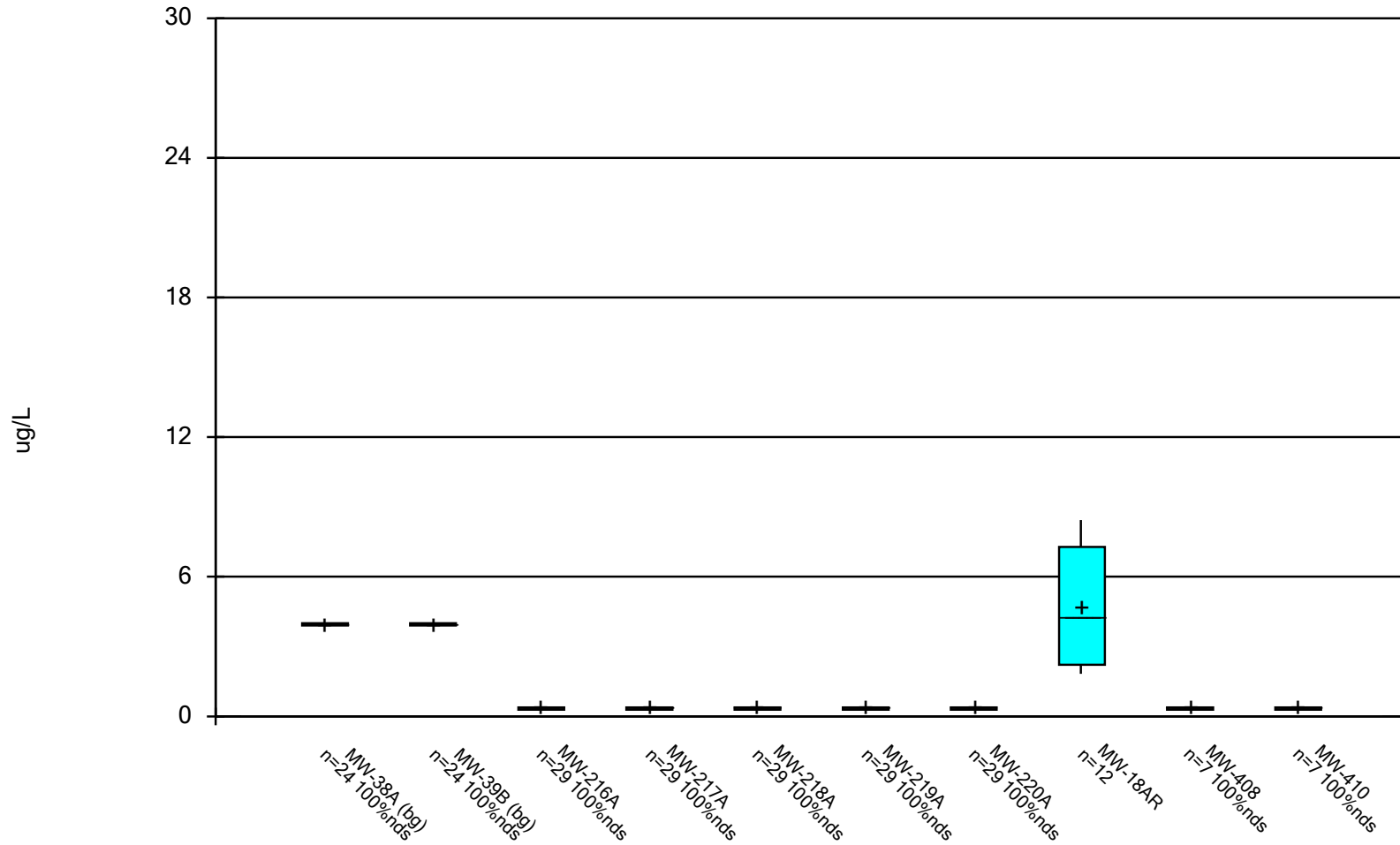
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



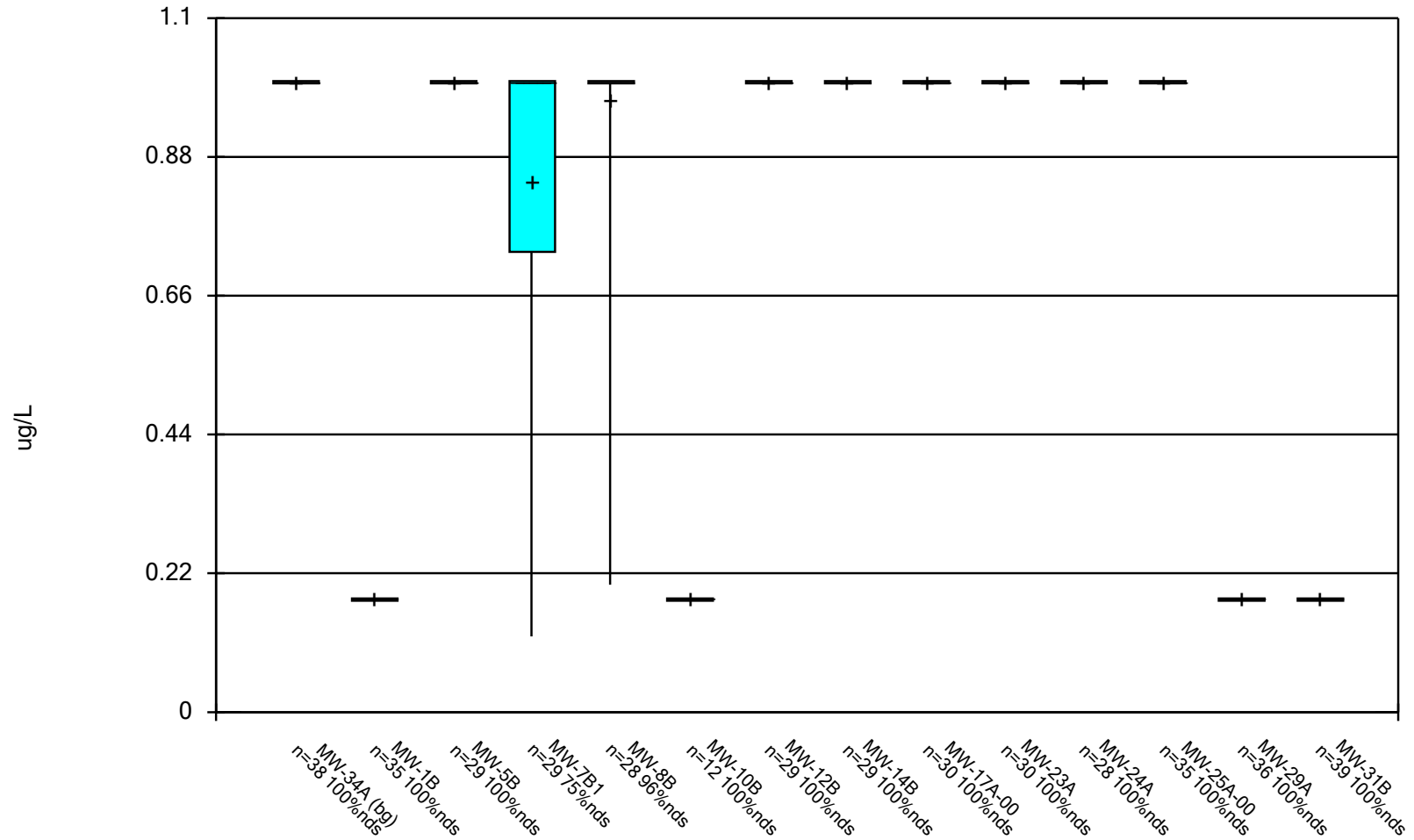
Constituent: Trichlorofluoromethane Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Trichlorofluoromethane Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

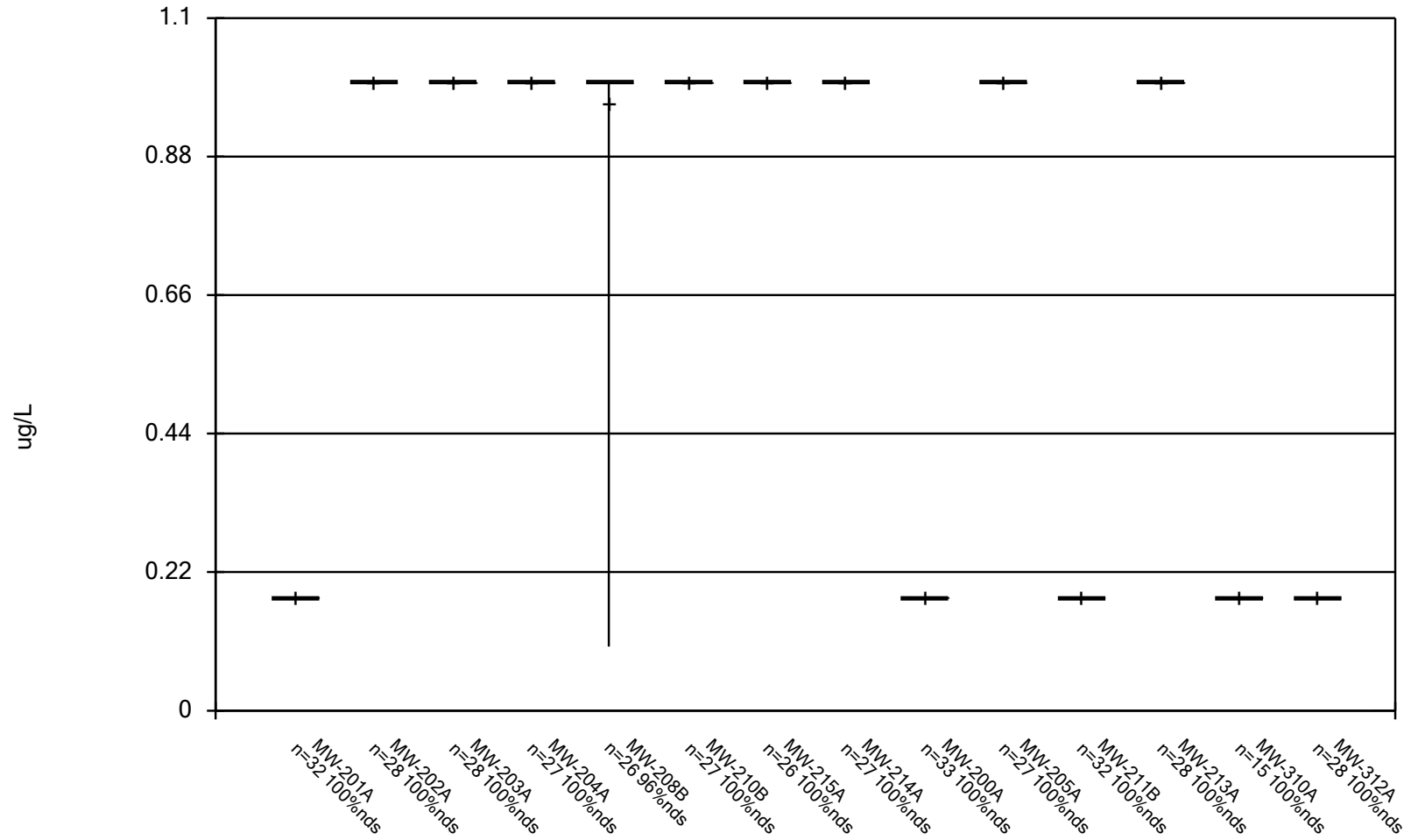
Box & Whiskers Plot



Constituent: Vinyl Chloride Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

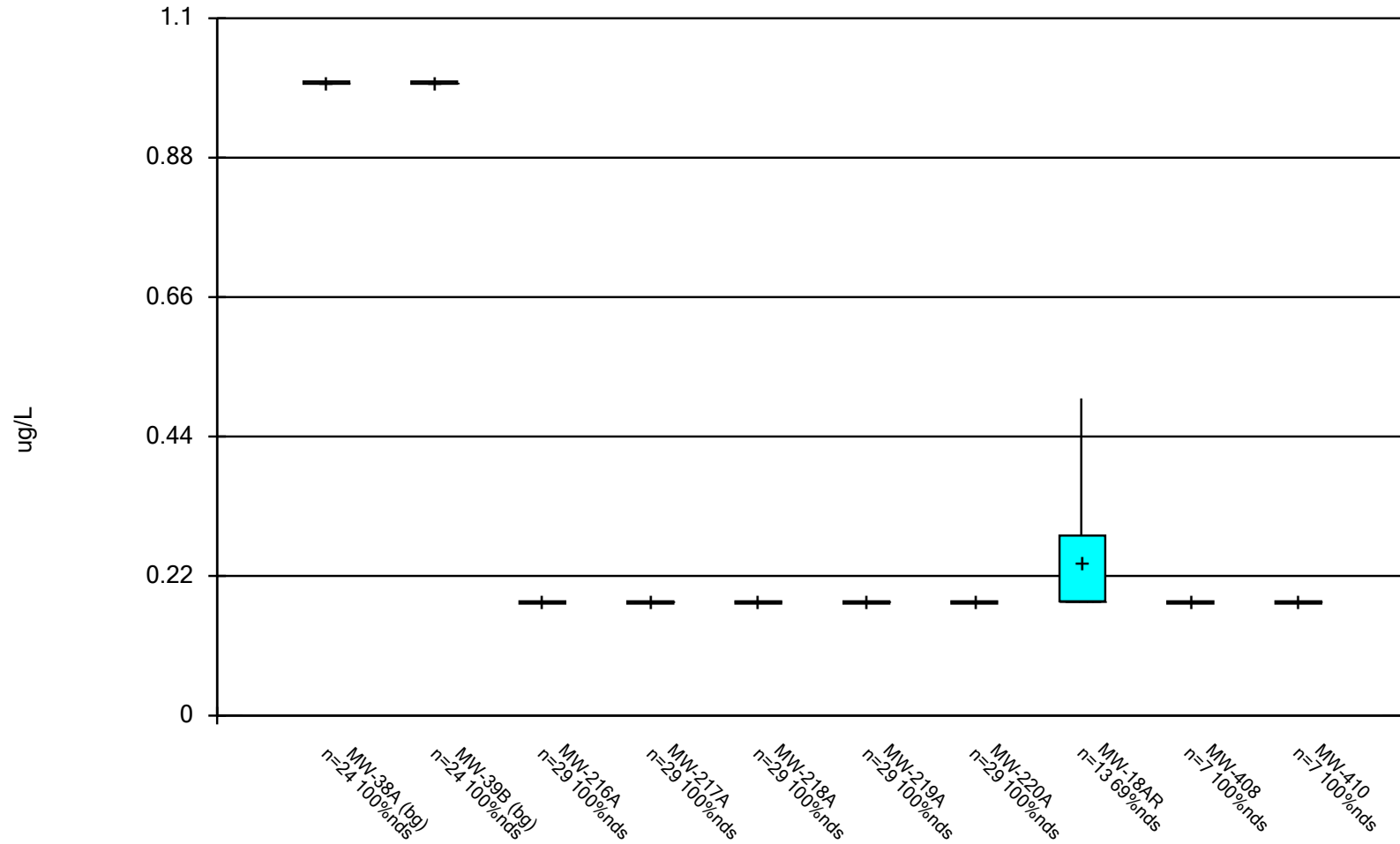
Box & Whiskers Plot



Constituent: Vinyl Chloride Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

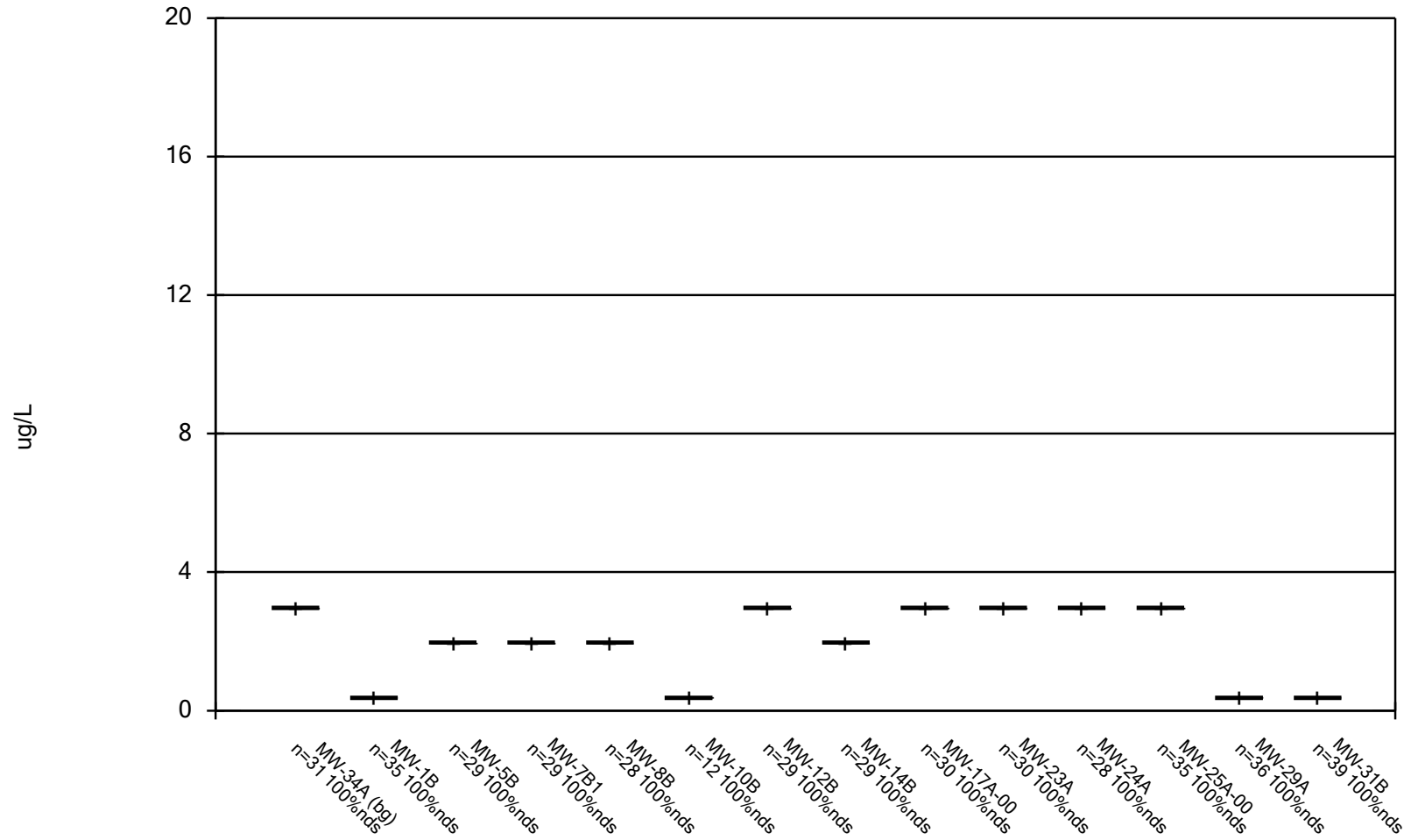
Box & Whiskers Plot



Constituent: Vinyl Chloride Analysis Run 1/21/2025 9:21 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

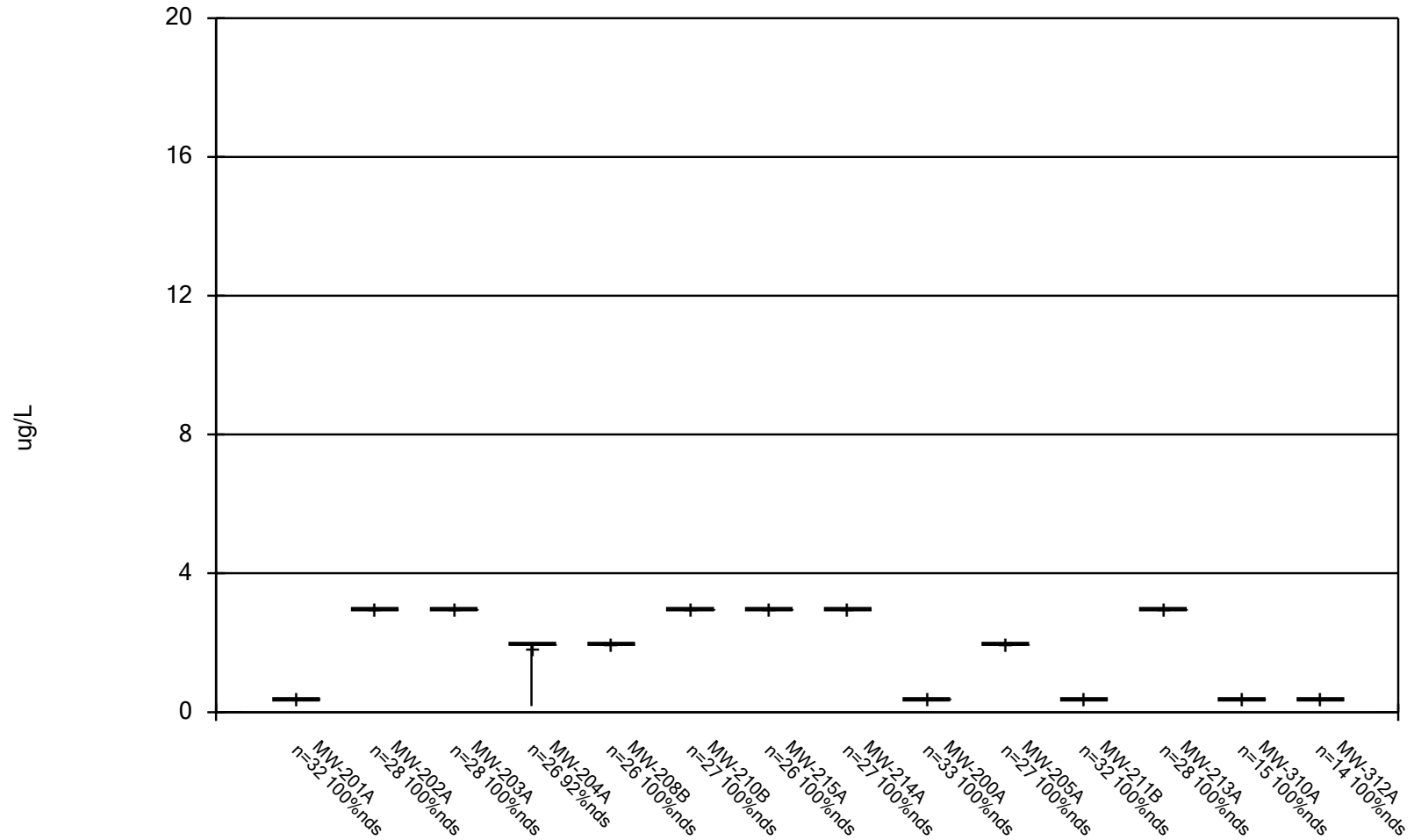
Box & Whiskers Plot



Constituent: Xylenes, Total Analysis Run 1/21/2025 9:22 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

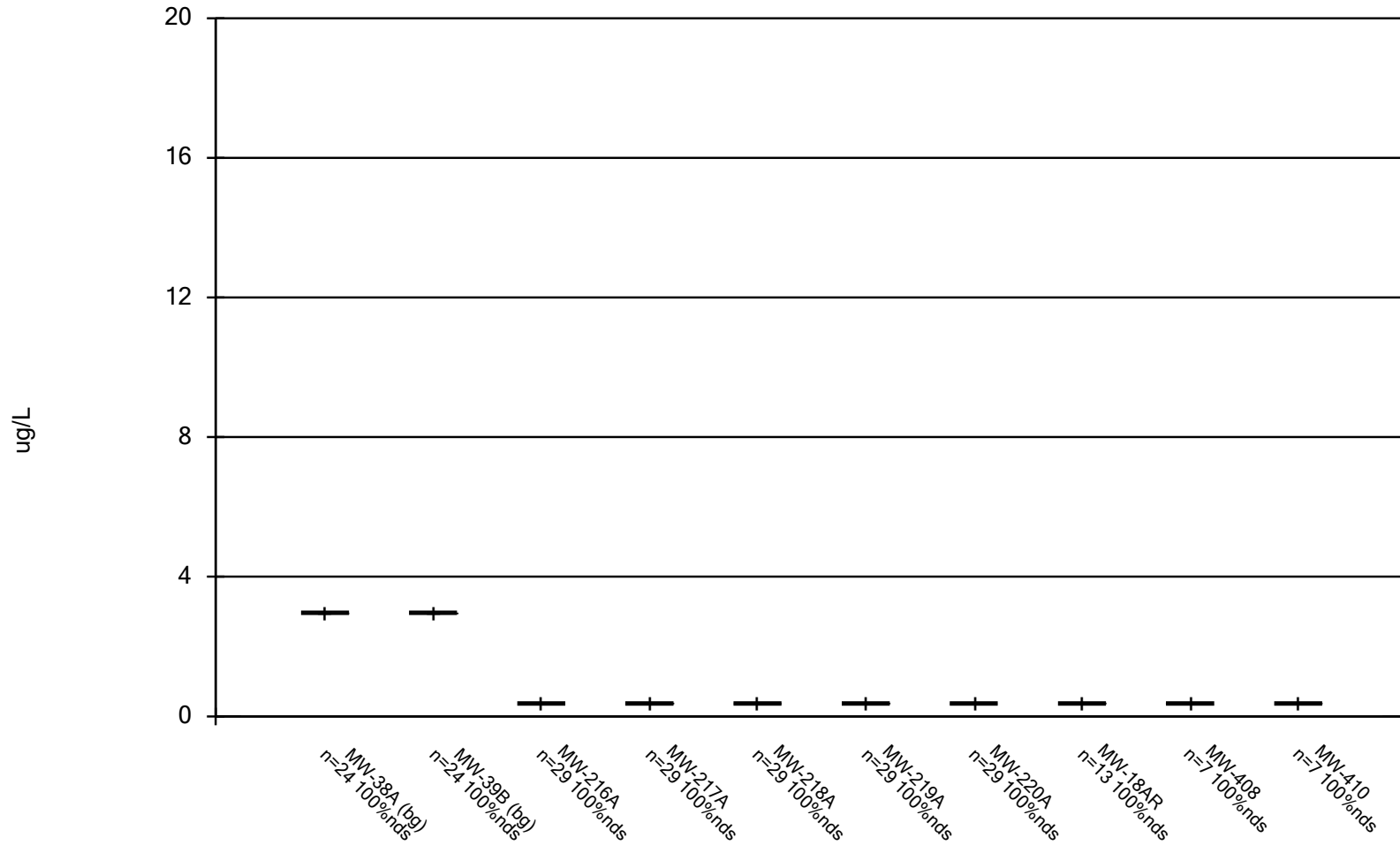
Box & Whiskers Plot



Constituent: Xylenes, Total Analysis Run 1/21/2025 9:22 PM View: 06A_MW_Organics_PL

Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot



Constituent: Xylenes, Total Analysis Run 1/21/2025 9:22 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
1,1,1-Trichloroethane (ug/L)	MW-34A (bg)	35	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-1B	35	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-8B	28	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-10B	12	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-12B	29	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-17A-00	30	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-23A	30	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-29A	36	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-31B	39	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-201A	32	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-203A	28	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-204A	27	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-210B	27	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-200A	33	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-205A	27	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-211B	32	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-213A	28	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-310A	15	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-312A	14	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
1,1,1-Trichloroethane (ug/L)	MW-216A	29	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-217A	29	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-218A	29	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-219A	29	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-220A	29	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-18AR	13	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-408	7	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1,1-Trichloroethane (ug/L)	MW-410	7	0.19	0	0	0.19	0.19	0.19	0.19	0.19	100
1,1-Dichloroethane (ug/L)	MW-34A (bg)	38	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-1B	35	0.2204	0.002366	0.0004	0.22	0.22	0.22	0.22	0.234	97.14
1,1-Dichloroethane (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-7B1	29	1.523	0.4223	0.07841	1.49	1.09	1.93	1	2.15	17.24
1,1-Dichloroethane (ug/L)	MW-8B	32	3.581	2.923	0.5167	2.475	1.24	5.15	0.327	12.6	15.63
1,1-Dichloroethane (ug/L)	MW-10B	12	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-12B	33	1.412	0.9122	0.1588	1	0.7915	2.3	0.267	3.2	27.27
1,1-Dichloroethane (ug/L)	MW-14B	29	0.9449	0.2259	0.04195	1	0.8365	1.035	0.292	1.33	41.38
1,1-Dichloroethane (ug/L)	MW-17A-00	30	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-23A	30	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100

Box & Whiskers Plot

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<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
1,1-Dichloroethane (ug/L)	MW-29A	36	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-31B	39	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-201A	31	1.187	0.6411	0.1151	1	1	1	0.416	3.35	70.97
1,1-Dichloroethane (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-203A	28	0.974	0.1374	0.02596	1	1	1	0.273	1	96.43
1,1-Dichloroethane (ug/L)	MW-204A	27	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-210B	27	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-200A	33	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-205A	27	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-211B	32	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-213A	28	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-310A	15	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-312A	14	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
1,1-Dichloroethane (ug/L)	MW-39B (bg)	24	0.9686	0.1537	0.03138	1	1	1	0.247	1	95.83
1,1-Dichloroethane (ug/L)	MW-216A	29	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-217A	29	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-218A	29	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-219A	29	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-220A	29	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-18AR	13	0.7628	0.2847	0.07898	0.8	0.4905	1	0.4	1.19	15.38
1,1-Dichloroethane (ug/L)	MW-408	7	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,1-Dichloroethane (ug/L)	MW-410	7	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
1,2-Dichloroethane (ug/L)	MW-34A (bg)	35	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-1B	35	0.3959	0.03516	0.005943	0.39	0.39	0.39	0.39	0.598	97.14
1,2-Dichloroethane (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-8B	28	0.9422	0.2122	0.0401	1	1	1	0.186	1	92.86
1,2-Dichloroethane (ug/L)	MW-10B	12	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-12B	29	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-17A-00	30	0.9729	0.1483	0.02707	1	1	1	0.188	1	96.67
1,2-Dichloroethane (ug/L)	MW-23A	30	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-29A	36	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-31B	39	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-201A	32	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-203A	28	0.9716	0.1504	0.02843	1	1	1	0.204	1	96.43
1,2-Dichloroethane (ug/L)	MW-204A	27	0.9327	0.195	0.03752	1	1	1	0.339	1	88.89
1,2-Dichloroethane (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-210B	27	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-200A	33	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-205A	27	0.9789	0.1097	0.02111	1	1	1	0.43	1	96.3

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
1,2-Dichloroethane (ug/L)	MW-211B	32	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-213A	28	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-310A	15	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-312A	14	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
1,2-Dichloroethane (ug/L)	MW-216A	29	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-217A	29	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-218A	29	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-219A	29	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-220A	29	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-18AR	13	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-408	7	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloroethane (ug/L)	MW-410	7	0.39	0	0	0.39	0.39	0.39	0.39	0.39	100
1,2-Dichloropropane (ug/L)	MW-34A (bg)	35	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-1B	35	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-8B	28	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-10B	12	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-12B	29	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-17A-00	30	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-23A	30	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-29A	36	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-31B	39	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-201A	32	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-203A	28	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-204A	27	1.054	0.2002	0.03852	1	1	1	1	1.91	92.59
1,2-Dichloropropane (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-210B	27	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-200A	33	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-205A	27	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-211B	32	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-213A	28	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-310A	15	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-312A	14	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
1,2-Dichloropropane (ug/L)	MW-216A	29	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-217A	29	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-218A	29	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-219A	29	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-220A	29	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-18AR	13	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
1,2-Dichloropropane (ug/L)	MW-408	7	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
1,2-Dichloropropane (ug/L)	MW-410	7	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
2,4,5-TP [Silvex] (ug/L)	MW-34A (bg)	10	1.08	0	0	1.08	1.08	1.08	1.08	1.08	100
2,4,5-TP [Silvex] (ug/L)	MW-1B	4	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-5B	4	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-7B1	4	1.03	0	0	1.03	1.03	1.03	1.03	1.03	100
2,4,5-TP [Silvex] (ug/L)	MW-8B	4	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-12B	4	0.8325	0.495	0.2475	1.08	0.585	1.08	0.09	1.08	75
2,4,5-TP [Silvex] (ug/L)	MW-14B	4	1.05	0	0	1.05	1.05	1.05	1.05	1.05	100
2,4,5-TP [Silvex] (ug/L)	MW-17A-00	4	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-23A	4	1.05	0	0	1.05	1.05	1.05	1.05	1.05	100
2,4,5-TP [Silvex] (ug/L)	MW-24A	4	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-25A-00	4	1.07	0	0	1.07	1.07	1.07	1.07	1.07	100
2,4,5-TP [Silvex] (ug/L)	MW-29A	4	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-31B	4	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-201A	3	1.05	0	0	1.05	1.05	1.05	1.05	1.05	100
2,4,5-TP [Silvex] (ug/L)	MW-202A	3	1.05	0	0	1.05	1.05	1.05	1.05	1.05	100
2,4,5-TP [Silvex] (ug/L)	MW-203A	3	1.07	0	0	1.07	1.07	1.07	1.07	1.07	100
2,4,5-TP [Silvex] (ug/L)	MW-204A	3	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-208B	3	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-210B	3	1.03	0	0	1.03	1.03	1.03	1.03	1.03	100
2,4,5-TP [Silvex] (ug/L)	MW-215A	3	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-214A	3	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-200A	3	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
2,4,5-TP [Silvex] (ug/L)	MW-205A	3	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
2,4,5-TP [Silvex] (ug/L)	MW-211B	3	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
2,4,5-TP [Silvex] (ug/L)	MW-213A	3	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
2,4,5-TP [Silvex] (ug/L)	MW-310A	1	1	0	0	1	1	1	1	1	100
2,4,5-TP [Silvex] (ug/L)	MW-312A	1	1	0	0	1	1	1	1	1	100
2,4,5-TP [Silvex] (ug/L)	MW-38A (bg)	3	1.04	0	0	1.04	1.04	1.04	1.04	1.04	100
2,4,5-TP [Silvex] (ug/L)	MW-216A	3	1.13	0	0	1.13	1.13	1.13	1.13	1.13	100
2,4,5-TP [Silvex] (ug/L)	MW-217A	3	1.13	0	0	1.13	1.13	1.13	1.13	1.13	100
2,4,5-TP [Silvex] (ug/L)	MW-218A	3	1.08	0	0	1.08	1.08	1.08	1.08	1.08	100
2,4,5-TP [Silvex] (ug/L)	MW-219A	3	1.09	0	0	1.09	1.09	1.09	1.09	1.09	100
2,4,5-TP [Silvex] (ug/L)	MW-220A	3	1.12	0	0	1.12	1.12	1.12	1.12	1.12	100
2,4,5-TP [Silvex] (ug/L)	MW-18AR	2	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
2,4-Dimethylphenol (ug/L)	MW-34A (bg)	3	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
2,4-Dimethylphenol (ug/L)	MW-1B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2,4-Dimethylphenol (ug/L)	MW-5B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2,4-Dimethylphenol (ug/L)	MW-7B1	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2,4-Dimethylphenol (ug/L)	MW-8B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
2,4-Dimethylphenol (ug/L)	MW-12B	4	8	0	0	8	8	8	8	8	100
2,4-Dimethylphenol (ug/L)	MW-14B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
2,4-Dimethylphenol (ug/L)	MW-17A-00	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2,4-Dimethylphenol (ug/L)	MW-23A	4	10.8	0	0	10.8	10.8	10.8	10.8	10.8	100
2,4-Dimethylphenol (ug/L)	MW-24A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
2,4-Dimethylphenol (ug/L)	MW-25A-00	4	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
2,4-Dimethylphenol (ug/L)	MW-29A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
2,4-Dimethylphenol (ug/L)	MW-31B	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
2,4-Dimethylphenol (ug/L)	MW-201A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
2,4-Dimethylphenol (ug/L)	MW-202A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2,4-Dimethylphenol (ug/L)	MW-203A	3	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
2,4-Dimethylphenol (ug/L)	MW-204A	3	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
2,4-Dimethylphenol (ug/L)	MW-208B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2,4-Dimethylphenol (ug/L)	MW-210B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2,4-Dimethylphenol (ug/L)	MW-215A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2,4-Dimethylphenol (ug/L)	MW-214A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2,4-Dimethylphenol (ug/L)	MW-200A	3	8	0	0	8	8	8	8	8	100
2,4-Dimethylphenol (ug/L)	MW-205A	3	8	0	0	8	8	8	8	8	100
2,4-Dimethylphenol (ug/L)	MW-211B	3	8	0	0	8	8	8	8	8	100
2,4-Dimethylphenol (ug/L)	MW-213A	3	8	0	0	8	8	8	8	8	100
2,4-Dimethylphenol (ug/L)	MW-310A	1	10	0	0	10	10	10	10	10	100
2,4-Dimethylphenol (ug/L)	MW-312A	1	10	0	0	10	10	10	10	10	100
2,4-Dimethylphenol (ug/L)	MW-38A (bg)	1	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
2,4-Dimethylphenol (ug/L)	MW-216A	3	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
2,4-Dimethylphenol (ug/L)	MW-217A	3	10	0	0	10	10	10	10	10	100
2,4-Dimethylphenol (ug/L)	MW-218A	3	9.8	0	0	9.8	9.8	9.8	9.8	9.8	100
2,4-Dimethylphenol (ug/L)	MW-219A	5	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
2,4-Dimethylphenol (ug/L)	MW-220A	3	10	0	0	10	10	10	10	10	100
2,4-Dimethylphenol (ug/L)	MW-18AR	2	8	0	0	8	8	8	8	8	100
2-Butanone [MEK] (ug/L)	MW-34A (bg)	35	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-1B	35	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-5B	29	5	0	0	5	5	5	5	5	100
2-Butanone [MEK] (ug/L)	MW-7B1	29	5	0	0	5	5	5	5	5	100
2-Butanone [MEK] (ug/L)	MW-8B	28	5	0	0	5	5	5	5	5	100
2-Butanone [MEK] (ug/L)	MW-10B	12	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-12B	29	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-14B	29	5	0	0	5	5	5	5	5	100
2-Butanone [MEK] (ug/L)	MW-17A-00	30	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-23A	30	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-24A	28	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-25A-00	35	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-29A	36	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-31B	39	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-201A	32	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-202A	28	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-203A	28	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-204A	27	5	0	0	5	5	5	5	5	100
2-Butanone [MEK] (ug/L)	MW-208B	26	5	0	0	5	5	5	5	5	100
2-Butanone [MEK] (ug/L)	MW-210B	27	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-215A	26	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-214A	27	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-200A	33	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-205A	27	5	0	0	5	5	5	5	5	100
2-Butanone [MEK] (ug/L)	MW-211B	32	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-213A	28	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-310A	15	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-312A	14	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-38A (bg)	24	10	0	0	10	10	10	10	10	100
2-Butanone [MEK] (ug/L)	MW-39B (bg)	24	10	0	0	10	10	10	10	10	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
2-Butanone [MEK] (ug/L)	MW-216A	28	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-217A	29	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-218A	29	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-219A	29	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-220A	29	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-18AR	13	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-408	7	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Butanone [MEK] (ug/L)	MW-410	7	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
2-Methylnaphthalene (ug/L)	MW-34A (bg)	3	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
2-Methylnaphthalene (ug/L)	MW-1B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylnaphthalene (ug/L)	MW-5B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylnaphthalene (ug/L)	MW-7B1	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylnaphthalene (ug/L)	MW-8B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
2-Methylnaphthalene (ug/L)	MW-12B	4	8	0	0	8	8	8	8	8	100
2-Methylnaphthalene (ug/L)	MW-14B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
2-Methylnaphthalene (ug/L)	MW-17A-00	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylnaphthalene (ug/L)	MW-23A	4	10.8	0	0	10.8	10.8	10.8	10.8	10.8	100
2-Methylnaphthalene (ug/L)	MW-24A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
2-Methylnaphthalene (ug/L)	MW-25A-00	4	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
2-Methylnaphthalene (ug/L)	MW-29A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
2-Methylnaphthalene (ug/L)	MW-31B	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
2-Methylnaphthalene (ug/L)	MW-201A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylnaphthalene (ug/L)	MW-202A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylnaphthalene (ug/L)	MW-203A	3	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
2-Methylnaphthalene (ug/L)	MW-204A	3	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
2-Methylnaphthalene (ug/L)	MW-208B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylnaphthalene (ug/L)	MW-210B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylnaphthalene (ug/L)	MW-215A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylnaphthalene (ug/L)	MW-214A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylnaphthalene (ug/L)	MW-200A	3	8	0	0	8	8	8	8	8	100
2-Methylnaphthalene (ug/L)	MW-205A	3	8	0	0	8	8	8	8	8	100
2-Methylnaphthalene (ug/L)	MW-211B	3	8	0	0	8	8	8	8	8	100
2-Methylnaphthalene (ug/L)	MW-213A	3	8	0	0	8	8	8	8	8	100
2-Methylnaphthalene (ug/L)	MW-310A	1	10	0	0	10	10	10	10	10	100
2-Methylnaphthalene (ug/L)	MW-312A	1	10	0	0	10	10	10	10	10	100
2-Methylnaphthalene (ug/L)	MW-38A (bg)	1	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
2-Methylnaphthalene (ug/L)	MW-216A	3	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
2-Methylnaphthalene (ug/L)	MW-217A	3	10	0	0	10	10	10	10	10	100
2-Methylnaphthalene (ug/L)	MW-218A	3	9.8	0	0	9.8	9.8	9.8	9.8	9.8	100
2-Methylnaphthalene (ug/L)	MW-219A	5	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
2-Methylnaphthalene (ug/L)	MW-220A	3	10	0	0	10	10	10	10	10	100
2-Methylnaphthalene (ug/L)	MW-18AR	2	8	0	0	8	8	8	8	8	100
2-Methylphenol (ug/L)	MW-34A (bg)	3	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
2-Methylphenol (ug/L)	MW-1B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylphenol (ug/L)	MW-5B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylphenol (ug/L)	MW-7B1	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylphenol (ug/L)	MW-8B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
2-Methylphenol (ug/L)	MW-12B	4	8	0	0	8	8	8	8	8	100
2-Methylphenol (ug/L)	MW-14B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
2-Methylphenol (ug/L)	MW-17A-00	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
2-Methylphenol (ug/L)	MW-23A	4	10.8	0	0	10.8	10.8	10.8	10.8	10.8	100
2-Methylphenol (ug/L)	MW-24A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
2-Methylphenol (ug/L)	MW-25A-00	4	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
2-Methylphenol (ug/L)	MW-29A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
2-Methylphenol (ug/L)	MW-31B	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
2-Methylphenol (ug/L)	MW-201A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylphenol (ug/L)	MW-202A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylphenol (ug/L)	MW-203A	3	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
2-Methylphenol (ug/L)	MW-204A	3	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
2-Methylphenol (ug/L)	MW-208B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylphenol (ug/L)	MW-210B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylphenol (ug/L)	MW-215A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylphenol (ug/L)	MW-214A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
2-Methylphenol (ug/L)	MW-200A	3	8	0	0	8	8	8	8	8	100
2-Methylphenol (ug/L)	MW-205A	3	8	0	0	8	8	8	8	8	100
2-Methylphenol (ug/L)	MW-211B	3	8	0	0	8	8	8	8	8	100
2-Methylphenol (ug/L)	MW-213A	3	8	0	0	8	8	8	8	8	100
2-Methylphenol (ug/L)	MW-310A	1	10	0	0	10	10	10	10	10	100
2-Methylphenol (ug/L)	MW-312A	1	10	0	0	10	10	10	10	10	100
2-Methylphenol (ug/L)	MW-38A (bg)	1	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
2-Methylphenol (ug/L)	MW-216A	3	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
2-Methylphenol (ug/L)	MW-217A	3	10	0	0	10	10	10	10	10	100
2-Methylphenol (ug/L)	MW-218A	3	9.8	0	0	9.8	9.8	9.8	9.8	9.8	100
2-Methylphenol (ug/L)	MW-219A	5	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
2-Methylphenol (ug/L)	MW-220A	3	10	0	0	10	10	10	10	10	100
2-Methylphenol (ug/L)	MW-18AR	2	8	0	0	8	8	8	8	8	100
4,4'-DDD (ug/L)	MW-34A (bg)	3	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
4,4'-DDD (ug/L)	MW-1B	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDD (ug/L)	MW-5B	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
4,4'-DDD (ug/L)	MW-7B1	5	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDD (ug/L)	MW-8B	6	0.02752	0.007243	0.002957	0.032	0.01855	0.032	0.0153	0.032	66.67
4,4'-DDD (ug/L)	MW-12B	4	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
4,4'-DDD (ug/L)	MW-14B	4	0.034	0	0	0.034	0.034	0.034	0.034	0.034	100
4,4'-DDD (ug/L)	MW-17A-00	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDD (ug/L)	MW-23A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
4,4'-DDD (ug/L)	MW-24A	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDD (ug/L)	MW-25A-00	4	0.0344	0	0	0.0344	0.0344	0.0344	0.0344	0.0344	100
4,4'-DDD (ug/L)	MW-29A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
4,4'-DDD (ug/L)	MW-31B	4	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
4,4'-DDD (ug/L)	MW-201A	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
4,4'-DDD (ug/L)	MW-202A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDD (ug/L)	MW-203A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDD (ug/L)	MW-204A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDD (ug/L)	MW-208B	13	0.03056	0.008492	0.002355	0.0337	0.03225	0.0337	0.0032	0.0337	69.23
4,4'-DDD (ug/L)	MW-210B	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
4,4'-DDD (ug/L)	MW-215A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
4,4'-DDD (ug/L)	MW-214A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
4,4'-DDD (ug/L)	MW-200A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
4,4'-DDD (ug/L)	MW-205A	3	0.03605	0.02416	0.01395	0.05	0.00815	0.05	0.00815	0.05	66.67
4,4'-DDD (ug/L)	MW-211B	3	0.03634	0.02365	0.01366	0.05	0.00903	0.05	0.00903	0.05	66.67

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
4,4'-DDD (ug/L)	MW-213A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
4,4'-DDD (ug/L)	MW-310A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
4,4'-DDD (ug/L)	MW-312A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
4,4'-DDD (ug/L)	MW-38A (bg)	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
4,4'-DDD (ug/L)	MW-216A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
4,4'-DDD (ug/L)	MW-217A	3	0.0744	0	0	0.0744	0.0744	0.0744	0.0744	0.0744	100
4,4'-DDD (ug/L)	MW-218A	3	0.0711	0	0	0.0711	0.0711	0.0711	0.0711	0.0711	100
4,4'-DDD (ug/L)	MW-219A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
4,4'-DDD (ug/L)	MW-220A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
4,4'-DDD (ug/L)	MW-18AR	2	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
4,4'-DDT (ug/L)	MW-34A (bg)	3	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
4,4'-DDT (ug/L)	MW-1B	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDT (ug/L)	MW-5B	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
4,4'-DDT (ug/L)	MW-7B1	5	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDT (ug/L)	MW-8B	6	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDT (ug/L)	MW-12B	4	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
4,4'-DDT (ug/L)	MW-14B	4	0.034	0	0	0.034	0.034	0.034	0.034	0.034	100
4,4'-DDT (ug/L)	MW-17A-00	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDT (ug/L)	MW-23A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
4,4'-DDT (ug/L)	MW-24A	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDT (ug/L)	MW-25A-00	4	0.0344	0	0	0.0344	0.0344	0.0344	0.0344	0.0344	100
4,4'-DDT (ug/L)	MW-29A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
4,4'-DDT (ug/L)	MW-31B	4	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
4,4'-DDT (ug/L)	MW-201A	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
4,4'-DDT (ug/L)	MW-202A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDT (ug/L)	MW-203A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDT (ug/L)	MW-204A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
4,4'-DDT (ug/L)	MW-208B	19	0.07015	0.02424	0.005562	0.08	0.08	0.08	0.00411	0.08	84.21
4,4'-DDT (ug/L)	MW-210B	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
4,4'-DDT (ug/L)	MW-215A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
4,4'-DDT (ug/L)	MW-214A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
4,4'-DDT (ug/L)	MW-200A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
4,4'-DDT (ug/L)	MW-205A	3	0.03703	0.02246	0.01297	0.05	0.0111	0.05	0.0111	0.05	66.67
4,4'-DDT (ug/L)	MW-211B	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
4,4'-DDT (ug/L)	MW-213A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
4,4'-DDT (ug/L)	MW-310A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
4,4'-DDT (ug/L)	MW-312A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
4,4'-DDT (ug/L)	MW-38A (bg)	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
4,4'-DDT (ug/L)	MW-216A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
4,4'-DDT (ug/L)	MW-217A	3	0.0744	0	0	0.0744	0.0744	0.0744	0.0744	0.0744	100
4,4'-DDT (ug/L)	MW-218A	3	0.0711	0	0	0.0711	0.0711	0.0711	0.0711	0.0711	100
4,4'-DDT (ug/L)	MW-219A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
4,4'-DDT (ug/L)	MW-220A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
4,4'-DDT (ug/L)	MW-18AR	2	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
4-Methyl-2-pentanone [MIBK]...	MW-34A (bg)	31	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-1B	35	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-5B	29	5	0	0	5	5	5	5	5	100
4-Methyl-2-pentanone [MIBK]...	MW-7B1	29	5	0	0	5	5	5	5	5	100
4-Methyl-2-pentanone [MIBK]...	MW-8B	28	5	0	0	5	5	5	5	5	100
4-Methyl-2-pentanone [MIBK]...	MW-10B	12	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
4-Methyl-2-pentanone [MIBK]...	MW-12B	29	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-14B	29	5	0	0	5	5	5	5	5	100
4-Methyl-2-pentanone [MIBK]...	MW-17A-00	30	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-23A	30	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-24A	28	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-25A-00	35	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-29A	36	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-31B	39	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-201A	32	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-202A	28	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-203A	28	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-204A	27	5	0	0	5	5	5	5	5	100
4-Methyl-2-pentanone [MIBK]...	MW-208B	26	5	0	0	5	5	5	5	5	100
4-Methyl-2-pentanone [MIBK]...	MW-210B	27	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-215A	26	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-214A	27	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-200A	33	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-205A	27	5	0	0	5	5	5	5	5	100
4-Methyl-2-pentanone [MIBK]...	MW-211B	32	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-213A	28	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-310A	15	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-312A	14	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-38A (bg)	24	9.642	1.755	0.3583	10	10	10	1.4	10	95.83
4-Methyl-2-pentanone [MIBK]...	MW-39B (bg)	24	10	0	0	10	10	10	10	10	100
4-Methyl-2-pentanone [MIBK]...	MW-216A	29	2.083	0.09285	0.01724	2.1	2.1	2.1	1.6	2.1	96.55
4-Methyl-2-pentanone [MIBK]...	MW-217A	29	2.083	0.09285	0.01724	2.1	2.1	2.1	1.6	2.1	96.55
4-Methyl-2-pentanone [MIBK]...	MW-218A	29	2.072	0.1486	0.02759	2.1	2.1	2.1	1.3	2.1	96.55
4-Methyl-2-pentanone [MIBK]...	MW-219A	29	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-220A	29	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-18AR	13	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-408	7	2.1	0	0	2.1	2.1	2.1	2.1	2.1	100
4-Methyl-2-pentanone [MIBK]...	MW-410	7	1.957	0.378	0.1429	2.1	2.1	2.1	1.1	2.1	85.71
Acetone (ug/L)	MW-34A (bg)	35	10	0	0	10	10	10	10	10	100
Acetone (ug/L)	MW-1B	35	3.117	0.1345	0.02274	3.1	3.1	3.1	2.92	3.87	94.29
Acetone (ug/L)	MW-5B	29	8.487	2.921	0.5424	10	9.305	10	2.18	10	75.86
Acetone (ug/L)	MW-7B1	29	9.332	2.023	0.3756	10	10	10	2.41	10	89.66
Acetone (ug/L)	MW-8B	27	9.099	2.212	0.4256	10	10	10	3.15	10	85.19
Acetone (ug/L)	MW-10B	12	3.1	0	0	3.1	3.1	3.1	3.1	3.1	100
Acetone (ug/L)	MW-12B	29	9.339	2.006	0.3725	10	10	10	2.29	10	89.66
Acetone (ug/L)	MW-14B	29	8.979	2.602	0.4832	10	10	10	2.35	10	86.21
Acetone (ug/L)	MW-17A-00	30	9.542	1.754	0.3203	10	10	10	2.34	10	93.33
Acetone (ug/L)	MW-23A	29	9.634	1.422	0.264	10	10	10	3.25	10	93.1
Acetone (ug/L)	MW-24A	28	9.519	1.767	0.3339	10	10	10	3.08	10	92.86
Acetone (ug/L)	MW-25A-00	35	9.562	1.809	0.3058	10	10	10	1.93	10	94.29
Acetone (ug/L)	MW-29A	36	3.074	0.2115	0.03526	3.1	3.1	3.1	1.87	3.38	94.44
Acetone (ug/L)	MW-31B	39	3.127	0.3567	0.05712	3.1	3.1	3.1	2.17	5.1	94.87
Acetone (ug/L)	MW-201A	32	3.108	0.04246	0.007506	3.1	3.1	3.1	3.1	3.34	93.75
Acetone (ug/L)	MW-202A	28	10	0	0	10	10	10	10	10	100
Acetone (ug/L)	MW-203A	28	9.796	1.081	0.2043	10	10	10	4.28	10	96.43
Acetone (ug/L)	MW-204A	27	9.62	1.527	0.2938	10	10	10	2.44	10	92.59

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
Acetone (ug/L)	MW-208B	26	8.919	2.596	0.5091	10	10	10	2.11	10	84.62
Acetone (ug/L)	MW-210B	27	9.083	2.31	0.4446	10	10	10	2.71	10	85.19
Acetone (ug/L)	MW-215A	26	9.142	2.446	0.4797	10	10	10	1.83	10	88.46
Acetone (ug/L)	MW-214A	27	9.203	2.306	0.4438	10	10	10	2.32	10	88.89
Acetone (ug/L)	MW-200A	33	3.19	0.5188	0.0903	3.1	3.1	3.1	3.1	6.08	96.97
Acetone (ug/L)	MW-205A	27	9.494	1.514	0.2913	10	10	10	3.78	10	88.89
Acetone (ug/L)	MW-211B	32	3.559	1.468	0.2594	3.1	3.1	3.1	2.955	10.2	81.25
Acetone (ug/L)	MW-213A	28	9.359	1.938	0.3662	10	10	10	2.89	10	89.29
Acetone (ug/L)	MW-310A	15	3.1	0	0	3.1	3.1	3.1	3.1	3.1	100
Acetone (ug/L)	MW-312A	14	3.1	0	0	3.1	3.1	3.1	3.1	3.1	100
Acetone (ug/L)	MW-38A (bg)	24	9.016	2.664	0.5438	10	10	10	1.82	10	87.5
Acetone (ug/L)	MW-39B (bg)	24	9.421	1.992	0.4065	10	10	10	1.87	10	91.67
Acetone (ug/L)	MW-216A	29	3.105	0.02785	0.005172	3.1	3.1	3.1	3.1	3.25	96.55
Acetone (ug/L)	MW-217A	29	3.13	0.1486	0.02759	3.1	3.1	3.1	3.1	3.9	93.1
Acetone (ug/L)	MW-218A	29	3.07	0.1597	0.02966	3.1	3.1	3.1	2.24	3.1	96.55
Acetone (ug/L)	MW-219A	29	3.14	0.2173	0.04034	3.1	3.1	3.1	3.1	4.27	96.55
Acetone (ug/L)	MW-220A	29	3.1	0	0	3.1	3.1	3.1	3.1	3.1	100
Acetone (ug/L)	MW-18AR	13	3.1	0	0	3.1	3.1	3.1	3.1	3.1	100
Acetone (ug/L)	MW-408	7	3.1	0	0	3.1	3.1	3.1	3.1	3.1	100
Acetone (ug/L)	MW-410	7	3.1	0	0	3.1	3.1	3.1	3.1	3.1	100
Benzene (ug/L)	MW-34A (bg)	41	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-1B	35	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
Benzene (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
Benzene (ug/L)	MW-8B	28	0.7106	0.3683	0.0696	1	0.2615	1	0.194	1	60.71
Benzene (ug/L)	MW-10B	12	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-12B	29	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
Benzene (ug/L)	MW-17A-00	30	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-23A	30	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-24A	28	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-25A-00	35	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-29A	36	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-31B	39	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-201A	32	0.2167	0.01838	0.00325	0.22	0.22	0.22	0.116	0.22	96.88
Benzene (ug/L)	MW-202A	28	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-203A	28	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-204A	31	2.891	2.556	0.4591	1.39	1	4.73	0.211	9.88	29.03
Benzene (ug/L)	MW-208B	26	0.4182	0.09963	0.01954	0.458	0.3335	0.5	0.143	0.5	46.15
Benzene (ug/L)	MW-210B	27	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-215A	26	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-214A	27	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-200A	33	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-205A	30	3.549	4.364	0.7968	1.52	0.98	5.645	0.142	19	23.33
Benzene (ug/L)	MW-211B	32	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-213A	28	0.489	0.05821	0.011	0.5	0.5	0.5	0.192	0.5	96.43
Benzene (ug/L)	MW-310A	15	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-312A	14	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-38A (bg)	24	0.5	0	0	0.5	0.5	0.5	0.5	0.5	100
Benzene (ug/L)	MW-39B (bg)	24	0.4947	0.02592	0.005292	0.5	0.5	0.5	0.373	0.5	95.83

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
Benzene (ug/L)	MW-216A	29	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-217A	29	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-218A	29	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-219A	29	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-220A	29	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-18AR	13	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-408	7	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzene (ug/L)	MW-410	7	0.22	0	0	0.22	0.22	0.22	0.22	0.22	100
Benzyl alcohol (ug/L)	MW-34A (bg)	3	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
Benzyl alcohol (ug/L)	MW-1B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Benzyl alcohol (ug/L)	MW-5B	4	7.847	5.106	2.553	10.4	5.294	10.4	0.188	10.4	75
Benzyl alcohol (ug/L)	MW-7B1	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Benzyl alcohol (ug/L)	MW-8B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
Benzyl alcohol (ug/L)	MW-12B	4	8	0	0	8	8	8	8	8	100
Benzyl alcohol (ug/L)	MW-14B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
Benzyl alcohol (ug/L)	MW-17A-00	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Benzyl alcohol (ug/L)	MW-23A	4	10.8	0	0	10.8	10.8	10.8	10.8	10.8	100
Benzyl alcohol (ug/L)	MW-24A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
Benzyl alcohol (ug/L)	MW-25A-00	4	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
Benzyl alcohol (ug/L)	MW-29A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
Benzyl alcohol (ug/L)	MW-31B	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
Benzyl alcohol (ug/L)	MW-201A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Benzyl alcohol (ug/L)	MW-202A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Benzyl alcohol (ug/L)	MW-203A	3	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
Benzyl alcohol (ug/L)	MW-204A	3	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
Benzyl alcohol (ug/L)	MW-208B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Benzyl alcohol (ug/L)	MW-210B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Benzyl alcohol (ug/L)	MW-215A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Benzyl alcohol (ug/L)	MW-214A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Benzyl alcohol (ug/L)	MW-200A	3	8	0	0	8	8	8	8	8	100
Benzyl alcohol (ug/L)	MW-205A	3	8	0	0	8	8	8	8	8	100
Benzyl alcohol (ug/L)	MW-211B	3	8	0	0	8	8	8	8	8	100
Benzyl alcohol (ug/L)	MW-213A	3	8	0	0	8	8	8	8	8	100
Benzyl alcohol (ug/L)	MW-310A	1	10	0	0	10	10	10	10	10	100
Benzyl alcohol (ug/L)	MW-312A	1	10	0	0	10	10	10	10	10	100
Benzyl alcohol (ug/L)	MW-38A (bg)	1	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
Benzyl alcohol (ug/L)	MW-216A	3	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
Benzyl alcohol (ug/L)	MW-217A	3	10	0	0	10	10	10	10	10	100
Benzyl alcohol (ug/L)	MW-218A	3	9.8	0	0	9.8	9.8	9.8	9.8	9.8	100
Benzyl alcohol (ug/L)	MW-219A	5	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
Benzyl alcohol (ug/L)	MW-220A	3	10	0	0	10	10	10	10	10	100
Benzyl alcohol (ug/L)	MW-18AR	2	8	0	0	8	8	8	8	8	100
Beta-BHC (ug/L)	MW-34A (bg)	7	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Beta-BHC (ug/L)	MW-1B	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Beta-BHC (ug/L)	MW-5B	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Beta-BHC (ug/L)	MW-7B1	5	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Beta-BHC (ug/L)	MW-8B	6	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Beta-BHC (ug/L)	MW-12B	4	0.03907	0.02187	0.01093	0.05	0.02814	0.05	0.00627	0.05	75
Beta-BHC (ug/L)	MW-14B	4	0.034	0	0	0.034	0.034	0.034	0.034	0.034	100
Beta-BHC (ug/L)	MW-17A-00	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Beta-BHC (ug/L)	MW-23A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Beta-BHC (ug/L)	MW-24A	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Beta-BHC (ug/L)	MW-25A-00	4	0.0344	0	0	0.0344	0.0344	0.0344	0.0344	0.0344	100
Beta-BHC (ug/L)	MW-29A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Beta-BHC (ug/L)	MW-31B	4	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Beta-BHC (ug/L)	MW-201A	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Beta-BHC (ug/L)	MW-202A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Beta-BHC (ug/L)	MW-203A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Beta-BHC (ug/L)	MW-204A	3	0.02393	0.0157	0.009067	0.033	0.0058	0.033	0.0058	0.033	66.67
Beta-BHC (ug/L)	MW-208B	3	0.01543	0.01582	0.009134	0.00655	0.00605	0.0337	0.00605	0.0337	33.33
Beta-BHC (ug/L)	MW-210B	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Beta-BHC (ug/L)	MW-215A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Beta-BHC (ug/L)	MW-214A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Beta-BHC (ug/L)	MW-200A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Beta-BHC (ug/L)	MW-205A	3	0.0352	0.02564	0.0148	0.05	0.00559	0.05	0.00559	0.05	66.67
Beta-BHC (ug/L)	MW-211B	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Beta-BHC (ug/L)	MW-213A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Beta-BHC (ug/L)	MW-310A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Beta-BHC (ug/L)	MW-312A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Beta-BHC (ug/L)	MW-38A (bg)	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Beta-BHC (ug/L)	MW-39B (bg)	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Beta-BHC (ug/L)	MW-216A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Beta-BHC (ug/L)	MW-217A	3	0.0744	0	0	0.0744	0.0744	0.0744	0.0744	0.0744	100
Beta-BHC (ug/L)	MW-218A	3	0.0711	0	0	0.0711	0.0711	0.0711	0.0711	0.0711	100
Beta-BHC (ug/L)	MW-219A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Beta-BHC (ug/L)	MW-220A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Beta-BHC (ug/L)	MW-18AR	2	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Bis[2-chloroethoxy]methane ...	MW-34A (bg)	2	10	0	0	10	10	10	10	10	100
Bis[2-chloroethoxy]methane ...	MW-1B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Bis[2-chloroethoxy]methane ...	MW-5B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Bis[2-chloroethoxy]methane ...	MW-7B1	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Bis[2-chloroethoxy]methane ...	MW-8B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
Bis[2-chloroethoxy]methane ...	MW-12B	4	8	0	0	8	8	8	8	8	100
Bis[2-chloroethoxy]methane ...	MW-14B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
Bis[2-chloroethoxy]methane ...	MW-17A-00	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Bis[2-chloroethoxy]methane ...	MW-23A	4	10.8	0	0	10.8	10.8	10.8	10.8	10.8	100
Bis[2-chloroethoxy]methane ...	MW-24A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
Bis[2-chloroethoxy]methane ...	MW-25A-00	4	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
Bis[2-chloroethoxy]methane ...	MW-29A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
Bis[2-chloroethoxy]methane ...	MW-31B	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
Bis[2-chloroethoxy]methane ...	MW-201A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Bis[2-chloroethoxy]methane ...	MW-202A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Bis[2-chloroethoxy]methane ...	MW-203A	3	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
Bis[2-chloroethoxy]methane ...	MW-204A	3	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
Bis[2-chloroethoxy]methane ...	MW-208B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Bis[2-chloroethoxy]methane ...	MW-210B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Bis[2-chloroethoxy]methane ...	MW-215A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Bis[2-chloroethoxy]methane ...	MW-214A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Bis[2-chloroethoxy]methane ...	MW-200A	3	8	0	0	8	8	8	8	8	100
Bis[2-chloroethoxy]methane ...	MW-205A	3	8	0	0	8	8	8	8	8	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Bis[2-chloroethoxy]methane ...	MW-211B	3	8	0	0	8	8	8	8	8	100
Bis[2-chloroethoxy]methane ...	MW-213A	3	8	0	0	8	8	8	8	8	100
Bis[2-chloroethoxy]methane ...	MW-310A	1	10	0	0	10	10	10	10	10	100
Bis[2-chloroethoxy]methane ...	MW-312A	1	10	0	0	10	10	10	10	10	100
Bis[2-chloroethoxy]methane ...	MW-216A	3	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
Bis[2-chloroethoxy]methane ...	MW-217A	3	10	0	0	10	10	10	10	10	100
Bis[2-chloroethoxy]methane ...	MW-218A	3	9.8	0	0	9.8	9.8	9.8	9.8	9.8	100
Bis[2-chloroethoxy]methane ...	MW-219A	5	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
Bis[2-chloroethoxy]methane ...	MW-220A	3	10	0	0	10	10	10	10	10	100
Bis[2-chloroethoxy]methane ...	MW-18AR	2	8	0	0	8	8	8	8	8	100
Bis[2-ethylhexyl]phthalate ...	MW-34A (bg)	2	10	0	0	10	10	10	10	10	100
Bis[2-ethylhexyl]phthalate ...	MW-1B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Bis[2-ethylhexyl]phthalate ...	MW-5B	4	8.79	3.22	1.61	10.4	7.18	10.4	3.96	10.4	75
Bis[2-ethylhexyl]phthalate ...	MW-7B1	4	7.97	4.859	2.43	10.4	5.54	10.4	0.681	10.4	75
Bis[2-ethylhexyl]phthalate ...	MW-8B	4	7.822	4.755	2.378	10.2	5.444	10.2	0.689	10.2	75
Bis[2-ethylhexyl]phthalate ...	MW-12B	6	8.976	4.155	1.696	10	5.428	11.5	0.856	13	66.67
Bis[2-ethylhexyl]phthalate ...	MW-14B	4	8.155	4.09	2.045	10.2	6.11	10.2	2.02	10.2	75
Bis[2-ethylhexyl]phthalate ...	MW-17A-00	4	7.992	4.816	2.408	10.4	5.584	10.4	0.768	10.4	75
Bis[2-ethylhexyl]phthalate ...	MW-23A	4	9.473	2.655	1.328	10.8	8.145	10.8	5.49	10.8	75
Bis[2-ethylhexyl]phthalate ...	MW-24A	4	9.658	1.285	0.6425	10.3	9.015	10.3	7.73	10.3	75
Bis[2-ethylhexyl]phthalate ...	MW-25A-00	4	8.438	4.125	2.063	10.5	6.375	10.5	2.25	10.5	75
Bis[2-ethylhexyl]phthalate ...	MW-29A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
Bis[2-ethylhexyl]phthalate ...	MW-31B	13	7.952	5.033	1.396	10.3	1.125	10.3	1.11	16.5	61.54
Bis[2-ethylhexyl]phthalate ...	MW-201A	12	8.413	4.498	1.298	10.4	6.13	10.4	0.817	14.2	66.67
Bis[2-ethylhexyl]phthalate ...	MW-202A	3	7.3	5.369	3.1	10.4	1.1	10.4	1.1	10.4	66.67
Bis[2-ethylhexyl]phthalate ...	MW-203A	3	7.343	5.468	3.157	10.5	1.03	10.5	1.03	10.5	66.67
Bis[2-ethylhexyl]phthalate ...	MW-204A	3	9.423	1.172	0.6767	10.1	8.07	10.1	8.07	10.1	66.67
Bis[2-ethylhexyl]phthalate ...	MW-208B	3	9.983	0.7217	0.4167	10.4	9.15	10.4	9.15	10.4	66.67
Bis[2-ethylhexyl]phthalate ...	MW-210B	3	9.22	2.044	1.18	10.4	6.86	10.4	6.86	10.4	66.67
Bis[2-ethylhexyl]phthalate ...	MW-215A	12	7.272	4.698	1.356	10.4	1.131	10.4	0.56	10.8	58.33
Bis[2-ethylhexyl]phthalate ...	MW-214A	12	6.928	5.338	1.541	10.4	1.245	10.4	0.635	15.3	50
Bis[2-ethylhexyl]phthalate ...	MW-200A	3	4.249	3.033	1.751	6	0.747	6	0.747	6	66.67
Bis[2-ethylhexyl]phthalate ...	MW-205A	3	4.293	2.956	1.707	6	0.88	6	0.88	6	66.67
Bis[2-ethylhexyl]phthalate ...	MW-211B	3	4.279	2.981	1.721	6	0.837	6	0.837	6	66.67
Bis[2-ethylhexyl]phthalate ...	MW-213A	3	4.254	3.025	1.746	6	0.761	6	0.761	6	66.67
Bis[2-ethylhexyl]phthalate ...	MW-310A	1	10	0	0	10	10	10	10	10	100
Bis[2-ethylhexyl]phthalate ...	MW-312A	1	10	0	0	10	10	10	10	10	100
Bis[2-ethylhexyl]phthalate ...	MW-216A	3	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
Bis[2-ethylhexyl]phthalate ...	MW-217A	3	10	0	0	10	10	10	10	10	100
Bis[2-ethylhexyl]phthalate ...	MW-218A	3	9.8	0	0	9.8	9.8	9.8	9.8	9.8	100
Bis[2-ethylhexyl]phthalate ...	MW-219A	5	8.93	3.734	1.67	10.6	6.425	10.6	2.25	10.6	80
Bis[2-ethylhexyl]phthalate ...	MW-220A	3	10	0	0	10	10	10	10	10	100
Bis[2-ethylhexyl]phthalate ...	MW-18AR	2	6	0	0	6	6	6	6	6	100
Carbon Disulfide (ug/L)	MW-34A (bg)	31	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-1B	35	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-8B	28	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-10B	12	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-12B	29	1	0	0	1	1	1	1	1	100

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Carbon Disulfide (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-17A-00	30	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-23A	30	0.9814	0.1022	0.01865	1	1	1	0.4405	1	96.67
Carbon Disulfide (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-29A	36	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-31B	39	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-201A	32	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-203A	28	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-204A	27	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-210B	27	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-200A	33	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-205A	27	0.9707	0.136	0.02618	1	1	1	0.295	1	92.59
Carbon Disulfide (ug/L)	MW-211B	32	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-213A	28	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-310A	15	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-312A	14	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
Carbon Disulfide (ug/L)	MW-216A	29	0.5917	0.453	0.08411	0.45	0.45	0.45	0.45	2.2	89.66
Carbon Disulfide (ug/L)	MW-217A	29	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-218A	29	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-219A	29	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-220A	29	0.45	0.0001857	0.00003448	0.45	0.45	0.45	0.45	0.451	96.55
Carbon Disulfide (ug/L)	MW-18AR	13	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-408	7	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Disulfide (ug/L)	MW-410	7	0.45	0	0	0.45	0.45	0.45	0.45	0.45	100
Carbon Tetrachloride (ug/L)	MW-34A (bg)	31	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-1B	34	0.6426	0.04287	0.007353	0.65	0.65	0.65	0.4	0.65	97.06
Carbon Tetrachloride (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
Carbon Tetrachloride (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
Carbon Tetrachloride (ug/L)	MW-8B	28	1	0	0	1	1	1	1	1	100
Carbon Tetrachloride (ug/L)	MW-10B	12	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	MW-12B	29	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
Carbon Tetrachloride (ug/L)	MW-17A-00	30	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-23A	30	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-24A	28	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-25A-00	35	1.954	0.2704	0.04571	2	2	2	0.4	2	97.14
Carbon Tetrachloride (ug/L)	MW-29A	36	0.6486	0.008333	0.001389	0.65	0.65	0.65	0.6	0.65	97.22
Carbon Tetrachloride (ug/L)	MW-31B	39	0.6462	0.02402	0.003846	0.65	0.65	0.65	0.5	0.65	97.44
Carbon Tetrachloride (ug/L)	MW-201A	32	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	MW-202A	28	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-203A	28	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-204A	27	1	0	0	1	1	1	1	1	100
Carbon Tetrachloride (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Carbon Tetrachloride (ug/L)	MW-210B	27	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-215A	26	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-214A	27	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-200A	33	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	MW-205A	27	1	0	0	1	1	1	1	1	100
Carbon Tetrachloride (ug/L)	MW-211B	32	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	MW-213A	28	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-310A	15	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	MW-312A	14	0.6321	0.06682	0.01786	0.65	0.65	0.65	0.4	0.65	92.86
Carbon Tetrachloride (ug/L)	MW-38A (bg)	24	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-39B (bg)	24	2	0	0	2	2	2	2	2	100
Carbon Tetrachloride (ug/L)	MW-216A	29	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	MW-217A	29	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	MW-218A	29	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	MW-219A	29	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	MW-220A	29	0.6431	0.03714	0.006897	0.65	0.65	0.65	0.45	0.65	96.55
Carbon Tetrachloride (ug/L)	MW-18AR	13	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	MW-408	7	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Carbon Tetrachloride (ug/L)	MW-410	7	0.65	0	0	0.65	0.65	0.65	0.65	0.65	100
Chlorobenzene (ug/L)	MW-34A (bg)	31	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-1B	35	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-8B	28	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-10B	12	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-12B	29	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-17A-00	30	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-23A	30	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-29A	36	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-31B	39	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-201A	32	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-203A	28	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-204A	27	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-210B	27	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-200A	33	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-205A	27	0.9712	0.1497	0.02881	1	1	1	0.222	1	96.3
Chlorobenzene (ug/L)	MW-211B	32	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-213A	28	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-310A	15	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-312A	14	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
Chlorobenzene (ug/L)	MW-216A	29	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Chlorobenzene (ug/L)	MW-217A	29	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-218A	29	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-219A	29	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-220A	29	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-18AR	13	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-408	7	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chlorobenzene (ug/L)	MW-410	7	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Chloroethane (ug/L)	MW-34A (bg)	38	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-1B	35	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
Chloroethane (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
Chloroethane (ug/L)	MW-8B	28	1.028	0.1119	0.02114	1	1	1	1	1.58	89.29
Chloroethane (ug/L)	MW-10B	12	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-12B	29	3.68	0.9743	0.1809	4	4	4	0.746	4.12	86.21
Chloroethane (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
Chloroethane (ug/L)	MW-17A-00	30	3.89	0.6041	0.1103	4	4	4	0.691	4	96.67
Chloroethane (ug/L)	MW-23A	30	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-24A	28	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-25A-00	35	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-29A	36	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-31B	39	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-201A	32	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-202A	28	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-203A	28	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-204A	27	1.736	1.534	0.2953	1	1	1.88	0.343	6.66	59.26
Chloroethane (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
Chloroethane (ug/L)	MW-210B	27	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-215A	26	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-214A	27	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-200A	33	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-205A	27	1.804	2.053	0.3951	1	1	1	0.749	8.54	77.78
Chloroethane (ug/L)	MW-211B	32	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-213A	28	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-310A	15	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-312A	14	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-38A (bg)	24	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-39B (bg)	24	4	0	0	4	4	4	4	4	100
Chloroethane (ug/L)	MW-216A	29	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-217A	29	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-218A	29	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-219A	29	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-220A	29	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-18AR	13	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-408	7	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloroethane (ug/L)	MW-410	7	0.79	0	0	0.79	0.79	0.79	0.79	0.79	100
Chloromethane (ug/L)	MW-34A (bg)	31	2.839	0.6252	0.1123	3	3	3	0.366	3	93.55
Chloromethane (ug/L)	MW-1B	35	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
Chloromethane (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
Chloromethane (ug/L)	MW-8B	28	0.9825	0.09279	0.01754	1	1	1	0.509	1	96.43

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Chloromethane (ug/L)	MW-10B	12	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-12B	29	2.909	0.4902	0.09103	3	3	3	0.36	3	96.55
Chloromethane (ug/L)	MW-14B	29	0.9807	0.1038	0.01928	1	1	1	0.441	1	96.55
Chloromethane (ug/L)	MW-17A-00	30	2.913	0.4765	0.087	3	3	3	0.39	3	96.67
Chloromethane (ug/L)	MW-23A	30	3	0	0	3	3	3	3	3	100
Chloromethane (ug/L)	MW-24A	28	2.907	0.4934	0.09325	3	3	3	0.389	3	96.43
Chloromethane (ug/L)	MW-25A-00	35	3	0	0	3	3	3	3	3	100
Chloromethane (ug/L)	MW-29A	36	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-31B	39	0.6063	0.02338	0.003744	0.61	0.61	0.61	0.464	0.61	97.44
Chloromethane (ug/L)	MW-201A	32	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-202A	28	2.908	0.4874	0.09211	3	3	3	0.421	3	96.43
Chloromethane (ug/L)	MW-203A	28	2.911	0.4698	0.08879	3	3	3	0.514	3	96.43
Chloromethane (ug/L)	MW-204A	27	0.9849	0.07871	0.01515	1	1	1	0.591	1	96.3
Chloromethane (ug/L)	MW-208B	26	1.009	0.2203	0.04321	1	1	1	0.349	1.89	92.31
Chloromethane (ug/L)	MW-210B	27	3	0	0	3	3	3	3	3	100
Chloromethane (ug/L)	MW-215A	26	3	0	0	3	3	3	3	3	100
Chloromethane (ug/L)	MW-214A	27	3.006	0.03079	0.005926	3	3	3	3	3.16	96.3
Chloromethane (ug/L)	MW-200A	33	0.6044	0.0322	0.005606	0.61	0.61	0.61	0.425	0.61	96.97
Chloromethane (ug/L)	MW-205A	27	0.9827	0.09007	0.01733	1	1	1	0.532	1	96.3
Chloromethane (ug/L)	MW-211B	32	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-213A	28	3	0	0	3	3	3	3	3	100
Chloromethane (ug/L)	MW-310A	15	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-312A	14	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-38A (bg)	24	2.892	0.5293	0.108	3	3	3	0.407	3	95.83
Chloromethane (ug/L)	MW-39B (bg)	24	3	0	0	3	3	3	3	3	100
Chloromethane (ug/L)	MW-216A	29	0.6	0.05367	0.009966	0.61	0.61	0.61	0.321	0.61	96.55
Chloromethane (ug/L)	MW-217A	29	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-218A	29	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-219A	29	0.601	0.04847	0.009	0.61	0.61	0.61	0.349	0.61	96.55
Chloromethane (ug/L)	MW-220A	29	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-18AR	13	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-408	7	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
Chloromethane (ug/L)	MW-410	7	0.61	0	0	0.61	0.61	0.61	0.61	0.61	100
cis-1,2-Dichloroethene (ug/L)	MW-34A (bg)	38	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-1B	35	0.2269	0.09973	0.01686	0.21	0.21	0.21	0.21	0.8	97.14
cis-1,2-Dichloroethene (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-7B1	29	0.9642	0.1391	0.02583	1	1	1	0.34	1	93.1
cis-1,2-Dichloroethene (ug/L)	MW-8B	28	0.9481	0.1915	0.03619	1	1	1	0.203	1	92.86
cis-1,2-Dichloroethene (ug/L)	MW-10B	12	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-12B	29	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-14B	29	0.9717	0.1523	0.02828	1	1	1	0.18	1	96.55
cis-1,2-Dichloroethene (ug/L)	MW-17A-00	30	0.9719	0.1539	0.0281	1	1	1	0.157	1	96.67
cis-1,2-Dichloroethene (ug/L)	MW-23A	30	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-29A	36	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-31B	39	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-201A	32	0.4001	0.5029	0.08891	0.21	0.21	0.21	0.173	2.65	75
cis-1,2-Dichloroethene (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-203A	28	1	0	0	1	1	1	1	1	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
cis-1,2-Dichloroethene (ug/L)	MW-204A	27	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-208B	26	0.851	0.2901	0.0569	1	0.856	1	0.177	1	76.92
cis-1,2-Dichloroethene (ug/L)	MW-210B	27	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-200A	33	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-205A	27	0.9604	0.17	0.03271	1	1	1	0.132	1	92.59
cis-1,2-Dichloroethene (ug/L)	MW-211B	32	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-213A	28	0.9718	0.1491	0.02818	1	1	1	0.211	1	96.43
cis-1,2-Dichloroethene (ug/L)	MW-310A	15	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-312A	14	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
cis-1,2-Dichloroethene (ug/L)	MW-216A	29	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-217A	29	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-218A	29	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-219A	29	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-220A	29	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-18AR	12	1.967	0.6354	0.1834	1.85	1.41	2.35	1.36	3.4	0
cis-1,2-Dichloroethene (ug/L)	MW-408	7	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
cis-1,2-Dichloroethene (ug/L)	MW-410	7	0.21	0	0	0.21	0.21	0.21	0.21	0.21	100
Delta-BHC (ug/L)	MW-34A (bg)	4	0.0327	0	0	0.0327	0.0327	0.0327	0.0327	0.0327	100
Delta-BHC (ug/L)	MW-1B	4	0.0247	0.0146	0.0073	0.032	0.0174	0.032	0.0028	0.032	75
Delta-BHC (ug/L)	MW-5B	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Delta-BHC (ug/L)	MW-7B1	5	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Delta-BHC (ug/L)	MW-8B	6	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Delta-BHC (ug/L)	MW-12B	4	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Delta-BHC (ug/L)	MW-14B	4	0.034	0	0	0.034	0.034	0.034	0.034	0.034	100
Delta-BHC (ug/L)	MW-17A-00	4	0.02517	0.01505	0.007527	0.0327	0.01764	0.0327	0.00259	0.0327	75
Delta-BHC (ug/L)	MW-23A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Delta-BHC (ug/L)	MW-24A	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Delta-BHC (ug/L)	MW-25A-00	4	0.0344	0	0	0.0344	0.0344	0.0344	0.0344	0.0344	100
Delta-BHC (ug/L)	MW-29A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Delta-BHC (ug/L)	MW-31B	4	0.02524	0.01491	0.007455	0.0327	0.01779	0.0327	0.00288	0.0327	75
Delta-BHC (ug/L)	MW-201A	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Delta-BHC (ug/L)	MW-202A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Delta-BHC (ug/L)	MW-203A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Delta-BHC (ug/L)	MW-204A	3	0.02322	0.01745	0.01008	0.0333	0.00307	0.0333	0.00307	0.0333	66.67
Delta-BHC (ug/L)	MW-208B	3	0.01581	0.01552	0.008959	0.00772	0.00601	0.0337	0.00601	0.0337	33.33
Delta-BHC (ug/L)	MW-210B	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Delta-BHC (ug/L)	MW-215A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Delta-BHC (ug/L)	MW-214A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Delta-BHC (ug/L)	MW-200A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Delta-BHC (ug/L)	MW-205A	3	0.03847	0.01998	0.01153	0.05	0.0154	0.05	0.0154	0.05	66.67
Delta-BHC (ug/L)	MW-211B	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Delta-BHC (ug/L)	MW-213A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Delta-BHC (ug/L)	MW-310A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Delta-BHC (ug/L)	MW-312A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Delta-BHC (ug/L)	MW-38A (bg)	2	0.036	0	0	0.036	0.036	0.036	0.036	0.036	100
Delta-BHC (ug/L)	MW-216A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Delta-BHC (ug/L)	MW-217A	3	0.0744	0	0	0.0744	0.0744	0.0744	0.0744	0.0744	100
Delta-BHC (ug/L)	MW-218A	13	0.0711	0	0	0.0711	0.0711	0.0711	0.0711	0.0711	100
Delta-BHC (ug/L)	MW-219A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Delta-BHC (ug/L)	MW-220A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Delta-BHC (ug/L)	MW-18AR	2	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Dichlorodifluoromethane (ug/L)	MW-34A (bg)	14	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-1B	4	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-5B	4	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-7B1	4	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-8B	4	2.36	1.281	0.6405	3	1.719	3	0.438	3	75
Dichlorodifluoromethane (ug/L)	MW-12B	4	1	0	0	1	1	1	1	1	100
Dichlorodifluoromethane (ug/L)	MW-14B	4	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-17A-00	4	1.783	1.428	0.7142	1.941	0.5665	3	0.251	3	50
Dichlorodifluoromethane (ug/L)	MW-23A	4	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-24A	4	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-25A-00	4	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-29A	4	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-31B	4	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-201A	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-202A	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-203A	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-204A	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-208B	3	2.322	1.175	0.6783	3	0.965	3	0.965	3	66.67
Dichlorodifluoromethane (ug/L)	MW-210B	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-215A	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-214A	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-200A	25	2.233	1.032	0.2063	1.92	1.5	3.1	0.797	4.51	8
Dichlorodifluoromethane (ug/L)	MW-205A	3	0.7613	0.4134	0.2387	1	0.284	1	0.284	1	66.67
Dichlorodifluoromethane (ug/L)	MW-211B	3	1	0	0	1	1	1	1	1	100
Dichlorodifluoromethane (ug/L)	MW-213A	3	1	0	0	1	1	1	1	1	100
Dichlorodifluoromethane (ug/L)	MW-310A	1	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-312A	1	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-38A (bg)	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-216A	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-217A	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-218A	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-219A	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-220A	3	3	0	0	3	3	3	3	3	100
Dichlorodifluoromethane (ug/L)	MW-18AR	13	14.31	8.188	2.271	13.4	7.115	19.65	5.2	33.4	0
Endrin (ug/L)	MW-34A (bg)	3	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Endrin (ug/L)	MW-1B	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin (ug/L)	MW-5B	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Endrin (ug/L)	MW-7B1	5	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin (ug/L)	MW-8B	6	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin (ug/L)	MW-12B	4	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Endrin (ug/L)	MW-14B	4	0.02682	0.01436	0.007178	0.034	0.01965	0.034	0.00529	0.034	75
Endrin (ug/L)	MW-17A-00	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin (ug/L)	MW-23A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Endrin (ug/L)	MW-24A	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin (ug/L)	MW-25A-00	4	0.0344	0	0	0.0344	0.0344	0.0344	0.0344	0.0344	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Endrin (ug/L)	MW-29A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Endrin (ug/L)	MW-31B	4	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Endrin (ug/L)	MW-201A	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Endrin (ug/L)	MW-202A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin (ug/L)	MW-203A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin (ug/L)	MW-204A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin (ug/L)	MW-208B	19	0.06382	0.03686	0.008455	0.08	0.032	0.08	0.00438	0.122	47.37
Endrin (ug/L)	MW-210B	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Endrin (ug/L)	MW-215A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Endrin (ug/L)	MW-214A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Endrin (ug/L)	MW-200A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Endrin (ug/L)	MW-205A	3	0.03451	0.02682	0.01549	0.05	0.00354	0.05	0.00354	0.05	66.67
Endrin (ug/L)	MW-211B	3	0.03873	0.01951	0.01127	0.05	0.0162	0.05	0.0162	0.05	66.67
Endrin (ug/L)	MW-213A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Endrin (ug/L)	MW-310A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Endrin (ug/L)	MW-312A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Endrin (ug/L)	MW-38A (bg)	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Endrin (ug/L)	MW-216A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Endrin (ug/L)	MW-217A	3	0.0744	0	0	0.0744	0.0744	0.0744	0.0744	0.0744	100
Endrin (ug/L)	MW-218A	3	0.0711	0	0	0.0711	0.0711	0.0711	0.0711	0.0711	100
Endrin (ug/L)	MW-219A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Endrin (ug/L)	MW-220A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Endrin (ug/L)	MW-18AR	2	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Endrin aldehyde (ug/L)	MW-34A (bg)	9	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Endrin aldehyde (ug/L)	MW-1B	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin aldehyde (ug/L)	MW-5B	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Endrin aldehyde (ug/L)	MW-7B1	5	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin aldehyde (ug/L)	MW-8B	6	0.02952	0.009267	0.003783	0.0333	0.02195	0.0333	0.0106	0.0333	83.33
Endrin aldehyde (ug/L)	MW-12B	4	0.02778	0.01185	0.005925	0.0337	0.02185	0.0337	0.01	0.0337	75
Endrin aldehyde (ug/L)	MW-14B	4	0.034	0	0	0.034	0.034	0.034	0.034	0.034	100
Endrin aldehyde (ug/L)	MW-17A-00	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin aldehyde (ug/L)	MW-23A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Endrin aldehyde (ug/L)	MW-24A	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin aldehyde (ug/L)	MW-25A-00	4	0.0344	0	0	0.0344	0.0344	0.0344	0.0344	0.0344	100
Endrin aldehyde (ug/L)	MW-29A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Endrin aldehyde (ug/L)	MW-31B	4	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Endrin aldehyde (ug/L)	MW-201A	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Endrin aldehyde (ug/L)	MW-202A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin aldehyde (ug/L)	MW-203A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin aldehyde (ug/L)	MW-204A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Endrin aldehyde (ug/L)	MW-208B	3	0.02613	0.01311	0.007567	0.0337	0.011	0.0337	0.011	0.0337	66.67
Endrin aldehyde (ug/L)	MW-210B	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Endrin aldehyde (ug/L)	MW-215A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Endrin aldehyde (ug/L)	MW-214A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Endrin aldehyde (ug/L)	MW-200A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Endrin aldehyde (ug/L)	MW-205A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Endrin aldehyde (ug/L)	MW-211B	3	0.03664	0.02314	0.01336	0.05	0.00992	0.05	0.00992	0.05	66.67
Endrin aldehyde (ug/L)	MW-213A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Endrin aldehyde (ug/L)	MW-310A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Endrin aldehyde (ug/L)	MW-312A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Endrin aldehyde (ug/L)	MW-38A (bg)	4	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Endrin aldehyde (ug/L)	MW-39B (bg)	1	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Endrin aldehyde (ug/L)	MW-216A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Endrin aldehyde (ug/L)	MW-217A	3	0.0744	0	0	0.0744	0.0744	0.0744	0.0744	0.0744	100
Endrin aldehyde (ug/L)	MW-218A	3	0.0711	0	0	0.0711	0.0711	0.0711	0.0711	0.0711	100
Endrin aldehyde (ug/L)	MW-219A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Endrin aldehyde (ug/L)	MW-220A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Endrin aldehyde (ug/L)	MW-18AR	2	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Ethylbenzene (ug/L)	MW-34A (bg)	35	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-1B	35	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-8B	28	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-10B	12	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-12B	29	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-17A-00	30	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-23A	30	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-29A	36	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-31B	39	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-201A	32	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-203A	28	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-204A	30	1.076	0.225	0.04107	1	1	1	1	1.93	83.33
Ethylbenzene (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-210B	27	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-200A	33	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-205A	27	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-211B	32	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-213A	28	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-310A	15	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-312A	14	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
Ethylbenzene (ug/L)	MW-216A	29	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-217A	29	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-218A	29	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-219A	29	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-220A	29	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-18AR	13	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-408	7	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Ethylbenzene (ug/L)	MW-410	7	0.31	0	0	0.31	0.31	0.31	0.31	0.31	100
Heptachlor (ug/L)	MW-34A (bg)	9	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Heptachlor (ug/L)	MW-1B	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Heptachlor (ug/L)	MW-5B	4	0.0262	0.01501	0.007505	0.0337	0.01869	0.0337	0.00368	0.0337	75
Heptachlor (ug/L)	MW-7B1	5	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100

Box & Whiskers Plot

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<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
Heptachlor (ug/L)	MW-8B	6	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Heptachlor (ug/L)	MW-12B	4	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Heptachlor (ug/L)	MW-14B	4	0.02665	0.0147	0.00735	0.034	0.0193	0.034	0.0046	0.034	75
Heptachlor (ug/L)	MW-17A-00	4	0.02664	0.01332	0.00666	0.0333	0.01998	0.0333	0.00666	0.0333	75
Heptachlor (ug/L)	MW-23A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Heptachlor (ug/L)	MW-24A	4	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Heptachlor (ug/L)	MW-25A-00	4	0.0344	0	0	0.0344	0.0344	0.0344	0.0344	0.0344	100
Heptachlor (ug/L)	MW-29A	4	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Heptachlor (ug/L)	MW-31B	4	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Heptachlor (ug/L)	MW-201A	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Heptachlor (ug/L)	MW-202A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Heptachlor (ug/L)	MW-203A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Heptachlor (ug/L)	MW-204A	3	0.0333	0	0	0.0333	0.0333	0.0333	0.0333	0.0333	100
Heptachlor (ug/L)	MW-208B	10	0.03033	0.007338	0.00232	0.032	0.032	0.032	0.00999	0.0373	80
Heptachlor (ug/L)	MW-210B	3	0.0337	0	0	0.0337	0.0337	0.0337	0.0337	0.0337	100
Heptachlor (ug/L)	MW-215A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Heptachlor (ug/L)	MW-214A	3	0.033	0	0	0.033	0.033	0.033	0.033	0.033	100
Heptachlor (ug/L)	MW-200A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Heptachlor (ug/L)	MW-205A	3	0.03463	0.02663	0.01537	0.05	0.00388	0.05	0.00388	0.05	66.67
Heptachlor (ug/L)	MW-211B	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Heptachlor (ug/L)	MW-213A	3	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Heptachlor (ug/L)	MW-310A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Heptachlor (ug/L)	MW-312A	1	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Heptachlor (ug/L)	MW-38A (bg)	3	0.032	0	0	0.032	0.032	0.032	0.032	0.032	100
Heptachlor (ug/L)	MW-39B (bg)	1	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Heptachlor (ug/L)	MW-216A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Heptachlor (ug/L)	MW-217A	3	0.0744	0	0	0.0744	0.0744	0.0744	0.0744	0.0744	100
Heptachlor (ug/L)	MW-218A	3	0.0711	0	0	0.0711	0.0711	0.0711	0.0711	0.0711	100
Heptachlor (ug/L)	MW-219A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Heptachlor (ug/L)	MW-220A	3	0.064	0	0	0.064	0.064	0.064	0.064	0.064	100
Heptachlor (ug/L)	MW-18AR	2	0.05	0	0	0.05	0.05	0.05	0.05	0.05	100
Isobutanol (mg/L)	MW-34A (bg)	2	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-1B	4	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-5B	4	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-7B1	4	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-8B	4	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-12B	4	1	0	0	1	1	1	1	1	100
Isobutanol (mg/L)	MW-14B	4	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-17A-00	4	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-23A	4	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-24A	4	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-25A-00	4	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-29A	4	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-31B	4	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-201A	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-202A	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-203A	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-204A	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-208B	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-210B	3	10	0	0	10	10	10	10	10	100

Box & Whiskers Plot

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<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
Isobutanol (mg/L)	MW-215A	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-214A	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-200A	3	1	0	0	1	1	1	1	1	100
Isobutanol (mg/L)	MW-205A	3	1	0	0	1	1	1	1	1	100
Isobutanol (mg/L)	MW-211B	3	1	0	0	1	1	1	1	1	100
Isobutanol (mg/L)	MW-213A	3	1	0	0	1	1	1	1	1	100
Isobutanol (mg/L)	MW-310A	1	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-312A	1	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-216A	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-217A	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-218A	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-219A	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-220A	3	10	0	0	10	10	10	10	10	100
Isobutanol (mg/L)	MW-18AR	2	1	0	0	1	1	1	1	1	100
m/p-Cresol (ug/L)	MW-34A (bg)	3	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
m/p-Cresol (ug/L)	MW-1B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
m/p-Cresol (ug/L)	MW-5B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
m/p-Cresol (ug/L)	MW-7B1	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
m/p-Cresol (ug/L)	MW-8B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
m/p-Cresol (ug/L)	MW-12B	4	8	0	0	8	8	8	8	8	100
m/p-Cresol (ug/L)	MW-14B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
m/p-Cresol (ug/L)	MW-17A-00	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
m/p-Cresol (ug/L)	MW-23A	4	10.8	0	0	10.8	10.8	10.8	10.8	10.8	100
m/p-Cresol (ug/L)	MW-24A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
m/p-Cresol (ug/L)	MW-25A-00	4	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
m/p-Cresol (ug/L)	MW-29A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
m/p-Cresol (ug/L)	MW-31B	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
m/p-Cresol (ug/L)	MW-201A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
m/p-Cresol (ug/L)	MW-202A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
m/p-Cresol (ug/L)	MW-203A	3	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
m/p-Cresol (ug/L)	MW-204A	3	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
m/p-Cresol (ug/L)	MW-208B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
m/p-Cresol (ug/L)	MW-210B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
m/p-Cresol (ug/L)	MW-215A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
m/p-Cresol (ug/L)	MW-214A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
m/p-Cresol (ug/L)	MW-200A	3	8	0	0	8	8	8	8	8	100
m/p-Cresol (ug/L)	MW-205A	3	8	0	0	8	8	8	8	8	100
m/p-Cresol (ug/L)	MW-211B	3	8	0	0	8	8	8	8	8	100
m/p-Cresol (ug/L)	MW-213A	3	8	0	0	8	8	8	8	8	100
m/p-Cresol (ug/L)	MW-310A	1	10	0	0	10	10	10	10	10	100
m/p-Cresol (ug/L)	MW-312A	1	10	0	0	10	10	10	10	10	100
m/p-Cresol (ug/L)	MW-38A (bg)	1	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
m/p-Cresol (ug/L)	MW-216A	3	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
m/p-Cresol (ug/L)	MW-217A	3	10	0	0	10	10	10	10	10	100
m/p-Cresol (ug/L)	MW-218A	3	9.8	0	0	9.8	9.8	9.8	9.8	9.8	100
m/p-Cresol (ug/L)	MW-219A	5	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
m/p-Cresol (ug/L)	MW-220A	3	10	0	0	10	10	10	10	10	100
m/p-Cresol (ug/L)	MW-18AR	2	8	0	0	8	8	8	8	8	100
O-Toluidine (ug/L)	MW-34A (bg)	3	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
O-Toluidine (ug/L)	MW-1B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
O-Toluidine (ug/L)	MW-5B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
O-Toluidine (ug/L)	MW-7B1	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
O-Toluidine (ug/L)	MW-8B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
O-Toluidine (ug/L)	MW-12B	4	8	0	0	8	8	8	8	8	100
O-Toluidine (ug/L)	MW-14B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
O-Toluidine (ug/L)	MW-17A-00	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
O-Toluidine (ug/L)	MW-23A	4	10.8	0	0	10.8	10.8	10.8	10.8	10.8	100
O-Toluidine (ug/L)	MW-24A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
O-Toluidine (ug/L)	MW-25A-00	4	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
O-Toluidine (ug/L)	MW-29A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
O-Toluidine (ug/L)	MW-31B	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
O-Toluidine (ug/L)	MW-201A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
O-Toluidine (ug/L)	MW-202A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
O-Toluidine (ug/L)	MW-203A	3	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
O-Toluidine (ug/L)	MW-204A	3	7.127	5.15	2.973	10.1	1.18	10.1	1.18	10.1	66.67
O-Toluidine (ug/L)	MW-208B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
O-Toluidine (ug/L)	MW-210B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
O-Toluidine (ug/L)	MW-215A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
O-Toluidine (ug/L)	MW-214A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
O-Toluidine (ug/L)	MW-200A	3	8	0	0	8	8	8	8	8	100
O-Toluidine (ug/L)	MW-205A	3	8	0	0	8	8	8	8	8	100
O-Toluidine (ug/L)	MW-211B	3	8	0	0	8	8	8	8	8	100
O-Toluidine (ug/L)	MW-213A	3	8	0	0	8	8	8	8	8	100
O-Toluidine (ug/L)	MW-310A	1	10	0	0	10	10	10	10	10	100
O-Toluidine (ug/L)	MW-312A	1	10	0	0	10	10	10	10	10	100
O-Toluidine (ug/L)	MW-38A (bg)	1	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
O-Toluidine (ug/L)	MW-216A	3	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
O-Toluidine (ug/L)	MW-217A	3	10	0	0	10	10	10	10	10	100
O-Toluidine (ug/L)	MW-218A	3	9.8	0	0	9.8	9.8	9.8	9.8	9.8	100
O-Toluidine (ug/L)	MW-219A	5	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
O-Toluidine (ug/L)	MW-220A	3	10	0	0	10	10	10	10	10	100
O-Toluidine (ug/L)	MW-18AR	2	8	0	0	8	8	8	8	8	100
Phenol (ug/L)	MW-34A (bg)	3	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
Phenol (ug/L)	MW-1B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Phenol (ug/L)	MW-5B	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Phenol (ug/L)	MW-7B1	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Phenol (ug/L)	MW-8B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
Phenol (ug/L)	MW-12B	4	8	0	0	8	8	8	8	8	100
Phenol (ug/L)	MW-14B	4	10.2	0	0	10.2	10.2	10.2	10.2	10.2	100
Phenol (ug/L)	MW-17A-00	4	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Phenol (ug/L)	MW-23A	4	10.8	0	0	10.8	10.8	10.8	10.8	10.8	100
Phenol (ug/L)	MW-24A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
Phenol (ug/L)	MW-25A-00	4	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
Phenol (ug/L)	MW-29A	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
Phenol (ug/L)	MW-31B	4	10.3	0	0	10.3	10.3	10.3	10.3	10.3	100
Phenol (ug/L)	MW-201A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Phenol (ug/L)	MW-202A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Phenol (ug/L)	MW-203A	3	10.5	0	0	10.5	10.5	10.5	10.5	10.5	100
Phenol (ug/L)	MW-204A	3	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
Phenol (ug/L)	MW-208B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Phenol (ug/L)	MW-210B	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Phenol (ug/L)	MW-215A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Phenol (ug/L)	MW-214A	3	10.4	0	0	10.4	10.4	10.4	10.4	10.4	100
Phenol (ug/L)	MW-200A	3	8	0	0	8	8	8	8	8	100
Phenol (ug/L)	MW-205A	3	8	0	0	8	8	8	8	8	100
Phenol (ug/L)	MW-211B	3	8	0	0	8	8	8	8	8	100
Phenol (ug/L)	MW-213A	3	8	0	0	8	8	8	8	8	100
Phenol (ug/L)	MW-310A	1	10	0	0	10	10	10	10	10	100
Phenol (ug/L)	MW-312A	1	10	0	0	10	10	10	10	10	100
Phenol (ug/L)	MW-38A (bg)	1	10.1	0	0	10.1	10.1	10.1	10.1	10.1	100
Phenol (ug/L)	MW-216A	3	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
Phenol (ug/L)	MW-217A	3	10	0	0	10	10	10	10	10	100
Phenol (ug/L)	MW-218A	3	9.8	0	0	9.8	9.8	9.8	9.8	9.8	100
Phenol (ug/L)	MW-219A	5	10.6	0	0	10.6	10.6	10.6	10.6	10.6	100
Phenol (ug/L)	MW-220A	3	10	0	0	10	10	10	10	10	100
Phenol (ug/L)	MW-18AR	2	8	0	0	8	8	8	8	8	100
Tetrachloroethene (ug/L)	MW-34A (bg)	38	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-1B	35	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-8B	28	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-10B	12	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-12B	29	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-17A-00	30	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-23A	30	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-29A	36	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-31B	39	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-201A	32	0.492	0.1762	0.03115	0.48	0.48	0.48	0.194	1.39	90.63
Tetrachloroethene (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-203A	28	0.8463	0.2843	0.05373	1	0.8825	1	0.223	1	75
Tetrachloroethene (ug/L)	MW-204A	27	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-210B	27	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-200A	33	0.4806	0.003482	0.0006061	0.48	0.48	0.48	0.48	0.5	96.97
Tetrachloroethene (ug/L)	MW-205A	27	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-211B	32	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-213A	28	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-310A	15	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-312A	28	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
Tetrachloroethene (ug/L)	MW-216A	29	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-217A	29	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-218A	29	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-219A	29	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
Tetrachloroethene (ug/L)	MW-220A	29	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-18AR	12	4.339	0.5781	0.1669	4.26	3.955	4.51	3.6	5.5	0
Tetrachloroethene (ug/L)	MW-408	7	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Tetrachloroethene (ug/L)	MW-410	7	0.48	0	0	0.48	0.48	0.48	0.48	0.48	100
Toluene (ug/L)	MW-34A (bg)	35	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-1B	34	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-5B	28	0.9551	0.1386	0.02619	1	1	1	0.424	1	89.29
Toluene (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-8B	28	0.9714	0.1512	0.02857	1	1	1	0.2	1	96.43
Toluene (ug/L)	MW-10B	12	1.109	0.3782	0.1092	1	1	1	1	2.31	91.67
Toluene (ug/L)	MW-12B	29	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-17A-00	30	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-23A	29	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-29A	36	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-31B	39	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-201A	32	0.4259	0.02298	0.004063	0.43	0.43	0.43	0.3	0.43	96.88
Toluene (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-203A	28	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-204A	27	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-210B	27	0.9863	0.07111	0.01369	1	1	1	0.6305	1	96.3
Toluene (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-200A	33	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-205A	27	0.9698	0.2424	0.04666	1	1	1	0.231	1.67	88.89
Toluene (ug/L)	MW-211B	32	0.4223	0.04384	0.00775	0.43	0.43	0.43	0.182	0.43	96.88
Toluene (ug/L)	MW-213A	28	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-310A	15	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-312A	14	0.4207	0.03474	0.009286	0.43	0.43	0.43	0.3	0.43	92.86
Toluene (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
Toluene (ug/L)	MW-216A	29	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-217A	29	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-218A	29	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-219A	29	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-220A	29	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-18AR	13	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-408	7	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toluene (ug/L)	MW-410	7	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Toxaphene (ug/L)	MW-34A (bg)	7	2	0	0	2	2	2	2	2	100
Toxaphene (ug/L)	MW-1B	4	2.08	0	0	2.08	2.08	2.08	2.08	2.08	100
Toxaphene (ug/L)	MW-5B	4	2.11	0	0	2.11	2.11	2.11	2.11	2.11	100
Toxaphene (ug/L)	MW-7B1	18	2.095	0.06364	0.015	2.08	2.08	2.08	2.08	2.35	94.44
Toxaphene (ug/L)	MW-8B	18	2.468	0.8929	0.2105	2.08	2.08	2.08	2.08	4.52	83.33
Toxaphene (ug/L)	MW-12B	4	0.2	0	0	0.2	0.2	0.2	0.2	0.2	100
Toxaphene (ug/L)	MW-14B	4	2.13	0	0	2.13	2.13	2.13	2.13	2.13	100
Toxaphene (ug/L)	MW-17A-00	4	2.08	0	0	2.08	2.08	2.08	2.08	2.08	100

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Toxaphene (ug/L)	MW-23A	4	2.11	0	0	2.11	2.11	2.11	2.11	2.11	100
Toxaphene (ug/L)	MW-24A	4	2.08	0	0	2.08	2.08	2.08	2.08	2.08	100
Toxaphene (ug/L)	MW-25A-00	4	2.15	0	0	2.15	2.15	2.15	2.15	2.15	100
Toxaphene (ug/L)	MW-29A	4	2.11	0	0	2.11	2.11	2.11	2.11	2.11	100
Toxaphene (ug/L)	MW-31B	4	2.06	0	0	2.06	2.06	2.06	2.06	2.06	100
Toxaphene (ug/L)	MW-201A	3	2.11	0	0	2.11	2.11	2.11	2.11	2.11	100
Toxaphene (ug/L)	MW-202A	3	2.08	0	0	2.08	2.08	2.08	2.08	2.08	100
Toxaphene (ug/L)	MW-203A	3	2.08	0	0	2.08	2.08	2.08	2.08	2.08	100
Toxaphene (ug/L)	MW-204A	3	2.08	0	0	2.08	2.08	2.08	2.08	2.08	100
Toxaphene (ug/L)	MW-208B	3	2.11	0	0	2.11	2.11	2.11	2.11	2.11	100
Toxaphene (ug/L)	MW-210B	3	2.11	0	0	2.11	2.11	2.11	2.11	2.11	100
Toxaphene (ug/L)	MW-215A	3	2.06	0	0	2.06	2.06	2.06	2.06	2.06	100
Toxaphene (ug/L)	MW-214A	3	2.06	0	0	2.06	2.06	2.06	2.06	2.06	100
Toxaphene (ug/L)	MW-200A	3	0.2	0	0	0.2	0.2	0.2	0.2	0.2	100
Toxaphene (ug/L)	MW-205A	3	0.2	0	0	0.2	0.2	0.2	0.2	0.2	100
Toxaphene (ug/L)	MW-211B	3	0.2	0	0	0.2	0.2	0.2	0.2	0.2	100
Toxaphene (ug/L)	MW-213A	3	0.2	0	0	0.2	0.2	0.2	0.2	0.2	100
Toxaphene (ug/L)	MW-310A	1	2	0	0	2	2	2	2	2	100
Toxaphene (ug/L)	MW-312A	1	2	0	0	2	2	2	2	2	100
Toxaphene (ug/L)	MW-38A (bg)	1	2	0	0	2	2	2	2	2	100
Toxaphene (ug/L)	MW-39B (bg)	2	2.02	0	0	2.02	2.02	2.02	2.02	2.02	100
Toxaphene (ug/L)	MW-216A	3	2	0	0	2	2	2	2	2	100
Toxaphene (ug/L)	MW-217A	3	2.33	0	0	2.33	2.33	2.33	2.33	2.33	100
Toxaphene (ug/L)	MW-218A	3	2.22	0	0	2.22	2.22	2.22	2.22	2.22	100
Toxaphene (ug/L)	MW-219A	3	2	0	0	2	2	2	2	2	100
Toxaphene (ug/L)	MW-220A	3	2	0	0	2	2	2	2	2	100
Toxaphene (ug/L)	MW-18AR	2	0.2	0	0	0.2	0.2	0.2	0.2	0.2	100
trans-1,2-Dichloroethene (u...	MW-34A (bg)	35	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-1B	35	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-5B	29	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-7B1	29	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-8B	28	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-10B	12	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-12B	29	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-14B	29	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-17A-00	30	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-23A	30	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-24A	28	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-25A-00	35	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-29A	36	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-31B	39	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-201A	32	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-202A	28	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-203A	28	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-204A	27	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-208B	26	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-210B	27	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-215A	26	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-214A	27	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-200A	33	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100

Box & Whiskers Plot

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 9:22 PM

Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
trans-1,2-Dichloroethene (u...	MW-205A	27	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-211B	32	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-213A	28	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-310A	15	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-312A	14	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
trans-1,2-Dichloroethene (u...	MW-216A	29	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-217A	29	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-218A	29	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-219A	29	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-220A	29	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-18AR	13	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-408	7	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
trans-1,2-Dichloroethene (u...	MW-410	7	0.27	0	0	0.27	0.27	0.27	0.27	0.27	100
Trichloroethene (ug/L)	MW-34A (bg)	38	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-1B	35	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-8B	28	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-10B	12	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	MW-12B	29	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-17A-00	30	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-23A	30	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-29A	36	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	MW-31B	39	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	MW-201A	32	0.7498	0.948	0.1676	0.43	0.43	0.43	0.301	5.11	75
Trichloroethene (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-203A	28	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-204A	27	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-210B	27	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-200A	33	0.4291	0.005222	0.0009091	0.43	0.43	0.43	0.4	0.43	96.97
Trichloroethene (ug/L)	MW-205A	27	0.9778	0.1155	0.02222	1	1	1	0.4	1	96.3
Trichloroethene (ug/L)	MW-211B	32	0.4291	0.005303	0.0009375	0.43	0.43	0.43	0.4	0.43	96.88
Trichloroethene (ug/L)	MW-213A	28	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-310A	15	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	MW-312A	28	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
Trichloroethene (ug/L)	MW-216A	29	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	MW-217A	29	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	MW-218A	29	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	MW-219A	29	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	MW-220A	29	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Trichloroethene (ug/L)	MW-18AR	12	1.694	0.4083	0.1179	1.715	1.32	1.955	1.1	2.41	0
Trichloroethene (ug/L)	MW-408	7	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichloroethene (ug/L)	MW-410	7	0.43	0	0	0.43	0.43	0.43	0.43	0.43	100
Trichlorofluoromethane (ug/L)	MW-34A (bg)	35	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-1B	35	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
Trichlorofluoromethane (ug/L)	MW-7B1	29	1	0	0	1	1	1	1	1	100
Trichlorofluoromethane (ug/L)	MW-8B	28	1	0	0	1	1	1	1	1	100
Trichlorofluoromethane (ug/L)	MW-10B	12	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-12B	29	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
Trichlorofluoromethane (ug/L)	MW-17A-00	30	2.656	1.797	0.3281	4	0.396	4	0.218	4	63.33
Trichlorofluoromethane (ug/L)	MW-23A	30	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-24A	28	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-25A-00	35	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-29A	36	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-31B	39	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-201A	32	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-202A	28	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-203A	28	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-204A	27	1	0	0	1	1	1	1	1	100
Trichlorofluoromethane (ug/L)	MW-208B	26	1	0	0	1	1	1	1	1	100
Trichlorofluoromethane (ug/L)	MW-210B	27	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-215A	26	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-214A	27	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-200A	33	0.3547	0.06111	0.01064	0.38	0.38	0.38	0.184	0.38	84.85
Trichlorofluoromethane (ug/L)	MW-205A	27	1	0	0	1	1	1	1	1	100
Trichlorofluoromethane (ug/L)	MW-211B	32	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-213A	28	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-310A	15	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-312A	14	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-38A (bg)	24	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-39B (bg)	24	4	0	0	4	4	4	4	4	100
Trichlorofluoromethane (ug/L)	MW-216A	29	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-217A	29	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-218A	29	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-219A	29	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-220A	29	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-18AR	12	4.722	2.614	0.7545	4.25	2.22	7.285	1.83	8.43	0
Trichlorofluoromethane (ug/L)	MW-408	7	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Trichlorofluoromethane (ug/L)	MW-410	7	0.38	0	0	0.38	0.38	0.38	0.38	0.38	100
Vinyl Chloride (ug/L)	MW-34A (bg)	38	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-1B	35	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-5B	29	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-7B1	29	0.8388	0.2968	0.05512	1	0.7295	1	0.12	1	75.86
Vinyl Chloride (ug/L)	MW-8B	28	0.9715	0.1508	0.0285	1	1	1	0.202	1	96.43
Vinyl Chloride (ug/L)	MW-10B	12	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-12B	29	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-14B	29	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-17A-00	30	1	0	0	1	1	1	1	1	100

Box & Whiskers Plot

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Constituent	Well	N	Mean	Std. Dev.	Std. Err.	Median	Lower Q.	Upper Q.	Min.	Max.	%NDs
Vinyl Chloride (ug/L)	MW-23A	30	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-24A	28	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-25A-00	35	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-29A	36	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-31B	39	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-201A	32	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-202A	28	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-203A	28	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-204A	27	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-208B	26	0.9655	0.1761	0.03454	1	1	1	0.102	1	96.15
Vinyl Chloride (ug/L)	MW-210B	27	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-215A	26	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-214A	27	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-200A	33	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-205A	27	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-211B	32	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-213A	28	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-310A	15	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-312A	28	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-38A (bg)	24	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-39B (bg)	24	1	0	0	1	1	1	1	1	100
Vinyl Chloride (ug/L)	MW-216A	29	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-217A	29	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-218A	29	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-219A	29	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-220A	29	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-18AR	13	0.2438	0.1167	0.03237	0.18	0.18	0.284	0.18	0.5	69.23
Vinyl Chloride (ug/L)	MW-408	7	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Vinyl Chloride (ug/L)	MW-410	7	0.18	0	0	0.18	0.18	0.18	0.18	0.18	100
Xylenes, Total (ug/L)	MW-34A (bg)	31	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-1B	35	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-5B	29	2	0	0	2	2	2	2	2	100
Xylenes, Total (ug/L)	MW-7B1	29	2	0	0	2	2	2	2	2	100
Xylenes, Total (ug/L)	MW-8B	28	2	0	0	2	2	2	2	2	100
Xylenes, Total (ug/L)	MW-10B	12	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-12B	29	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-14B	29	2	0	0	2	2	2	2	2	100
Xylenes, Total (ug/L)	MW-17A-00	30	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-23A	30	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-24A	28	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-25A-00	35	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-29A	36	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-31B	39	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-201A	32	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-202A	28	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-203A	28	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-204A	26	1.86	0.4936	0.09681	2	2	2	0.172	2	92.31
Xylenes, Total (ug/L)	MW-208B	26	2	0	0	2	2	2	2	2	100
Xylenes, Total (ug/L)	MW-210B	27	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-215A	26	3	0	0	3	3	3	3	3	100

Box & Whiskers Plot

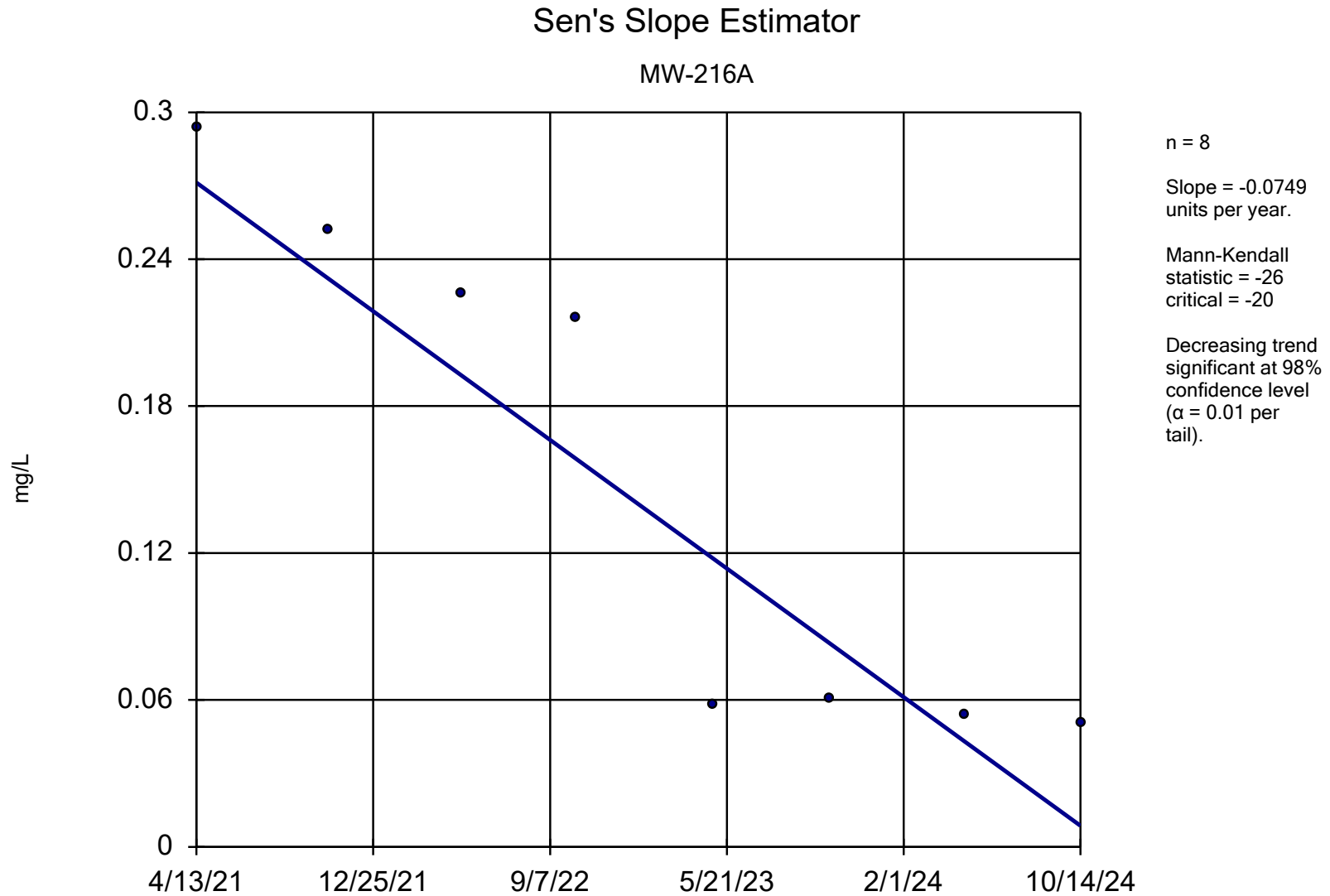
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<u>Constituent</u>	<u>Well</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Std. Err.</u>	<u>Median</u>	<u>Lower Q.</u>	<u>Upper Q.</u>	<u>Min.</u>	<u>Max.</u>	<u>%NDs</u>
Xylenes, Total (ug/L)	MW-214A	27	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-200A	33	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-205A	27	2	0	0	2	2	2	2	2	100
Xylenes, Total (ug/L)	MW-211B	32	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-213A	28	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-310A	15	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-312A	14	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-38A (bg)	24	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-39B (bg)	24	3	0	0	3	3	3	3	3	100
Xylenes, Total (ug/L)	MW-216A	29	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-217A	29	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-218A	29	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-219A	29	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-220A	29	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-18AR	13	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-408	7	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100
Xylenes, Total (ug/L)	MW-410	7	0.4	0	0	0.4	0.4	0.4	0.4	0.4	100

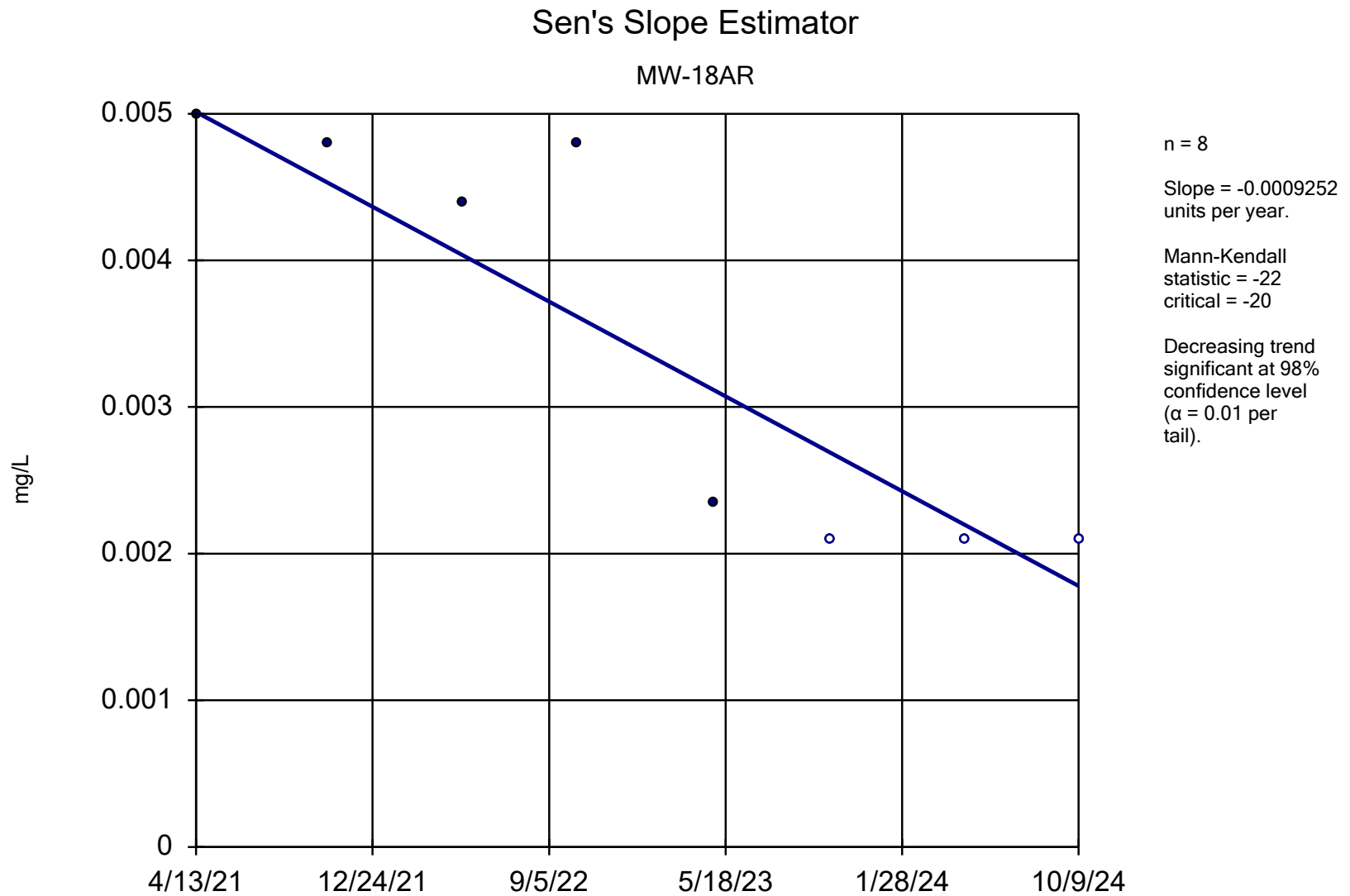
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Groundwater Monitoring Wells – **Trends**

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Constituent: Barium Analysis Run 1/23/2025 4:57 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill



Constituent: Nickel Analysis Run 1/23/2025 4:59 PM View: 05B_MW_Inorganics_PL_Fall
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Trend Test

Iowa City Landfill

Client: HDR

Data: Iowa City Sanitary Landfill

Printed 1/23/2025, 5:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-24A	0	7	20	No	8	87.5	0.02	NP
Antimony (mg/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-31B	1.5e-11	7	20	No	8	62.5	0.02	NP
Antimony (mg/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-39B (bg)	0	-3	-20	No	8	87.5	0.02	NP
Antimony (mg/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Antimony (mg/L)	MW-18AR	0	6	17	No	7	85.71	0.02	NP
Antimony (mg/L)	MW-408	0	2	17	No	7	85.71	0.02	NP
Antimony (mg/L)	MW-410	0	0	17	No	7	100	0.02	NP
Arsenic (mg/L)	MW-34A (bg)	0	-6	-20	No	8	62.5	0.02	NP
Arsenic (mg/L)	MW-1B	0	5	20	No	8	87.5	0.02	NP
Arsenic (mg/L)	MW-10B	0	-3	-20	No	8	75	0.02	NP
Arsenic (mg/L)	MW-24A	-0.0009974	-2	-20	No	8	0	0.02	NP
Arsenic (mg/L)	MW-25A-00	0	-7	-20	No	8	75	0.02	NP
Arsenic (mg/L)	MW-29A	-0.0002557	-14	-20	No	8	37.5	0.02	NP
Arsenic (mg/L)	MW-31B	-0.0002333	-13	-20	No	8	37.5	0.02	NP
Arsenic (mg/L)	MW-201A	0	-1	-20	No	8	87.5	0.02	NP
Arsenic (mg/L)	MW-200A	0	-1	-20	No	8	75	0.02	NP
Arsenic (mg/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Arsenic (mg/L)	MW-312A	0	-1	-20	No	8	87.5	0.02	NP
Arsenic (mg/L)	MW-38A (bg)	0	-3	-20	No	8	87.5	0.02	NP
Arsenic (mg/L)	MW-39B (bg)	0	-3	-20	No	8	87.5	0.02	NP
Arsenic (mg/L)	MW-216A	0	1	20	No	8	75	0.02	NP
Arsenic (mg/L)	MW-217A	0	-1	-20	No	8	87.5	0.02	NP
Arsenic (mg/L)	MW-218A	0	-1	-20	No	8	87.5	0.02	NP
Arsenic (mg/L)	MW-219A	0	-1	-20	No	8	87.5	0.02	NP
Arsenic (mg/L)	MW-220A	0	-1	-20	No	8	87.5	0.02	NP
Arsenic (mg/L)	MW-18AR	0	-8	-20	No	8	62.5	0.02	NP
Arsenic (mg/L)	MW-408	0	-1	-20	No	8	87.5	0.02	NP
Arsenic (mg/L)	MW-410	0	-1	-17	No	7	71.43	0.02	NP
Barium (mg/L)	MW-34A (bg)	0.0248	14	20	No	8	0	0.02	NP
Barium (mg/L)	MW-1B	0.01832	8	20	No	8	0	0.02	NP
Barium (mg/L)	MW-10B	0.001869	9	20	No	8	0	0.02	NP
Barium (mg/L)	MW-24A	0.0001404	1	20	No	8	0	0.02	NP
Barium (mg/L)	MW-25A-00	0.008641	14	20	No	8	0	0.02	NP
Barium (mg/L)	MW-29A	0.01993	12	20	No	8	0	0.02	NP
Barium (mg/L)	MW-31B	-0.005822	-2	-20	No	8	0	0.02	NP
Barium (mg/L)	MW-201A	0.0002966	0	20	No	8	0	0.02	NP

Trend Test

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	MW-200A	0.05831	10	20	No	8	0	0.02	NP
Barium (mg/L)	MW-310A	0.002743	2	20	No	8	0	0.02	NP
Barium (mg/L)	MW-312A	-0.001556	-8	-20	No	8	0	0.02	NP
Barium (mg/L)	MW-38A (bg)	0.004287	9	20	No	8	0	0.02	NP
Barium (mg/L)	MW-39B (bg)	0.008415	10	20	No	8	0	0.02	NP
Barium (mg/L)	MW-216A	-0.0749	-26	-20	Yes	8	0	0.02	NP
Barium (mg/L)	MW-217A	0.0004276	2	20	No	8	0	0.02	NP
Barium (mg/L)	MW-218A	0.01523	12	20	No	8	0	0.02	NP
Barium (mg/L)	MW-219A	0.03269	16	20	No	8	0	0.02	NP
Barium (mg/L)	MW-220A	0.009912	12	20	No	8	0	0.02	NP
Barium (mg/L)	MW-18AR	0.0306	10	20	No	8	0	0.02	NP
Barium (mg/L)	MW-408	-0.005515	-7	-17	No	7	0	0.02	NP
Barium (mg/L)	MW-410	-0.004022	-11	-17	No	7	0	0.02	NP
Beryllium (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-1B	0	5	20	No	8	87.5	0.02	NP
Beryllium (mg/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-31B	0	-1	-20	No	8	87.5	0.02	NP
Beryllium (mg/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-312A	0	5	20	No	8	87.5	0.02	NP
Beryllium (mg/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Beryllium (mg/L)	MW-18AR	0	0	17	No	7	100	0.02	NP
Beryllium (mg/L)	MW-408	0	2	17	No	7	85.71	0.02	NP
Beryllium (mg/L)	MW-410	0	0	17	No	7	100	0.02	NP
Cadmium (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	MW-1B	0	0	20	No	8	87.5	0.02	NP
Cadmium (mg/L)	MW-10B	0	4	20	No	8	62.5	0.02	NP
Cadmium (mg/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	MW-29A	0	1	20	No	8	75	0.02	NP
Cadmium (mg/L)	MW-31B	0	-5	-20	No	8	87.5	0.02	NP
Cadmium (mg/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	MW-312A	0	-5	-20	No	8	87.5	0.02	NP
Cadmium (mg/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	MW-39B (bg)	-0.000001086	-1	-20	No	8	25	0.02	NP
Cadmium (mg/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	MW-218A	0	3	20	No	8	87.5	0.02	NP

Trend Test

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Cadmium (mg/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Cadmium (mg/L)	MW-18AR	0	6	17	No	7	85.71	0.02	NP
Cadmium (mg/L)	MW-408	0.0000381	7	13	No	6	0	0.02	NP
Cadmium (mg/L)	MW-410	0	0	17	No	7	100	0.02	NP
Chromium (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Chromium (mg/L)	MW-1B	0	3	20	No	8	87.5	0.02	NP
Chromium (mg/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Chromium (mg/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Chromium (mg/L)	MW-25A-00	0.00008408	9	20	No	8	50	0.02	NP
Chromium (mg/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Chromium (mg/L)	MW-31B	0	-2	-20	No	8	50	0.02	NP
Chromium (mg/L)	MW-201A	0	-5	-20	No	8	75	0.02	NP
Chromium (mg/L)	MW-200A	0	-1	-20	No	8	75	0.02	NP
Chromium (mg/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Chromium (mg/L)	MW-312A	0	11	20	No	8	75	0.02	NP
Chromium (mg/L)	MW-38A (bg)	-0.0000293	-7	-20	No	8	0	0.02	NP
Chromium (mg/L)	MW-39B (bg)	0	-3	-20	No	8	87.5	0.02	NP
Chromium (mg/L)	MW-216A	0.00007307	14	20	No	8	62.5	0.02	NP
Chromium (mg/L)	MW-217A	-0.00008085	-11	-20	No	8	25	0.02	NP
Chromium (mg/L)	MW-218A	0	3	20	No	8	87.5	0.02	NP
Chromium (mg/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Chromium (mg/L)	MW-220A	0	-5	-20	No	8	87.5	0.02	NP
Chromium (mg/L)	MW-18AR	0	0	17	No	7	100	0.02	NP
Chromium (mg/L)	MW-408	0	-2	-17	No	7	85.71	0.02	NP
Chromium (mg/L)	MW-410	0	0	17	No	7	100	0.02	NP
Cobalt (mg/L)	MW-34A (bg)	0.0000759	11	20	No	8	37.5	0.02	NP
Cobalt (mg/L)	MW-1B	0	4	20	No	8	50	0.02	NP
Cobalt (mg/L)	MW-10B	0	3	20	No	8	75	0.02	NP
Cobalt (mg/L)	MW-24A	0.0003641	2	20	No	8	0	0.02	NP
Cobalt (mg/L)	MW-25A-00	0.00003862	10	20	No	8	50	0.02	NP
Cobalt (mg/L)	MW-29A	0.0001962	2	20	No	8	12.5	0.02	NP
Cobalt (mg/L)	MW-31B	-0.0003038	-8	-20	No	8	0	0.02	NP
Cobalt (mg/L)	MW-201A	-0.000009218	-9	-20	No	8	50	0.02	NP
Cobalt (mg/L)	MW-200A	0	0	20	No	8	50	0.02	NP
Cobalt (mg/L)	MW-310A	0	-3	-20	No	8	75	0.02	NP
Cobalt (mg/L)	MW-312A	-0.000008262	-10	-20	No	8	62.5	0.02	NP
Cobalt (mg/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Cobalt (mg/L)	MW-39B (bg)	0.0001031	8	20	No	8	0	0.02	NP
Cobalt (mg/L)	MW-216A	0	1	20	No	8	37.5	0.02	NP
Cobalt (mg/L)	MW-217A	0	3	20	No	8	75	0.02	NP
Cobalt (mg/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Cobalt (mg/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Cobalt (mg/L)	MW-220A	0	-5	-20	No	8	87.5	0.02	NP
Cobalt (mg/L)	MW-18AR	-0.0005749	-19	-20	No	8	50	0.02	NP
Cobalt (mg/L)	MW-408	0.00003025	1	13	No	6	16.67	0.02	NP
Cobalt (mg/L)	MW-410	-0.0002146	-19	-20	No	8	0	0.02	NP
Copper (mg/L)	MW-34A (bg)	0	-5	-20	No	8	87.5	0.02	NP
Copper (mg/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Copper (mg/L)	MW-10B	0	3	20	No	8	75	0.02	NP

Trend Test

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Copper (mg/L)	MW-24A	0	3	20	No	8	75	0.02	NP
Copper (mg/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Copper (mg/L)	MW-29A	0	2	20	No	8	50	0.02	NP
Copper (mg/L)	MW-31B	0	1	20	No	8	37.5	0.02	NP
Copper (mg/L)	MW-201A	0	3	20	No	8	75	0.02	NP
Copper (mg/L)	MW-200A	0	2	20	No	8	62.5	0.02	NP
Copper (mg/L)	MW-310A	0	5	20	No	8	75	0.02	NP
Copper (mg/L)	MW-312A	0	1	20	No	8	62.5	0.02	NP
Copper (mg/L)	MW-38A (bg)	0	-3	-20	No	8	75	0.02	NP
Copper (mg/L)	MW-39B (bg)	-0.0002626	-6	-20	No	8	50	0.02	NP
Copper (mg/L)	MW-216A	-0.00001086	-1	-20	No	8	25	0.02	NP
Copper (mg/L)	MW-217A	0	1	20	No	8	87.5	0.02	NP
Copper (mg/L)	MW-218A	0	1	20	No	8	75	0.02	NP
Copper (mg/L)	MW-219A	0	-1	-20	No	8	75	0.02	NP
Copper (mg/L)	MW-220A	0	0	20	No	8	50	0.02	NP
Copper (mg/L)	MW-18AR	0	1	20	No	8	75	0.02	NP
Copper (mg/L)	MW-408	0	-3	-17	No	7	71.43	0.02	NP
Copper (mg/L)	MW-410	-0.00004993	-4	-17	No	7	42.86	0.02	NP
Cyanide (mg/L)	MW-34A (bg)	0	0	17	No	7	100	0.02	NP
Cyanide (mg/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Cyanide (mg/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Cyanide (mg/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Cyanide (mg/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Cyanide (mg/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Cyanide (mg/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Cyanide (mg/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Cyanide (mg/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Cyanide (mg/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Cyanide (mg/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Cyanide (mg/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
Cyanide (mg/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Cyanide (mg/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Lead (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Lead (mg/L)	MW-1B	0	-3	-20	No	8	87.5	0.02	NP
Lead (mg/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Lead (mg/L)	MW-24A	0	-1	-20	No	8	75	0.02	NP
Lead (mg/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Lead (mg/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Lead (mg/L)	MW-31B	-0.0008895	-18	-20	No	8	12.5	0.02	NP
Lead (mg/L)	MW-201A	0	-1	-20	No	8	75	0.02	NP
Lead (mg/L)	MW-200A	0	1	20	No	8	87.5	0.02	NP
Lead (mg/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Lead (mg/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Lead (mg/L)	MW-38A (bg)	0	-5	-20	No	8	87.5	0.02	NP
Lead (mg/L)	MW-39B (bg)	0.00005808	12	20	No	8	50	0.02	NP
Lead (mg/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Lead (mg/L)	MW-217A	0	3	20	No	8	87.5	0.02	NP
Lead (mg/L)	MW-218A	0	3	20	No	8	87.5	0.02	NP
Lead (mg/L)	MW-219A	0	-7	-20	No	8	87.5	0.02	NP
Lead (mg/L)	MW-220A	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Lead (mg/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
Lead (mg/L)	MW-408	0	-2	-17	No	7	85.71	0.02	NP
Lead (mg/L)	MW-410	0	0	17	No	7	100	0.02	NP
Mercury (mg/L)	MW-34A (bg)	0	NaN	NaN	No	2	100	NaN	NP
Mercury (mg/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Mercury (mg/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Mercury (mg/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Mercury (mg/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Mercury (mg/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Mercury (mg/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Mercury (mg/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Mercury (mg/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Mercury (mg/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Mercury (mg/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Mercury (mg/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
Mercury (mg/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Mercury (mg/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Nickel (mg/L)	MW-34A (bg)	0	-1	-20	No	8	75	0.02	NP
Nickel (mg/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Nickel (mg/L)	MW-10B	0	1	20	No	8	87.5	0.02	NP
Nickel (mg/L)	MW-24A	0.0003838	4	20	No	8	12.5	0.02	NP
Nickel (mg/L)	MW-25A-00	0.001122	14	20	No	8	50	0.02	NP
Nickel (mg/L)	MW-29A	0.0007391	4	20	No	8	12.5	0.02	NP
Nickel (mg/L)	MW-31B	-0.0006042	-9	-20	No	8	25	0.02	NP
Nickel (mg/L)	MW-201A	0	9	20	No	8	62.5	0.02	NP
Nickel (mg/L)	MW-200A	0	9	20	No	8	75	0.02	NP
Nickel (mg/L)	MW-310A	0	3	20	No	8	75	0.02	NP
Nickel (mg/L)	MW-312A	0	-8	-20	No	8	62.5	0.02	NP
Nickel (mg/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Nickel (mg/L)	MW-39B (bg)	-0.00006879	-2	-20	No	8	0	0.02	NP
Nickel (mg/L)	MW-216A	-0.001076	-16	-20	No	8	0	0.02	NP
Nickel (mg/L)	MW-217A	0	9	20	No	8	75	0.02	NP
Nickel (mg/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Nickel (mg/L)	MW-219A	0	5	20	No	8	87.5	0.02	NP
Nickel (mg/L)	MW-220A	0	-5	-20	No	8	87.5	0.02	NP
Nickel (mg/L)	MW-18AR	-0.0009252	-22	-20	Yes	8	37.5	0.02	NP
Nickel (mg/L)	MW-408	0.0006486	5	13	No	6	16.67	0.02	NP
Nickel (mg/L)	MW-410	-0.0008523	-14	-17	No	7	14.29	0.02	NP
Selenium (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Selenium (mg/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Selenium (mg/L)	MW-10B	0.0003789	8	20	No	8	12.5	0.02	NP
Selenium (mg/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Selenium (mg/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Selenium (mg/L)	MW-29A	0	-3	-20	No	8	87.5	0.02	NP
Selenium (mg/L)	MW-31B	0	-5	-20	No	8	87.5	0.02	NP
Selenium (mg/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Selenium (mg/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Selenium (mg/L)	MW-310A	0	-9	-20	No	8	75	0.02	NP
Selenium (mg/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Selenium (mg/L)	MW-38A (bg)	0	3	20	No	8	87.5	0.02	NP

Trend Test

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Selenium (mg/L)	MW-39B (bg)	0	1	20	No	8	37.5	0.02	NP
Selenium (mg/L)	MW-216A	0	-7	-20	No	8	87.5	0.02	NP
Selenium (mg/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Selenium (mg/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Selenium (mg/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Selenium (mg/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Selenium (mg/L)	MW-18AR	0	0	17	No	7	100	0.02	NP
Selenium (mg/L)	MW-408	0	0	13	No	6	100	0.02	NP
Selenium (mg/L)	MW-410	0	0	17	No	7	100	0.02	NP
Silver (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Silver (mg/L)	MW-18AR	0	0	17	No	7	100	0.02	NP
Silver (mg/L)	MW-408	0	0	17	No	7	100	0.02	NP
Silver (mg/L)	MW-410	0	0	17	No	7	100	0.02	NP
Sulfide (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Sulfide (mg/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Sulfide (mg/L)	MW-24A	0	NaN	NaN	No	3	100	NaN	NP
Sulfide (mg/L)	MW-25A-00	0	NaN	NaN	No	3	100	NaN	NP
Sulfide (mg/L)	MW-29A	0	NaN	NaN	No	3	100	NaN	NP
Sulfide (mg/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Sulfide (mg/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Sulfide (mg/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Sulfide (mg/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Sulfide (mg/L)	MW-39B (bg)	0	0	8	No	4	100	0.02	NP
Sulfide (mg/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Sulfide (mg/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Sulfide (mg/L)	MW-218A	0	-3	-20	No	8	87.5	0.02	NP
Sulfide (mg/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Sulfide (mg/L)	MW-220A	0	NaN	NaN	No	3	66.67	NaN	NP
Sulfide (mg/L)	MW-18AR	0	3	20	No	8	87.5	0.02	NP
Thallium (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-1B	0	5	20	No	8	87.5	0.02	NP
Thallium (mg/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-24A	0	0	20	No	8	100	0.02	NP

Trend Test

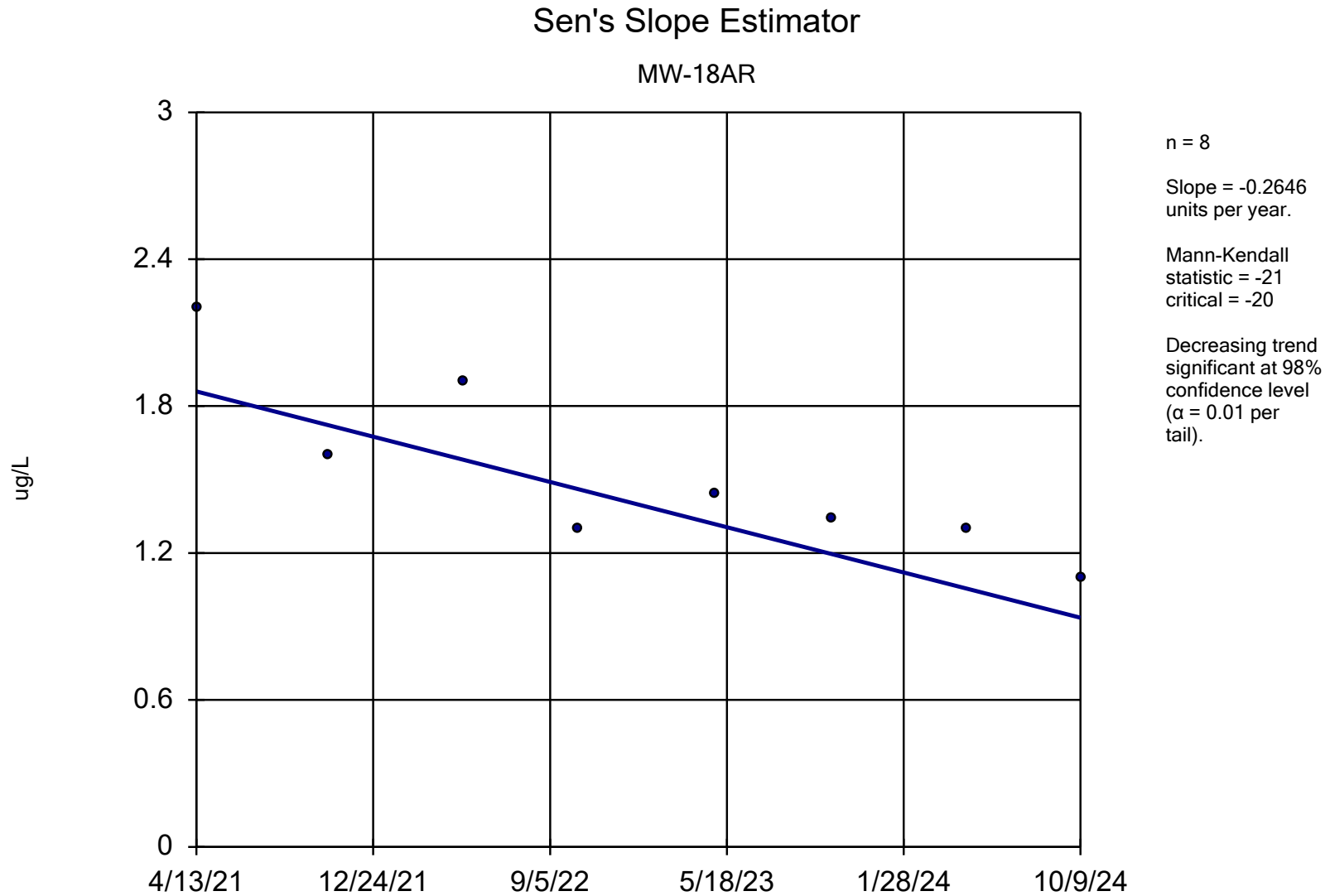
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Thallium (mg/L)	MW-25A-00	0	-5	-20	No	8	87.5	0.02	NP
Thallium (mg/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-31B	0.0000695	9	20	No	8	50	0.02	NP
Thallium (mg/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-312A	0	-1	-20	No	8	75	0.02	NP
Thallium (mg/L)	MW-38A (bg)	0	-1	-20	No	8	87.5	0.02	NP
Thallium (mg/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Thallium (mg/L)	MW-18AR	0	0	17	No	7	100	0.02	NP
Thallium (mg/L)	MW-408	0	-3	-17	No	7	71.43	0.02	NP
Thallium (mg/L)	MW-410	0	-2	-17	No	7	85.71	0.02	NP
Tin (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Tin (mg/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Tin (mg/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Tin (mg/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Tin (mg/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Tin (mg/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Tin (mg/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Tin (mg/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Tin (mg/L)	MW-38A (bg)	0	NaN	NaN	No	2	100	NaN	NP
Tin (mg/L)	MW-39B (bg)	0	1	8	No	4	75	0.02	NP
Tin (mg/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Tin (mg/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Tin (mg/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Tin (mg/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
Tin (mg/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Tin (mg/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Vanadium (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Vanadium (mg/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Vanadium (mg/L)	MW-10B	-0.0002089	-14	-20	No	8	62.5	0.02	NP
Vanadium (mg/L)	MW-24A	0	5	20	No	8	75	0.02	NP
Vanadium (mg/L)	MW-25A-00	0	-5	-20	No	8	87.5	0.02	NP
Vanadium (mg/L)	MW-29A	0	3	20	No	8	87.5	0.02	NP
Vanadium (mg/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Vanadium (mg/L)	MW-201A	0.0002187	5	20	No	8	37.5	0.02	NP
Vanadium (mg/L)	MW-200A	0.0003143	3	20	No	8	25	0.02	NP
Vanadium (mg/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Vanadium (mg/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Vanadium (mg/L)	MW-38A (bg)	-0.000002791	-1	-20	No	8	25	0.02	NP
Vanadium (mg/L)	MW-39B (bg)	0.0001572	3	20	No	8	25	0.02	NP
Vanadium (mg/L)	MW-216A	0	5	20	No	8	75	0.02	NP
Vanadium (mg/L)	MW-217A	0	3	20	No	8	87.5	0.02	NP
Vanadium (mg/L)	MW-218A	0	-7	-20	No	8	75	0.02	NP
Vanadium (mg/L)	MW-219A	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:02 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Vanadium (mg/L)	MW-220A	0	3	20	No	8	87.5	0.02	NP
Vanadium (mg/L)	MW-18AR	0	9	17	No	7	71.43	0.02	NP
Vanadium (mg/L)	MW-408	-0.006347	-12	-17	No	7	28.57	0.02	NP
Vanadium (mg/L)	MW-410	0	2	17	No	7	85.71	0.02	NP
Zinc (mg/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Zinc (mg/L)	MW-1B	0	3	20	No	8	87.5	0.02	NP
Zinc (mg/L)	MW-10B	0	-3	-20	No	8	87.5	0.02	NP
Zinc (mg/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Zinc (mg/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Zinc (mg/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Zinc (mg/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Zinc (mg/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Zinc (mg/L)	MW-200A	0	5	20	No	8	87.5	0.02	NP
Zinc (mg/L)	MW-310A	0	-7	-20	No	8	87.5	0.02	NP
Zinc (mg/L)	MW-312A	0	-7	-20	No	8	87.5	0.02	NP
Zinc (mg/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Zinc (mg/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Zinc (mg/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Zinc (mg/L)	MW-217A	0	3	20	No	8	87.5	0.02	NP
Zinc (mg/L)	MW-218A	0	3	20	No	8	87.5	0.02	NP
Zinc (mg/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Zinc (mg/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Zinc (mg/L)	MW-18AR	0	0	17	No	7	100	0.02	NP
Zinc (mg/L)	MW-408	0	0	17	No	7	100	0.02	NP
Zinc (mg/L)	MW-410	0	-2	-17	No	7	85.71	0.02	NP



Constituent: Trichloroethene Analysis Run 1/21/2025 10:02 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,1,1-Trichloroethane (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
1,1,1-Trichloroethane (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-7B1	-0.01276	-6	-20	No	8	0	0.02	NP
1,1-Dichloroethane (ug/L)	MW-8B	0	-2	-20	No	8	50	0.02	NP
1,1-Dichloroethane (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-12B	-0.00421	-6	-20	No	8	50	0.02	NP
1,1-Dichloroethane (ug/L)	MW-14B	0.1129	4	20	No	8	12.5	0.02	NP
1,1-Dichloroethane (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethane (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-201A	0	-7	-20	No	8	87.5	0.02	NP
1,1-Dichloroethane (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-39B (bg)	0	-7	-20	No	8	87.5	0.02	NP
1,1-Dichloroethane (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-18AR	-0.1035	-8	-20	No	8	0	0.02	NP
1,1-Dichloroethane (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
1,1-Dichloroethane (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-8B	0	5	20	No	8	87.5	0.02	NP
1,2-Dichloroethane (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-203A	0	7	20	No	8	87.5	0.02	NP
1,2-Dichloroethane (ug/L)	MW-204A	0	7	20	No	8	87.5	0.02	NP
1,2-Dichloroethane (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,2-Dichloroethane (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
1,2-Dichloroethane (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,2-Dichloropropane (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
1,2-Dichloropropane (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-7B1	0	0	8	No	4	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-8B	0	0	8	No	4	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-12B	-0.03791	-3	-8	No	4	75	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-208B	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-38A (bg)	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
2,4,5-TP [Silvex] (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-34A (bg)	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-7B1	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-8B	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
2,4-Dimethylphenol (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-208B	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-219A	0	0	10	No	5	100	0.02	NP
2,4-Dimethylphenol (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
2,4-Dimethylphenol (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
2-Butanone [MEK] (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
2-Butanone [MEK] (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
2-Butanone [MEK] (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-34A (bg)	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-7B1	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-8B	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-208B	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-219A	0	0	10	No	5	100	0.02	NP
2-Methylnaphthalene (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylnaphthalene (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
2-Methylphenol (ug/L)	MW-34A (bg)	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-7B1	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-8B	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
2-Methylphenol (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
2-Methylphenol (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-208B	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-219A	0	0	10	No	5	100	0.02	NP
2-Methylphenol (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
2-Methylphenol (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
4,4'-DDD (ug/L)	MW-34A (bg)	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
4,4'-DDD (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
4,4'-DDD (ug/L)	MW-7B1	0	0	10	No	5	100	0.02	NP
4,4'-DDD (ug/L)	MW-8B	-0.001523	-9	-13	No	6	66.67	0.02	NP
4,4'-DDD (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
4,4'-DDD (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
4,4'-DDD (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
4,4'-DDD (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
4,4'-DDD (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
4,4'-DDD (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
4,4'-DDD (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
4,4'-DDD (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
4,4'-DDD (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-208B	0	1	20	No	8	87.5	0.02	NP
4,4'-DDD (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-205A	0	NaN	NaN	No	3	66.67	NaN	NP
4,4'-DDD (ug/L)	MW-211B	0	NaN	NaN	No	3	66.67	NaN	NP
4,4'-DDD (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDD (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
4,4'-DDT (ug/L)	MW-34A (bg)	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
4,4'-DDT (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
4,4'-DDT (ug/L)	MW-7B1	0	0	10	No	5	100	0.02	NP

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Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
4,4'-DDT (ug/L)	MW-8B	0	0	13	No	6	100	0.02	NP
4,4'-DDT (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
4,4'-DDT (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
4,4'-DDT (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
4,4'-DDT (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
4,4'-DDT (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
4,4'-DDT (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
4,4'-DDT (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
4,4'-DDT (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
4,4'-DDT (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
4,4'-DDT (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-205A	0	NaN	NaN	No	3	66.67	NaN	NP
4,4'-DDT (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
4,4'-DDT (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP

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<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-38A (bg)	0	-3	-20	No	8	87.5	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-216A	0	3	20	No	8	87.5	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-217A	0	3	20	No	8	87.5	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-218A	0	3	20	No	8	87.5	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
4-Methyl-2-pentanone [MIBK] (ug/L)	MW-410	0	2	17	No	7	85.71	0.02	NP
Acetone (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-5B	1.846	14	20	No	8	50	0.02	NP
Acetone (ug/L)	MW-7B1	0	7	20	No	8	75	0.02	NP
Acetone (ug/L)	MW-8B	0.8289	12	20	No	8	50	0.02	NP
Acetone (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-12B	0	7	20	No	8	87.5	0.02	NP
Acetone (ug/L)	MW-14B	0.4951	12	20	No	8	62.5	0.02	NP
Acetone (ug/L)	MW-17A-00	0	1	20	No	8	87.5	0.02	NP
Acetone (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-204A	0	7	20	No	8	87.5	0.02	NP
Acetone (ug/L)	MW-208B	0.7157	12	20	No	8	62.5	0.02	NP
Acetone (ug/L)	MW-210B	0	7	20	No	8	87.5	0.02	NP
Acetone (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-214A	0	5	20	No	8	87.5	0.02	NP
Acetone (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-205A	0	1	20	No	8	87.5	0.02	NP
Acetone (ug/L)	MW-211B	0	3	20	No	8	87.5	0.02	NP
Acetone (ug/L)	MW-213A	0	3	20	No	8	87.5	0.02	NP
Acetone (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Acetone (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
Acetone (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Acetone (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Benzene (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-8B	0.006032	5	20	No	8	37.5	0.02	NP
Benzene (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-204A	0	7	20	No	8	87.5	0.02	NP
Benzene (ug/L)	MW-208B	-0.03529	-8	-20	No	8	0	0.02	NP
Benzene (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-205A	0	5	20	No	8	75	0.02	NP
Benzene (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-39B (bg)	0	-5	-20	No	8	87.5	0.02	NP
Benzene (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
Benzene (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Benzene (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Benzyl alcohol (ug/L)	MW-34A (bg)	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Benzyl alcohol (ug/L)	MW-5B	0	-1	-8	No	4	75	0.02	NP
Benzyl alcohol (ug/L)	MW-7B1	0	0	8	No	4	100	0.02	NP
Benzyl alcohol (ug/L)	MW-8B	0	0	8	No	4	100	0.02	NP
Benzyl alcohol (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
Benzyl alcohol (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
Benzyl alcohol (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
Benzyl alcohol (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Benzyl alcohol (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Benzyl alcohol (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Benzyl alcohol (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Benzyl alcohol (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Benzyl alcohol (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-208B	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-219A	0	0	10	No	5	100	0.02	NP
Benzyl alcohol (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Benzyl alcohol (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Beta-BHC (ug/L)	MW-34A (bg)	0	0	17	No	7	100	0.02	NP
Beta-BHC (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Beta-BHC (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
Beta-BHC (ug/L)	MW-7B1	0	0	10	No	5	100	0.02	NP
Beta-BHC (ug/L)	MW-8B	0	0	13	No	6	100	0.02	NP
Beta-BHC (ug/L)	MW-12B	0	-1	-8	No	4	75	0.02	NP
Beta-BHC (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
Beta-BHC (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
Beta-BHC (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
Beta-BHC (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Beta-BHC (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Beta-BHC (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Beta-BHC (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Beta-BHC (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-204A	-0.002749	NaN	NaN	No	3	66.67	NaN	NP
Beta-BHC (ug/L)	MW-208B	0.005064	NaN	NaN	No	3	33.33	NaN	NP
Beta-BHC (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-205A	0	NaN	NaN	No	3	66.67	NaN	NP
Beta-BHC (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Beta-BHC (ug/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Beta-BHC (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-34A (bg)	0	NaN	NaN	No	2	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-7B1	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-8B	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-208B	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-219A	0	0	10	No	5	100	0.02	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-chloroethoxy]methane (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-34A (bg)	0	NaN	NaN	No	2	100	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-5B	0	-1	-8	No	4	75	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-7B1	0	-1	-8	No	4	75	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-8B	0	-1	-8	No	4	75	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-12B	0	1	13	No	6	66.67	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-14B	0	-1	-8	No	4	75	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-17A-00	0	-1	-8	No	4	75	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-23A	0	-1	-8	No	4	75	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-24A	0	-1	-8	No	4	75	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-25A-00	0	-1	-8	No	4	75	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-31B	2.688	13	20	No	8	62.5	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-201A	0	13	20	No	8	75	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-202A	0	NaN	NaN	No	3	66.67	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-203A	0	NaN	NaN	No	3	66.67	NaN	NP

Trend Test

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<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Bis[2-ethylhexyl]phthalate (ug/L)	MW-204A	0	NaN	NaN	No	3	66.67	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-208B	0	NaN	NaN	No	3	66.67	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-210B	0	NaN	NaN	No	3	66.67	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-215A	0	13	20	No	8	75	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-214A	2.956	14	20	No	8	62.5	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-200A	0	NaN	NaN	No	3	66.67	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-205A	0	NaN	NaN	No	3	66.67	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-211B	0	NaN	NaN	No	3	66.67	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-213A	0	NaN	NaN	No	3	66.67	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-219A	0	0	10	No	5	80	0.02	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Bis[2-ethylhexyl]phthalate (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Carbon Disulfide (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-23A	0	7	20	No	8	87.5	0.02	NP
Carbon Disulfide (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP

Trend Test

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<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Carbon Disulfide (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
Carbon Disulfide (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Carbon Disulfide (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-1B	0	1	20	No	8	87.5	0.02	NP
Carbon Tetrachloride (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-25A-00	0	1	20	No	8	87.5	0.02	NP
Carbon Tetrachloride (ug/L)	MW-29A	0	3	20	No	8	87.5	0.02	NP
Carbon Tetrachloride (ug/L)	MW-31B	0	3	20	No	8	87.5	0.02	NP
Carbon Tetrachloride (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-312A	0	5	20	No	8	87.5	0.02	NP
Carbon Tetrachloride (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-220A	0	3	20	No	8	87.5	0.02	NP
Carbon Tetrachloride (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Carbon Tetrachloride (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Chlorobenzene (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Chlorobenzene (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
Chlorobenzene (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Chlorobenzene (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Chloroethane (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-8B	0	1	20	No	8	87.5	0.02	NP
Chloroethane (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-204A	0	-3	-20	No	8	75	0.02	NP
Chloroethane (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Chloroethane (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
Chloroethane (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Chloroethane (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Chloromethane (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP

Trend Test

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Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Chloromethane (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
Chloromethane (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Chloromethane (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-1B	0	-3	-20	No	8	87.5	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-7B1	0	7	20	No	8	87.5	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-201A	0	-1	-20	No	8	87.5	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-208B	0	13	20	No	8	75	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-205A	0	-5	-20	No	8	87.5	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-18AR	-0.1605	-17	-20	No	8	0	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Delta-BHC (ug/L)	MW-34A (bg)	0	0	8	No	4	100	0.02	NP
Delta-BHC (ug/L)	MW-1B	-0.001331	-3	-8	No	4	75	0.02	NP
Delta-BHC (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
Delta-BHC (ug/L)	MW-7B1	0	0	10	No	5	100	0.02	NP
Delta-BHC (ug/L)	MW-8B	0	0	13	No	6	100	0.02	NP
Delta-BHC (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
Delta-BHC (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Delta-BHC (ug/L)	MW-17A-00	-0.001373	-3	-8	No	4	75	0.02	NP
Delta-BHC (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
Delta-BHC (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Delta-BHC (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Delta-BHC (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Delta-BHC (ug/L)	MW-31B	-0.00136	-3	-8	No	4	75	0.02	NP
Delta-BHC (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-204A	0	NaN	NaN	No	3	66.67	NaN	NP
Delta-BHC (ug/L)	MW-208B	0.004758	NaN	NaN	No	3	33.33	NaN	NP
Delta-BHC (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-205A	0	NaN	NaN	No	3	66.67	NaN	NP
Delta-BHC (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-38A (bg)	0	NaN	NaN	No	2	100	NaN	NP
Delta-BHC (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Delta-BHC (ug/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Delta-BHC (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-7B1	0	0	8	No	4	100	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-8B	0	-1	-8	No	4	75	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-17A-00	-0.2036	-3	-8	No	4	50	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-208B	0	NaN	NaN	No	3	66.67	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-200A	-0.1872	-12	-20	No	8	0	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-205A	0	NaN	NaN	No	3	66.67	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP

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Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Dichlorodifluoromethane (ug/L)	MW-38A (bg)	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Dichlorodifluoromethane (ug/L)	MW-18AR	-3.482	-16	-20	No	8	0	0.02	NP
Endrin (ug/L)	MW-34A (bg)	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Endrin (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
Endrin (ug/L)	MW-7B1	0	0	10	No	5	100	0.02	NP
Endrin (ug/L)	MW-8B	0	0	13	No	6	100	0.02	NP
Endrin (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
Endrin (ug/L)	MW-14B	0	-1	-8	No	4	75	0.02	NP
Endrin (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
Endrin (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
Endrin (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Endrin (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Endrin (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Endrin (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Endrin (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-208B	0	9	20	No	8	75	0.02	NP
Endrin (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-205A	0	NaN	NaN	No	3	66.67	NaN	NP
Endrin (ug/L)	MW-211B	0	NaN	NaN	No	3	66.67	NaN	NP
Endrin (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Endrin (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Endrin aldehyde (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Endrin aldehyde (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Endrin aldehyde (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
Endrin aldehyde (ug/L)	MW-7B1	0	0	10	No	5	100	0.02	NP
Endrin aldehyde (ug/L)	MW-8B	0	-3	-13	No	6	83.33	0.02	NP
Endrin aldehyde (ug/L)	MW-12B	-0.0009075	-3	-8	No	4	75	0.02	NP
Endrin aldehyde (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
Endrin aldehyde (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
Endrin aldehyde (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
Endrin aldehyde (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Endrin aldehyde (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Endrin aldehyde (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP

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<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Endrin aldehyde (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Endrin aldehyde (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-208B	0.004157	NaN	NaN	No	3	66.67	NaN	NP
Endrin aldehyde (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-211B	0	NaN	NaN	No	3	66.67	NaN	NP
Endrin aldehyde (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-38A (bg)	0	0	8	No	4	100	0.02	NP
Endrin aldehyde (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Endrin aldehyde (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Ethylbenzene (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP

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<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Ethylbenzene (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
Ethylbenzene (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Ethylbenzene (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Heptachlor (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Heptachlor (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Heptachlor (ug/L)	MW-5B	0	-1	-8	No	4	75	0.02	NP
Heptachlor (ug/L)	MW-7B1	0	0	10	No	5	100	0.02	NP
Heptachlor (ug/L)	MW-8B	0	0	13	No	6	100	0.02	NP
Heptachlor (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
Heptachlor (ug/L)	MW-14B	0	-1	-8	No	4	75	0.02	NP
Heptachlor (ug/L)	MW-17A-00	0	-1	-8	No	4	75	0.02	NP
Heptachlor (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
Heptachlor (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Heptachlor (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Heptachlor (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Heptachlor (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Heptachlor (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-208B	0	-1	-20	No	8	75	0.02	NP
Heptachlor (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-205A	0	NaN	NaN	No	3	66.67	NaN	NP
Heptachlor (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-38A (bg)	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Heptachlor (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Isobutanol (mg/L)	MW-34A (bg)	0	NaN	NaN	No	2	100	NaN	NP
Isobutanol (mg/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Isobutanol (mg/L)	MW-5B	0	0	8	No	4	100	0.02	NP
Isobutanol (mg/L)	MW-7B1	0	0	8	No	4	100	0.02	NP
Isobutanol (mg/L)	MW-8B	0	0	8	No	4	100	0.02	NP
Isobutanol (mg/L)	MW-12B	0	0	8	No	4	100	0.02	NP
Isobutanol (mg/L)	MW-14B	0	0	8	No	4	100	0.02	NP
Isobutanol (mg/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
Isobutanol (mg/L)	MW-23A	0	0	8	No	4	100	0.02	NP
Isobutanol (mg/L)	MW-24A	0	0	8	No	4	100	0.02	NP

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<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Isobutanol (mg/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Isobutanol (mg/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Isobutanol (mg/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Isobutanol (mg/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-208B	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Isobutanol (mg/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
m/p-Cresol (ug/L)	MW-34A (bg)	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-7B1	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-8B	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
m/p-Cresol (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-208B	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-219A	0	0	10	No	5	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
m/p-Cresol (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
m/p-Cresol (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
O-Toluidine (ug/L)	MW-34A (bg)	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-7B1	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-8B	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
O-Toluidine (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-204A	0	NaN	NaN	No	3	66.67	NaN	NP
O-Toluidine (ug/L)	MW-208B	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-219A	0	0	10	No	5	100	0.02	NP
O-Toluidine (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
O-Toluidine (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Phenol (ug/L)	MW-34A (bg)	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-7B1	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-8B	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Phenol (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Phenol (ug/L)	MW-208B	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-219A	0	0	10	No	5	100	0.02	NP
Phenol (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Phenol (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
Tetrachloroethene (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-203A	0	7	20	No	8	87.5	0.02	NP
Tetrachloroethene (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-200A	0	-5	-20	No	8	87.5	0.02	NP
Tetrachloroethene (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Tetrachloroethene (ug/L)	MW-18AR	-0.4283	-16	-20	No	8	0	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Tetrachloroethene (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Tetrachloroethene (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Toluene (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-5B	0	5	20	No	8	75	0.02	NP
Toluene (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-10B	0	7	20	No	8	87.5	0.02	NP
Toluene (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-201A	0	5	20	No	8	87.5	0.02	NP
Toluene (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-205A	0	3	20	No	8	87.5	0.02	NP
Toluene (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-312A	0	3	20	No	8	87.5	0.02	NP
Toluene (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
Toluene (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Toluene (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Toxaphene (ug/L)	MW-34A (bg)	0	0	17	No	7	100	0.02	NP
Toxaphene (ug/L)	MW-1B	0	0	8	No	4	100	0.02	NP
Toxaphene (ug/L)	MW-5B	0	0	8	No	4	100	0.02	NP
Toxaphene (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Toxaphene (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Toxaphene (ug/L)	MW-12B	0	0	8	No	4	100	0.02	NP
Toxaphene (ug/L)	MW-14B	0	0	8	No	4	100	0.02	NP
Toxaphene (ug/L)	MW-17A-00	0	0	8	No	4	100	0.02	NP
Toxaphene (ug/L)	MW-23A	0	0	8	No	4	100	0.02	NP
Toxaphene (ug/L)	MW-24A	0	0	8	No	4	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Toxaphene (ug/L)	MW-25A-00	0	0	8	No	4	100	0.02	NP
Toxaphene (ug/L)	MW-29A	0	0	8	No	4	100	0.02	NP
Toxaphene (ug/L)	MW-31B	0	0	8	No	4	100	0.02	NP
Toxaphene (ug/L)	MW-201A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-202A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-203A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-204A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-208B	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-210B	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-215A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-214A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-200A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-205A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-211B	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-213A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-39B (bg)	0	NaN	NaN	No	2	100	NaN	NP
Toxaphene (ug/L)	MW-216A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-217A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-218A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-219A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-220A	0	NaN	NaN	No	3	100	NaN	NP
Toxaphene (ug/L)	MW-18AR	0	NaN	NaN	No	2	100	NaN	NP
trans-1,2-Dichloroethene (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
trans-1,2-Dichloroethene (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
trans-1,2-Dichloroethene (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Trichloroethene (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-200A	0	5	20	No	8	87.5	0.02	NP
Trichloroethene (ug/L)	MW-205A	0	-7	-20	No	8	87.5	0.02	NP
Trichloroethene (ug/L)	MW-211B	0	5	20	No	8	87.5	0.02	NP
Trichloroethene (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Trichloroethene (ug/L)	MW-18AR	-0.2646	-21	-20	Yes	8	0	0.02	NP
Trichloroethene (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Trichloroethene (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Trichlorofluoromethane (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-17A-00	0	0	20	No	8	37.5	0.02	NP
Trichlorofluoromethane (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-18AR	-1.018	-14	-20	No	8	0	0.02	NP
Trichlorofluoromethane (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Trichlorofluoromethane (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Vinyl Chloride (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-7B1	0.0176	6	20	No	8	50	0.02	NP
Vinyl Chloride (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Vinyl Chloride (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Vinyl Chloride (ug/L)	MW-18AR	0	-7	-20	No	8	87.5	0.02	NP
Vinyl Chloride (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Vinyl Chloride (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP
Xylenes, Total (ug/L)	MW-34A (bg)	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-1B	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-5B	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-7B1	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-8B	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-10B	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-12B	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-14B	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-17A-00	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-23A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-24A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-25A-00	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-29A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-31B	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-201A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-202A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-203A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-204A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-208B	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-210B	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-215A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-214A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-200A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-205A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-211B	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-213A	0	0	20	No	8	100	0.02	NP

Trend Test

Iowa City Landfill Data: Iowa City Sanitary Landfill Printed 1/21/2025, 10:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Xylenes, Total (ug/L)	MW-310A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-312A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-38A (bg)	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-39B (bg)	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-216A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-217A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-218A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-219A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-220A	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-18AR	0	0	20	No	8	100	0.02	NP
Xylenes, Total (ug/L)	MW-408	0	0	17	No	7	100	0.02	NP
Xylenes, Total (ug/L)	MW-410	0	0	17	No	7	100	0.02	NP

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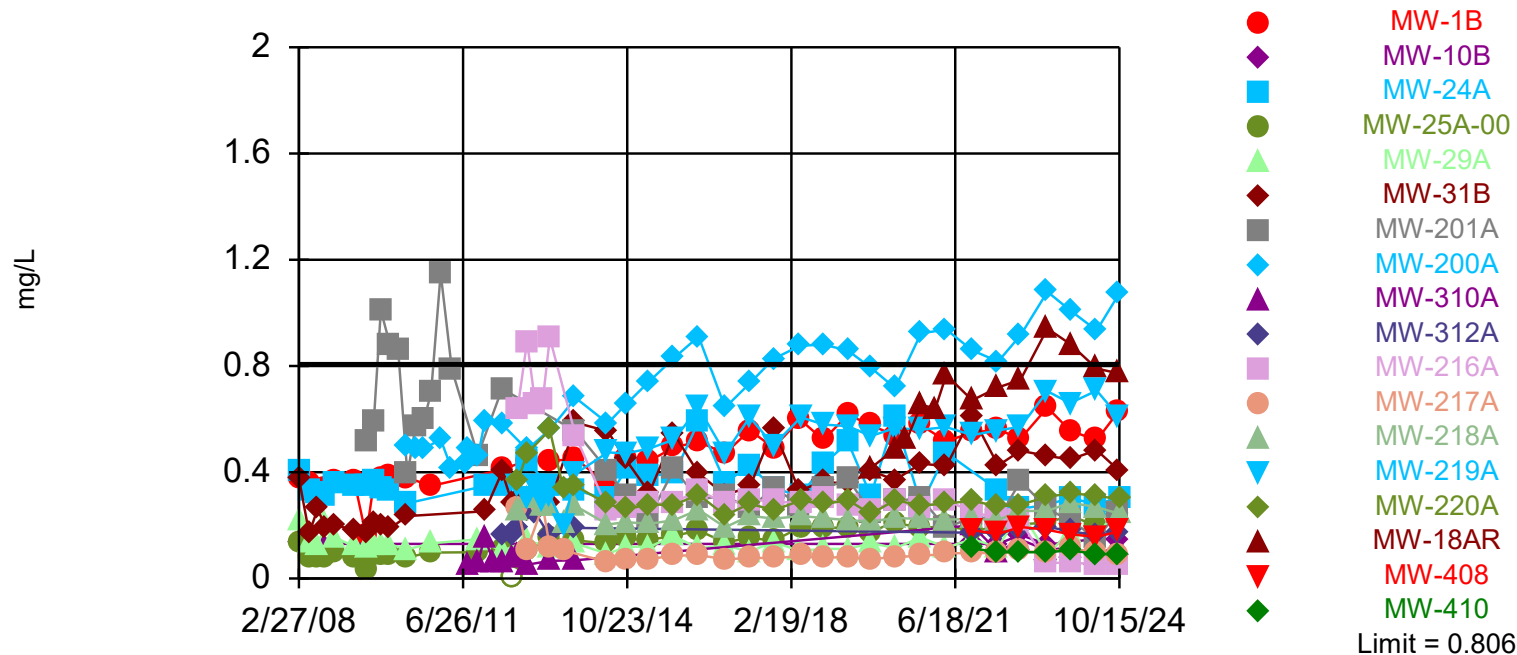
Groundwater Monitoring Wells –
Prediction Limits

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Exceeds Limit: MW-200A

Prediction Limit

Interwell Non-parametric

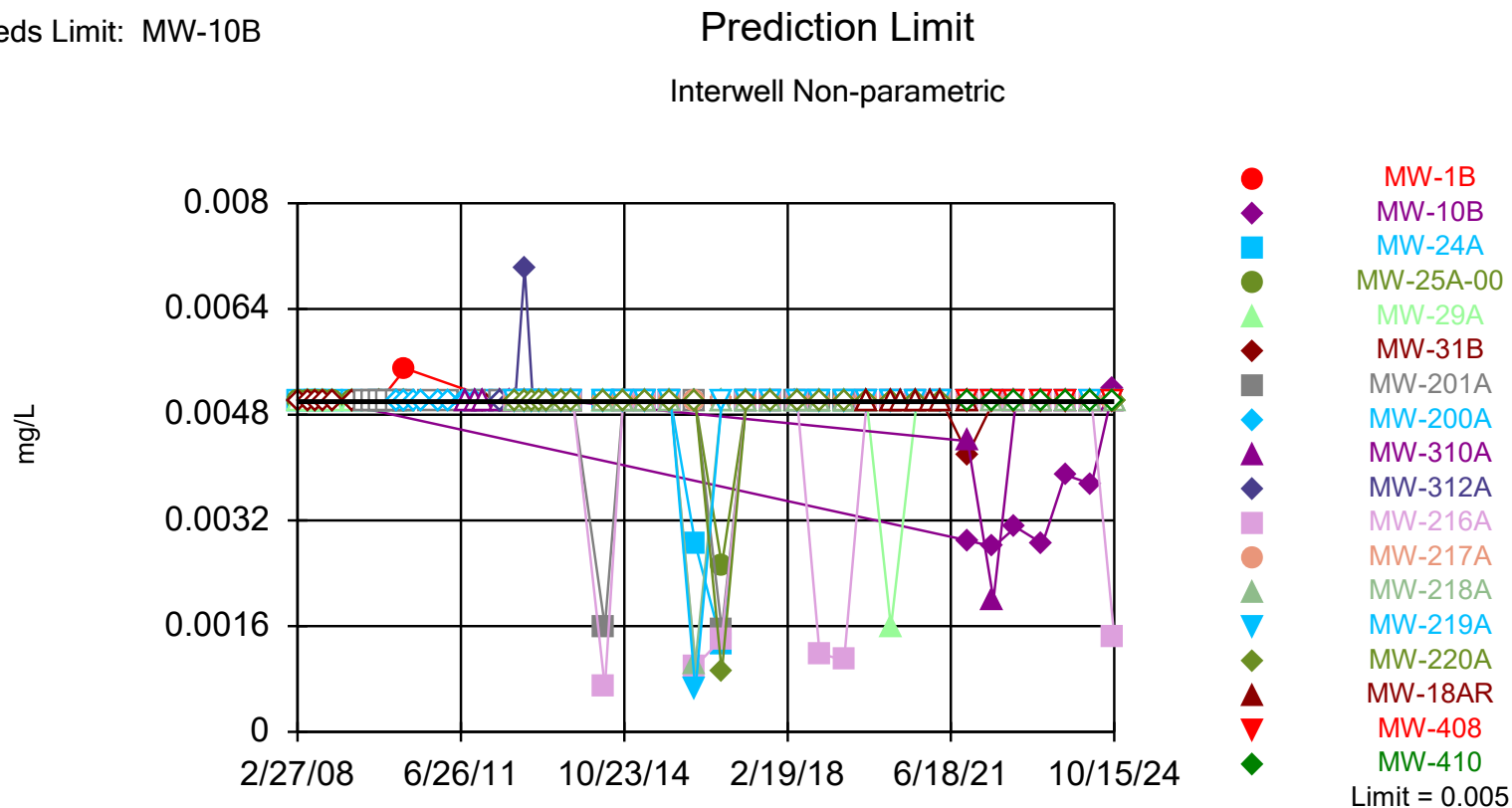


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 89 background values. Annual per-constituent alpha = 0.01948. Individual comparison alpha = 0.0002341 (1 of 2). Comparing 18 points to limit. Assumes 24 future values.

Constituent: Barium Analysis Run 1/23/2025 5:04 PM View: 05B_MW_Inorganics_PL_Fall

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Exceeds Limit: MW-10B



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 83 background values. 90.36% NDs. Annual per-constituent alpha = 0.02227. Individual comparison alpha = 0.000268 (1 of 2). Comparing 18 points to limit. Assumes 24 future values.

Constituent: Selenium Analysis Run 1/23/2025 5:04 PM View: 05B_MW_Inorganics_PL_Fall

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Prediction Limit

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:04 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MW-1B	0.002	10/10/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-10B	0.002	10/9/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-24A	0.002	4/13/2021	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-25A-00	0.002	4/29/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-29A	0.002	4/13/2021	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-31B	0.002	10/11/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-201A	0.002	4/13/2021	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-200A	0.002	10/20/2021	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-310A	0.002	10/10/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-312A	0.002	10/9/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-216A	0.002	10/14/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-217A	0.002	10/14/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-218A	0.002	10/15/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-219A	0.002	10/14/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-220A	0.002	10/15/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-18AR	0.002	10/20/2021	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-408	0.002	10/10/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Antimony (mg/L)	MW-410	0.002	10/14/2024	0.002ND	No	82	MW-39B,MW-34...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-1B	0.0222	10/10/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-10B	0.0222	10/9/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-24A	0.0222	10/15/2024	0.0104	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-25A-00	0.0222	4/29/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-29A	0.0222	10/10/2024	0.00111J	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-31B	0.0222	10/11/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-201A	0.0222	10/9/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-200A	0.0222	10/10/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-310A	0.0222	10/10/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-312A	0.0222	10/9/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-216A	0.0222	10/14/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-217A	0.0222	10/14/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-218A	0.0222	10/15/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-219A	0.0222	10/14/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-220A	0.0222	10/15/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-18AR	0.0222	10/9/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-408	0.0222	10/10/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	MW-410	0.0222	10/14/2024	0.002ND	No	87	MW-38A,MW-39...	70.11	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Barium (mg/L)	MW-1B	0.806	10/10/2024	0.63	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-10B	0.806	10/9/2024	0.148	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-24A	0.806	10/15/2024	0.306	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-25A-00	0.806	4/29/2024	0.199	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-29A	0.806	10/10/2024	0.284	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-31B	0.806	10/11/2024	0.408	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-201A	0.806	10/9/2024	0.247	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-200A	0.806	10/10/2024	1.07	Yes	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-310A	0.806	10/10/2024	0.124	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-312A	0.806	10/9/2024	0.171	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-216A	0.806	10/14/2024	0.0508	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-217A	0.806	10/14/2024	0.0906	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-218A	0.806	10/15/2024	0.244	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-219A	0.806	10/14/2024	0.607	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2

Prediction Limit

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	MW-220A	0.806	10/15/2024	0.298	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-18AR	0.806	10/9/2024	0.773	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-408	0.806	10/10/2024	0.177	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-410	0.806	10/14/2024	0.0925	No	89	MW-34A,MW-39...	0	n/a	n/a	0.0002341	NP Inter (normality) 1 of 2
Beryllium (mg/L)	MW-1B	0.00107	10/10/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-10B	0.00107	10/9/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-24A	0.00107	4/13/2021	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-25A-00	0.00107	4/29/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-29A	0.00107	4/13/2021	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-31B	0.00107	10/11/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-201A	0.00107	4/13/2021	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-200A	0.00107	10/20/2021	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-310A	0.00107	10/10/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-312A	0.00107	10/9/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-216A	0.00107	10/14/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-217A	0.00107	10/14/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-218A	0.00107	10/15/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-219A	0.00107	10/14/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-220A	0.00107	10/15/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-18AR	0.00107	10/20/2021	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-408	0.00107	10/10/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	MW-410	0.00107	10/14/2024	0.001ND	No	88	MW-38A,MW-39...	96.59	n/a	n/a	0.0002398	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-1B	0.00173	10/10/2024	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-10B	0.00173	10/9/2024	0.000166J	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-24A	0.00173	4/13/2021	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-25A-00	0.00173	4/29/2024	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-29A	0.00173	4/13/2021	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-31B	0.00173	10/11/2024	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-201A	0.00173	4/13/2021	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-200A	0.00173	10/20/2021	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-310A	0.00173	10/10/2024	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-312A	0.00173	10/9/2024	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-216A	0.00173	10/14/2024	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-217A	0.00173	10/14/2024	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-218A	0.00173	10/15/2024	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-219A	0.00173	10/14/2024	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-220A	0.00173	10/15/2024	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-18AR	0.00173	10/20/2021	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-408	0.00173	10/10/2024	0.000359	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-410	0.00173	10/14/2024	0.0002ND	No	83	MW-39B,MW-38...	84.34	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-1B	0.0477	10/10/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-10B	0.0477	10/9/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-24A	0.0477	4/13/2021	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-25A-00	0.0477	4/29/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-29A	0.0477	4/13/2021	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-31B	0.0477	10/11/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-201A	0.0477	4/13/2021	0.0008J	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-200A	0.0477	10/20/2021	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-310A	0.0477	10/10/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-312A	0.0477	10/9/2024	0.00607	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2

Prediction Limit

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:04 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	MW-216A	0.0477	10/14/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-217A	0.0477	10/14/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-218A	0.0477	10/15/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-219A	0.0477	10/14/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-220A	0.0477	10/15/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-18AR	0.0477	10/20/2021	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-408	0.0477	10/10/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Chromium (mg/L)	MW-410	0.0477	10/14/2024	0.005ND	No	79	MW-34A,MW-38...	72.15	n/a	n/a	0.000293	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-1B	0.00939	10/10/2024	0.0005ND	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-10B	0.00939	10/9/2024	0.0005ND	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-24A	0.00939	10/15/2024	0.00854	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-25A-00	0.00939	4/29/2024	0.0005ND	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-29A	0.00939	10/10/2024	0.00642	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-31B	0.00939	10/11/2024	0.000243J	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-201A	0.00939	10/9/2024	0.0005ND	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-200A	0.00939	10/10/2024	0.000263J	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-310A	0.00939	10/10/2024	0.0005ND	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-312A	0.00939	10/9/2024	0.000318J	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-216A	0.00939	10/14/2024	0.0005ND	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-217A	0.00939	10/14/2024	0.0005ND	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-218A	0.00939	10/15/2024	0.0005ND	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-219A	0.00939	10/14/2024	0.0005ND	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-220A	0.00939	10/15/2024	0.0005ND	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-18AR	0.00939	10/9/2024	0.0005ND	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-408	0.00939	10/10/2024	0.00049J	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-410	0.00939	10/14/2024	0.000299J	No	89	MW-34A,MW-38...	57.3	n/a	n/a	0.0002341	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-1B	0.00534	10/10/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-10B	0.00534	10/9/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-24A	0.00534	10/15/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-25A-00	0.00534	4/29/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-29A	0.00534	10/10/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-31B	0.00534	10/11/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-201A	0.00534	10/9/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-200A	0.00534	10/10/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-310A	0.00534	10/10/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-312A	0.00534	10/9/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-216A	0.00534	10/14/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-217A	0.00534	10/14/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-218A	0.00534	10/15/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-219A	0.00534	10/14/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-220A	0.00534	10/15/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-18AR	0.00534	10/9/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-408	0.00534	10/10/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Copper (mg/L)	MW-410	0.00534	10/14/2024	0.005ND	No	81	MW-38A,MW-39...	82.72	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-1B	0.01	3/30/2020	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-24A	0.01	3/30/2020	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-25A-00	0.01	3/30/2020	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-29A	0.01	3/30/2020	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-31B	0.01	3/30/2020	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-201A	0.01	3/30/2020	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2

Prediction Limit

Iowa City Landfill

Client: HDR

Data: Iowa City Sanitary Landfill

Printed 1/23/2025, 5:04 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	ND Adj.	Transform	Alpha	Method
Cyanide (mg/L)	MW-200A	0.01	10/20/2021	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-310A	0.01	3/30/2013	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-312A	0.01	3/30/2013	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-216A	0.01	5/1/2023	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-217A	0.01	5/1/2023	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-218A	0.01	5/1/2023	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-219A	0.01	5/1/2023	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-220A	0.01	5/1/2023	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Cyanide (mg/L)	MW-18AR	0.01	10/20/2021	0.01ND	No	7	MW-34A	100	n/a	n/a	0.008819	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-1B	0.0128	10/10/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-10B	0.0128	10/9/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-24A	0.0128	10/15/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-25A-00	0.0128	4/29/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-29A	0.0128	10/10/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-31B	0.0128	10/11/2024	0.000439J	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-201A	0.0128	10/9/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-200A	0.0128	10/10/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-310A	0.0128	10/10/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-312A	0.0128	10/9/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-216A	0.0128	10/14/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-217A	0.0128	10/14/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-218A	0.0128	10/15/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-219A	0.0128	10/14/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-220A	0.0128	10/15/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-18AR	0.0128	10/9/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-408	0.0128	10/10/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-410	0.0128	10/14/2024	0.0005ND	No	87	MW-34A,MW-38...	83.91	n/a	n/a	0.0002454	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-1B	0.105	10/10/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-10B	0.105	10/9/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-24A	0.105	10/15/2024	0.00768	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-25A-00	0.105	4/29/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-29A	0.105	10/10/2024	0.0211	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-31B	0.105	10/11/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-201A	0.105	10/9/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-200A	0.105	10/10/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-310A	0.105	10/10/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-312A	0.105	10/9/2024	0.00227J	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-216A	0.105	10/14/2024	0.00417J	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-217A	0.105	10/14/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-218A	0.105	10/15/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-219A	0.105	10/14/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-220A	0.105	10/15/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-18AR	0.105	10/9/2024	0.005ND	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-408	0.105	10/10/2024	0.00322J	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-410	0.105	10/14/2024	0.00282J	No	86	MW-38A,MW-34...	66.28	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-1B	0.005	10/10/2024	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-10B	0.005	10/9/2024	0.00519	Yes	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-24A	0.005	4/13/2021	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-25A-00	0.005	4/29/2024	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-29A	0.005	4/13/2021	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2

Prediction Limit

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:04 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	MW-31B	0.005	10/11/2024	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-201A	0.005	4/13/2021	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-200A	0.005	10/20/2021	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-310A	0.005	10/10/2024	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-312A	0.005	10/9/2024	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-216A	0.005	10/14/2024	0.00144J	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-217A	0.005	10/14/2024	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-218A	0.005	10/15/2024	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-219A	0.005	10/14/2024	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-220A	0.005	10/15/2024	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-18AR	0.005	10/20/2021	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-408	0.005	10/10/2024	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Selenium (mg/L)	MW-410	0.005	10/14/2024	0.005ND	No	83	MW-38A,MW-39...	90.36	n/a	n/a	0.000268	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-1B	0.001	10/10/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-10B	0.001	10/9/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-24A	0.001	4/13/2021	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-25A-00	0.001	4/29/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-29A	0.001	4/13/2021	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-31B	0.001	10/11/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-201A	0.001	4/13/2021	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-200A	0.001	10/20/2021	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-310A	0.001	10/10/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-312A	0.001	10/9/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-216A	0.001	10/14/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-217A	0.001	10/14/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-218A	0.001	10/15/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-219A	0.001	10/14/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-220A	0.001	10/15/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-18AR	0.001	10/20/2021	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-408	0.001	10/10/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Silver (mg/L)	MW-410	0.001	10/14/2024	0.001ND	No	82	MW-34A,MW-38...	97.56	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-1B	0.1	3/30/2020	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-24A	0.1	3/30/2020	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-25A-00	0.1	3/30/2020	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-29A	0.1	3/30/2020	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-31B	0.1	3/30/2020	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-201A	0.1	3/30/2020	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-200A	0.1	10/20/2021	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-310A	0.1	3/30/2013	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-312A	0.1	3/30/2013	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-216A	0.1	4/29/2024	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-217A	0.1	5/1/2023	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-218A	0.1	4/29/2024	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-219A	0.1	4/29/2024	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-220A	0.1	5/1/2023	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Sulfide (mg/L)	MW-18AR	0.1	10/9/2024	0.1ND	No	24	MW-34A,MW-38...	100	n/a	n/a	0.00218	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-1B	0.001	10/10/2024	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-10B	0.001	10/9/2024	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-24A	0.001	4/13/2021	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-25A-00	0.001	4/29/2024	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2

Prediction Limit

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:04 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	%NDs	ND Adj.	Transform	Alpha	Method
Thallium (mg/L)	MW-29A	0.001	4/13/2021	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-31B	0.001	10/11/2024	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-201A	0.001	4/13/2021	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-200A	0.001	10/20/2021	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-310A	0.001	10/10/2024	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-312A	0.001	10/9/2024	0.000628J	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-216A	0.001	10/14/2024	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-217A	0.001	10/14/2024	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-218A	0.001	10/15/2024	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-219A	0.001	10/14/2024	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-220A	0.001	10/15/2024	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-18AR	0.001	10/20/2021	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-408	0.001	10/10/2024	0.000668J	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Thallium (mg/L)	MW-410	0.001	10/14/2024	0.001ND	No	82	MW-38A,MW-34...	98.78	n/a	n/a	0.0002737	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-1B	0.136	3/30/2020	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-24A	0.136	3/30/2020	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-25A-00	0.136	3/30/2020	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-29A	0.136	3/30/2020	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-31B	0.136	3/30/2020	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-201A	0.136	3/30/2020	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-200A	0.136	10/20/2021	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-310A	0.136	3/30/2013	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-312A	0.136	3/30/2013	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-216A	0.136	5/1/2023	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-217A	0.136	5/1/2023	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-218A	0.136	5/1/2023	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-219A	0.136	5/1/2023	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-220A	0.136	5/1/2023	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Tin (mg/L)	MW-18AR	0.136	10/20/2021	0.005ND	No	14	MW-34A,MW-38...	92.86	n/a	n/a	0.004422	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-1B	0.00554	10/10/2024	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-10B	0.00554	10/9/2024	0.00169J	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-24A	0.00554	4/13/2021	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-25A-00	0.00554	4/29/2024	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-29A	0.00554	4/13/2021	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-31B	0.00554	10/11/2024	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-201A	0.00554	4/13/2021	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-200A	0.00554	10/20/2021	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-310A	0.00554	10/10/2024	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-312A	0.00554	10/9/2024	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-216A	0.00554	10/14/2024	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-217A	0.00554	10/14/2024	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-218A	0.00554	10/15/2024	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-219A	0.00554	10/14/2024	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-220A	0.00554	10/15/2024	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-18AR	0.00554	10/20/2021	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-408	0.00554	10/10/2024	0.00449J	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	MW-410	0.00554	10/14/2024	0.005ND	No	81	MW-38A,MW-34...	61.73	n/a	n/a	0.0002794	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-1B	0.0684	10/10/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-10B	0.0684	10/9/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-24A	0.0684	4/13/2021	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2

Prediction Limit

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/23/2025, 5:04 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Zinc (mg/L)	MW-25A-00	0.0684	4/29/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-29A	0.0684	4/13/2021	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-31B	0.0684	10/11/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-201A	0.0684	4/13/2021	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-200A	0.0684	10/20/2021	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-310A	0.0684	10/10/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-312A	0.0684	10/9/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-216A	0.0684	10/14/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-217A	0.0684	10/14/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-218A	0.0684	10/15/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-219A	0.0684	10/14/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-220A	0.0684	10/15/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-18AR	0.0684	10/20/2021	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-408	0.0684	10/10/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2
Zinc (mg/L)	MW-410	0.0684	10/14/2024	0.02ND	No	86	MW-34A,MW-38...	88.37	n/a	n/a	0.0002511	NP Inter (NDs) 1 of 2

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Groundwater Monitoring Wells –
DQR

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VOC Screening

Analysis Run 1/21/2025 10:07 PM View: 06A_MW_Organics_PL
Iowa City Landfill Data: Iowa City Sanitary Landfill

UG 'Double Quantification Rule' results for 42 constituents in 38 wells on 8 dates:

cis-1,2-Dichloroethene, MW-18AR, 4/29/2024: 1.48 ug/L, 10/9/2024: 1.36 ug/L

Dichlorodifluoromethane, MW-18AR, 4/29/2024: 7.21 ug/L, 10/9/2024: 5.28 ug/L

Tetrachloroethene, MW-18AR, 4/29/2024: 3.67 ug/L, 10/9/2024: 3.95 ug/L

Trichloroethene, MW-18AR, 4/29/2024: 1.3 ug/L, 10/9/2024: 1.1 ug/L

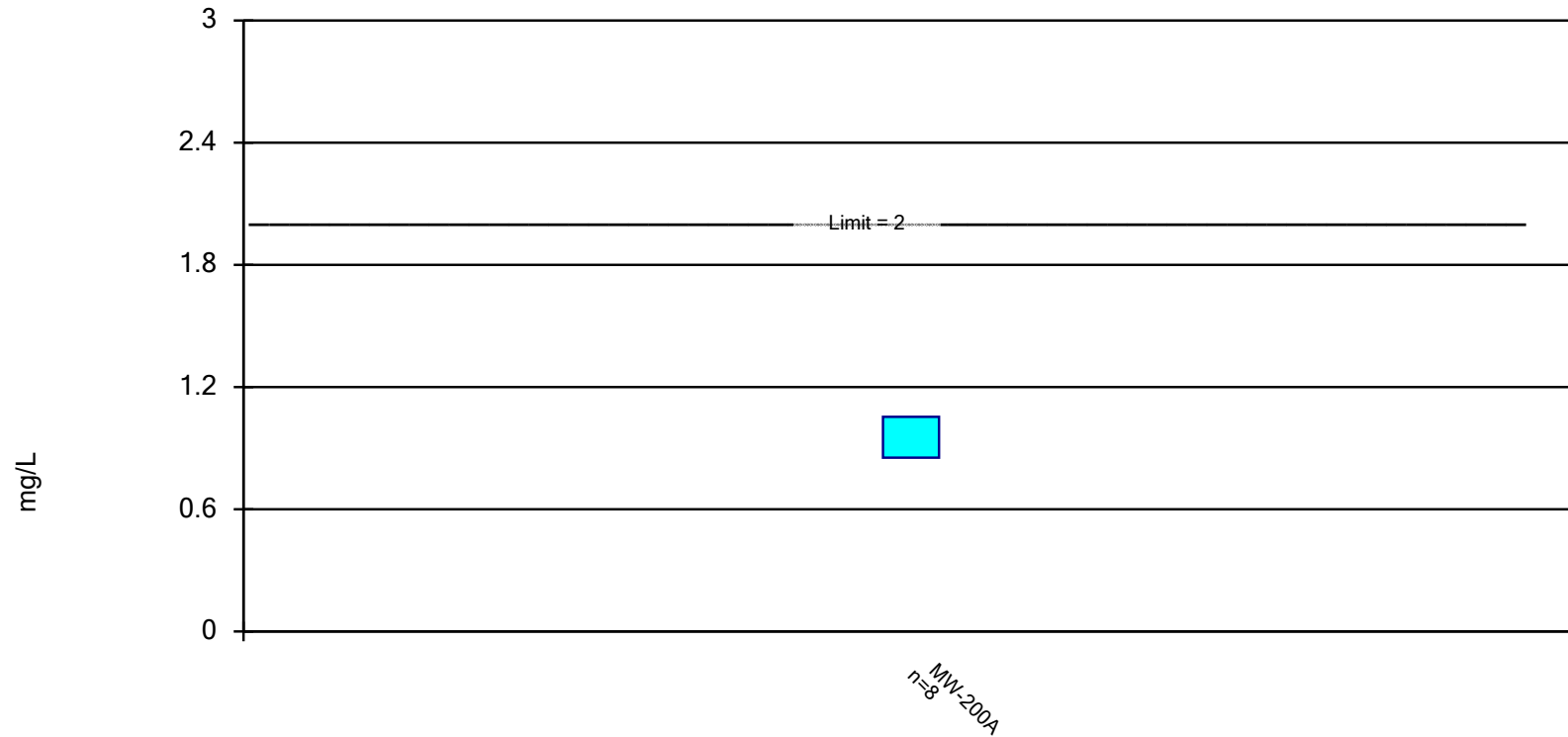
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Groundwater Monitoring Wells –
Confidence Interval Analysis

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Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

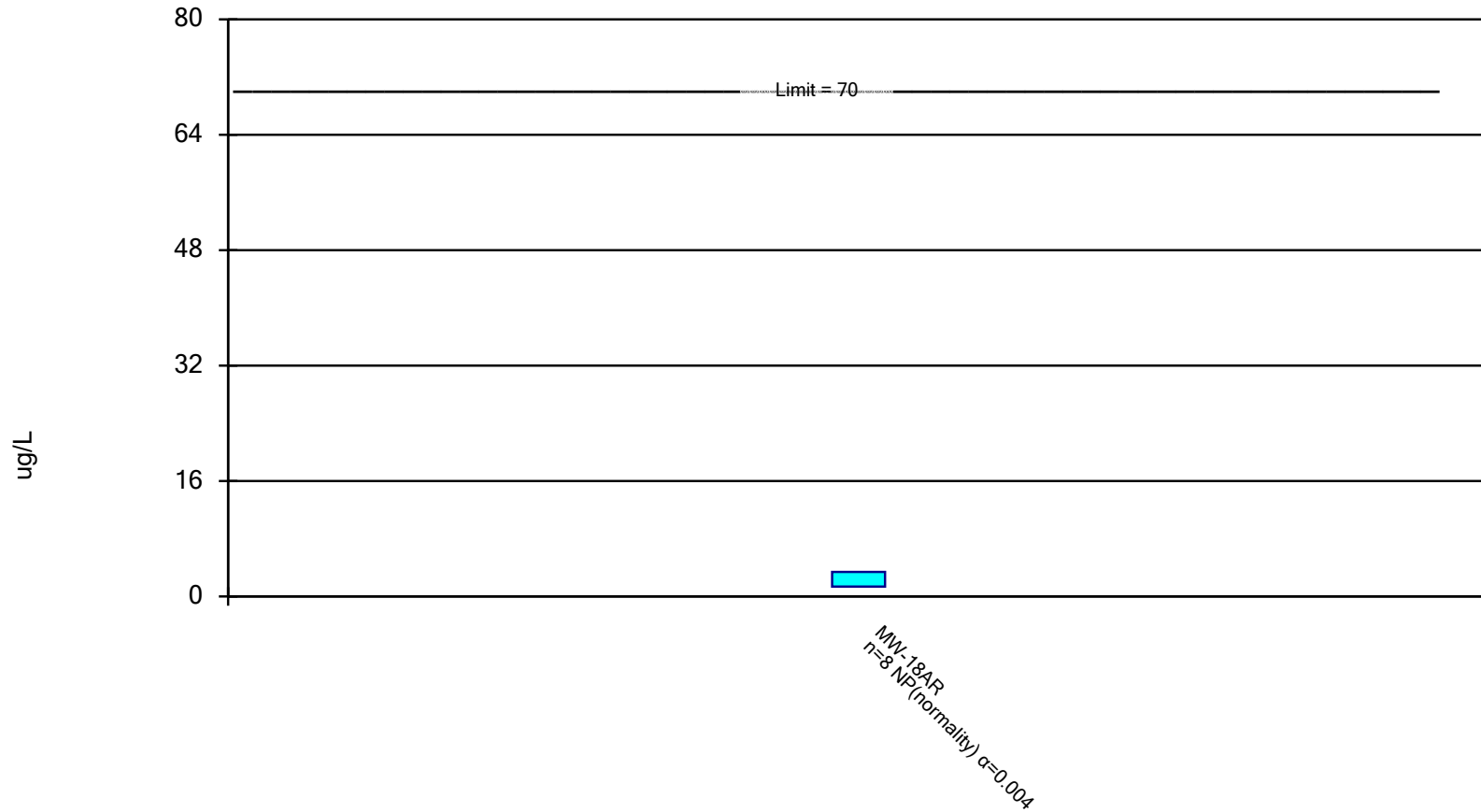


Constituent: Barium Analysis Run 1/23/2025 8:28 PM View: 07_MW_CI

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Non-Parametric Confidence Interval

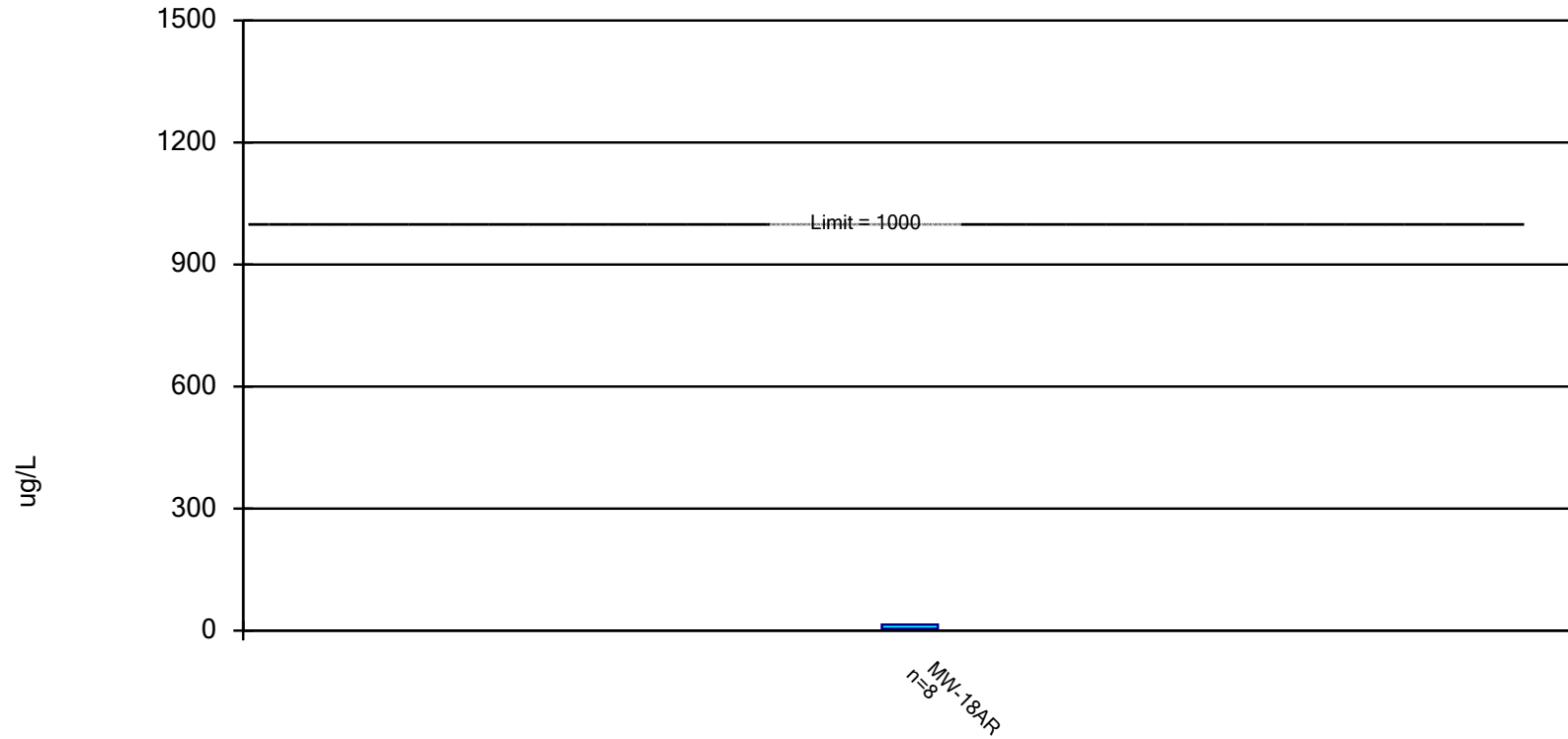
Compliance Limit is not exceeded.



Constituent: cis-1,2-Dichloroethene Analysis Run 1/23/2025 8:28 PM View: 07_MW_CI
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Parametric Confidence Interval

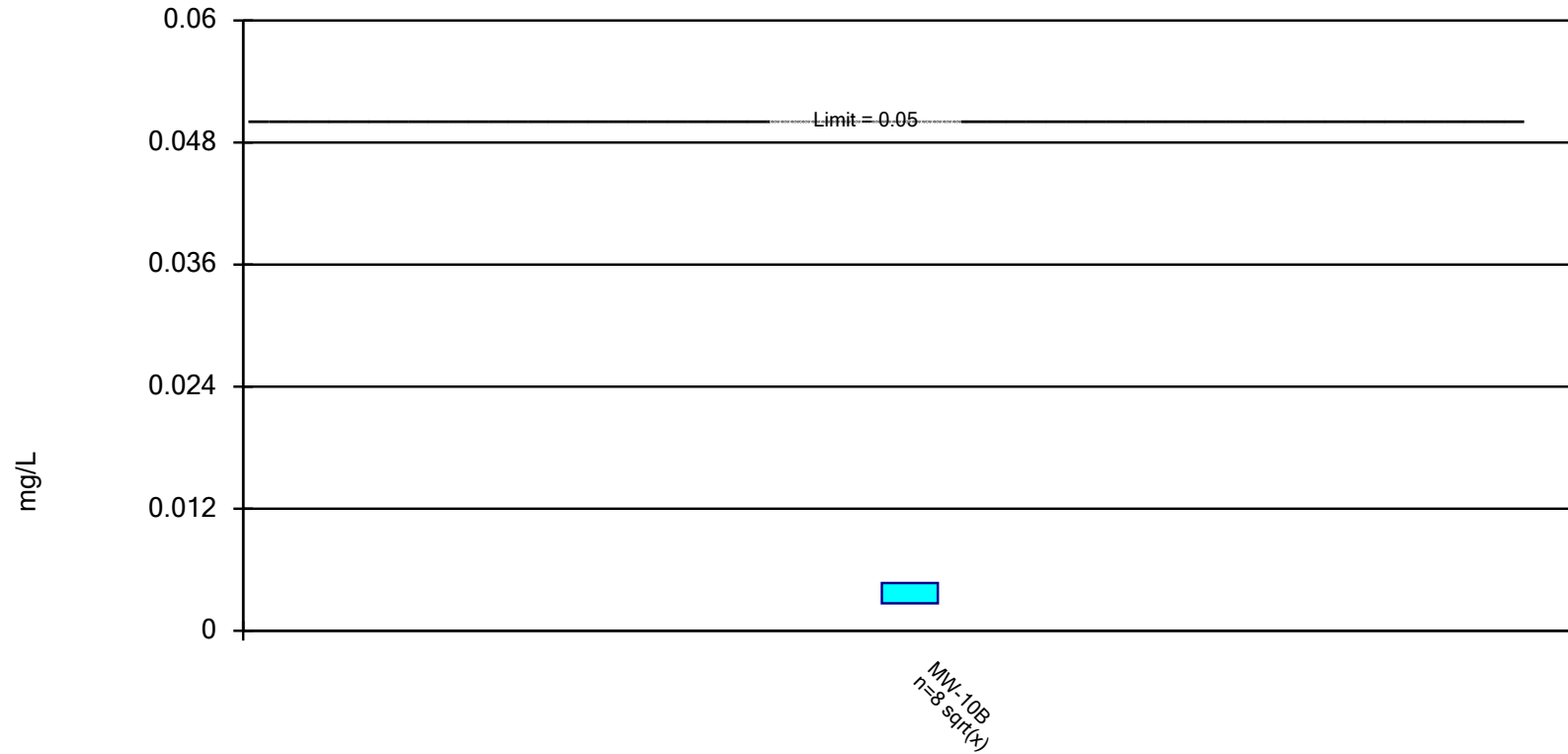
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Dichlorodifluoromethane Analysis Run 1/23/2025 8:28 PM View: 07_MW_CI
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

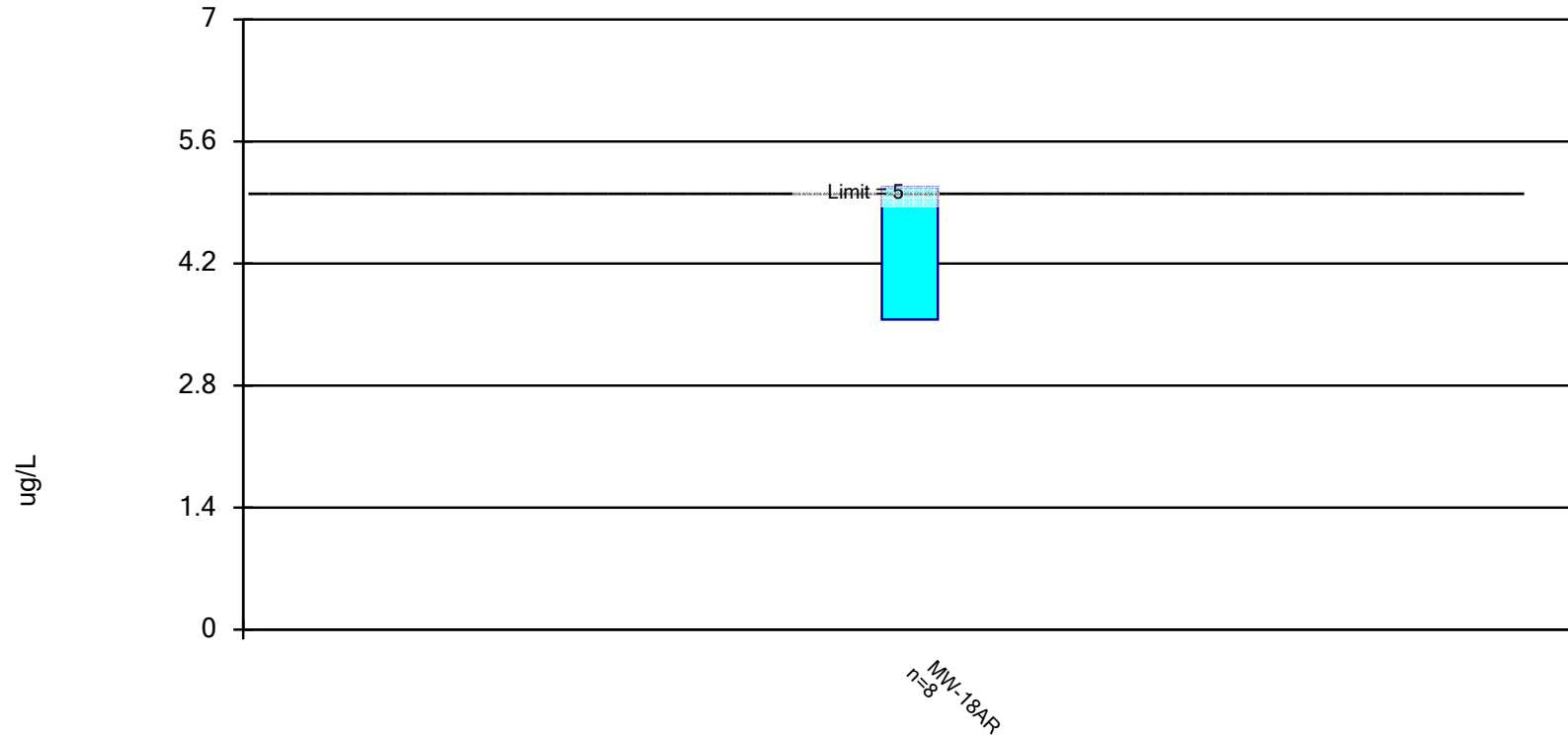


Constituent: Seleniun Analysis Run 1/23/2025 8:28 PM View: 07_MW_CI

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

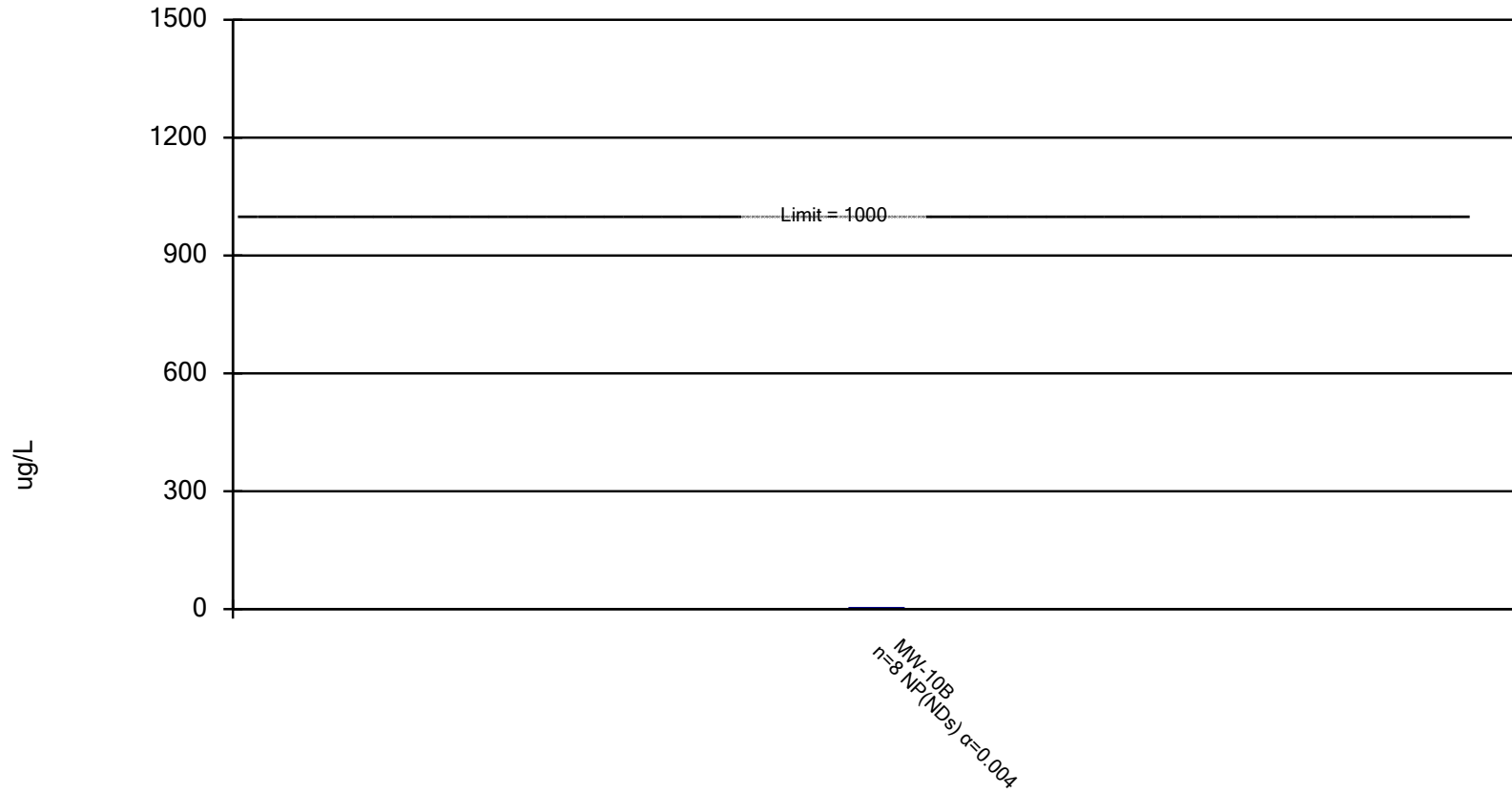


Constituent: Tetrachloroethene Analysis Run 1/23/2025 8:28 PM View: 07_MW_CI

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

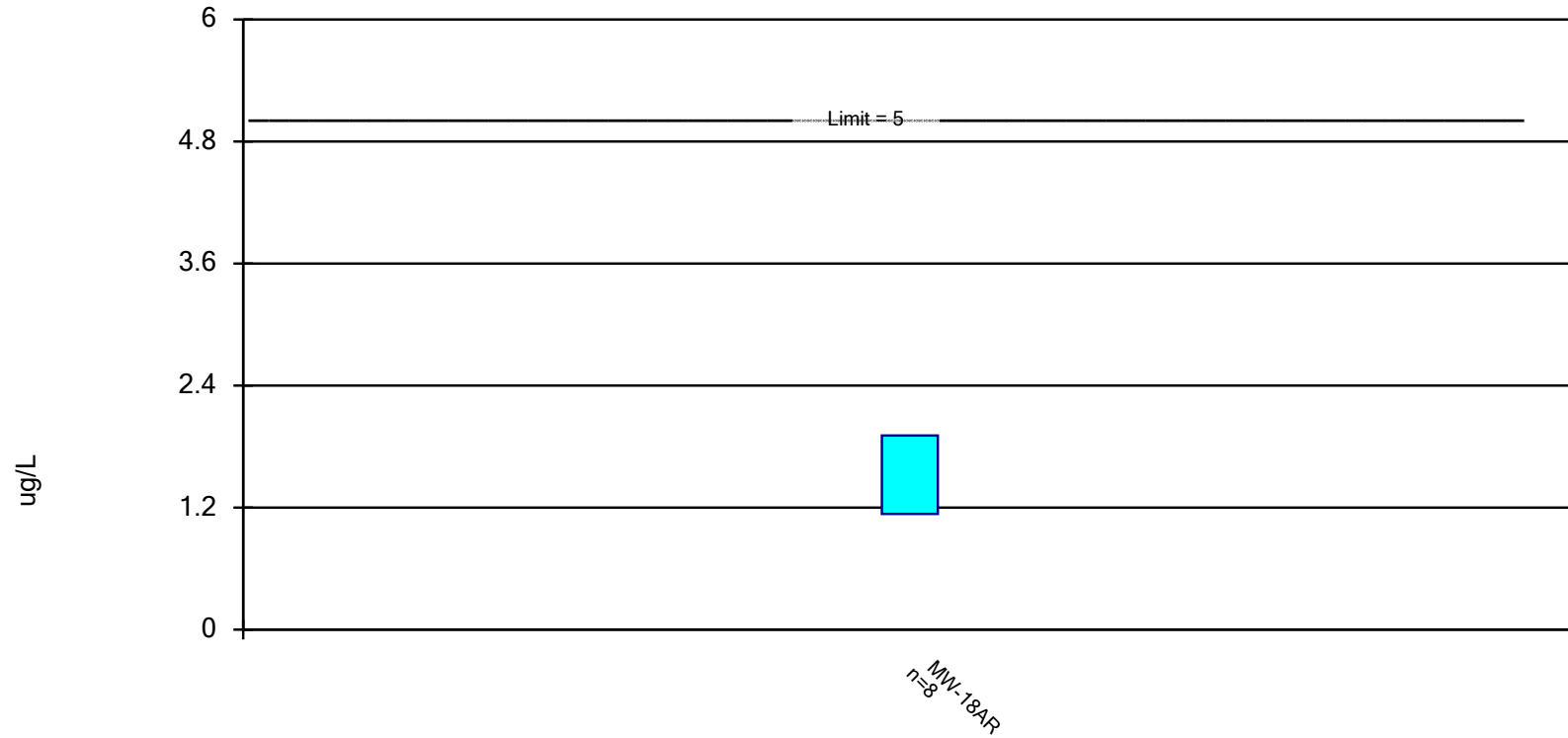


Constituent: Toluene Analysis Run 1/23/2025 8:28 PM View: 07_MW_CI

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Trichloroethene Analysis Run 1/23/2025 8:28 PM View: 07_MW_CI

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Confidence Interval

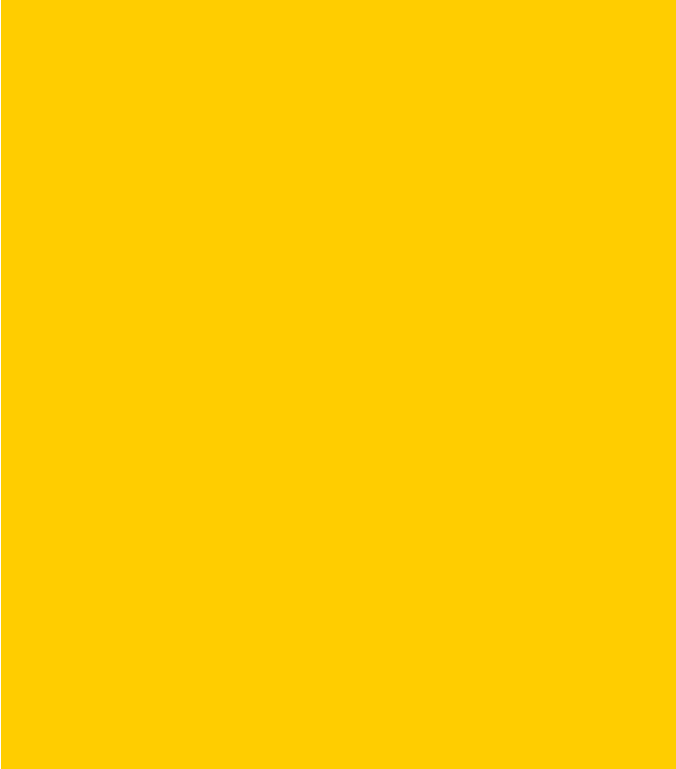
Iowa City Landfill

Client: HDR

Data: Iowa City Sanitary Landfill

Printed 1/23/2025, 8:28 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	MW-200A	1.053	0.853	2	No	8	0.953	0.09438	0	None	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-18AR	3.4	1.36	70	No	8	1.77	0.7013	0	None	No	0.004	NP (normality)
Dichlorodifluoromethane (ug/L)	MW-18AR	14.69	4.841	1000	No	8	9.766	4.647	0	None	No	0.01	Param.
Selenium (mg/L)	MW-10B	0.004686	0.002714	0.05	No	8	0.003685	0.0009621	12.5	None	sqrt(x)	0.01	Param.
Tetrachloroethene (ug/L)	MW-18AR	5.076	3.557	5	No	8	4.316	0.7167	0	None	No	0.01	Param.
Toluene (ug/L)	MW-10B	2.31	1	1000	No	8	1.164	0.4632	87.5	None	No	0.004	NP (NDs)
Trichloroethene (ug/L)	MW-18AR	1.908	1.137	5	No	8	1.523	0.3635	0	None	No	0.01	Param.



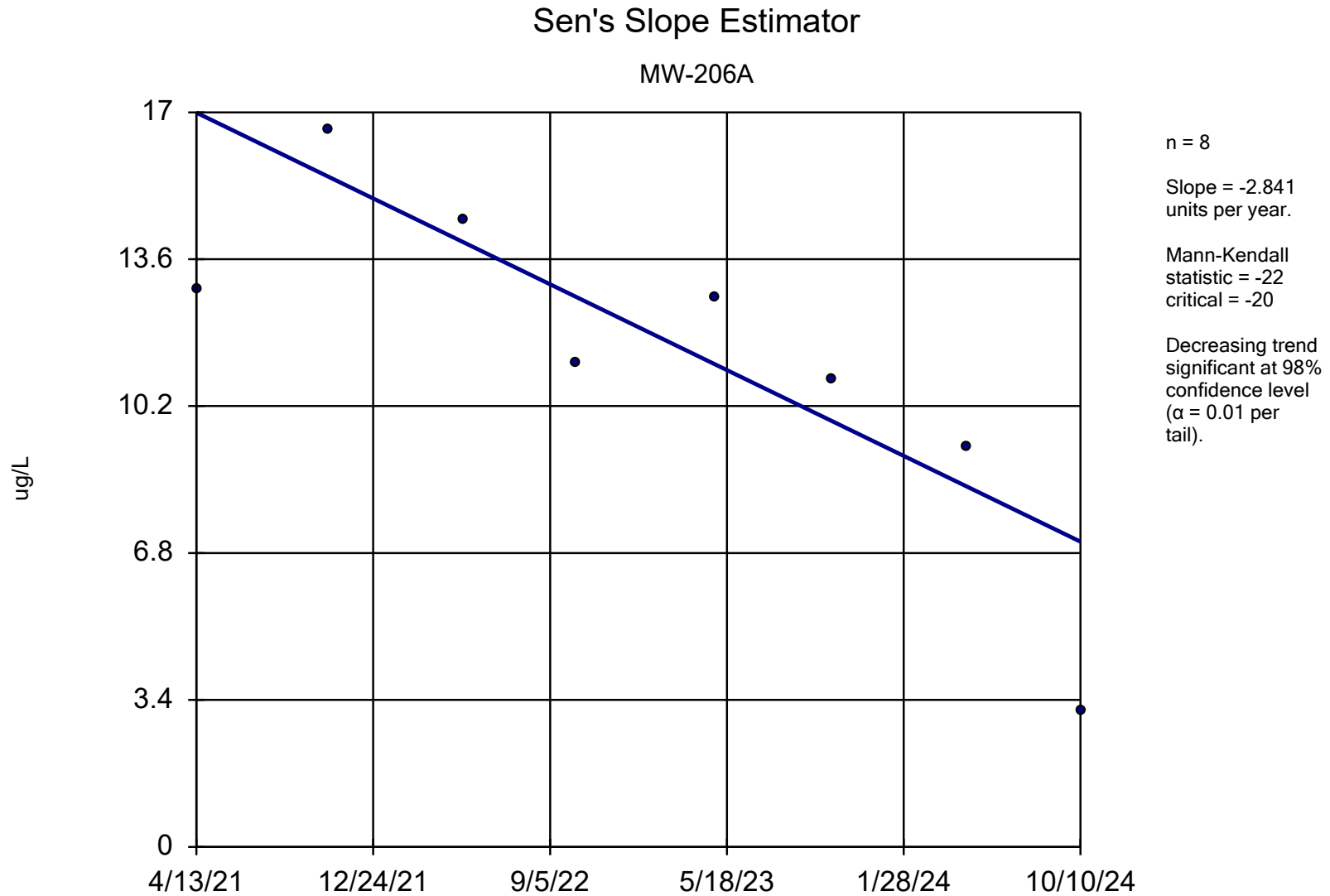
Statistical Analysis:
Source Characterization
Monitoring Wells



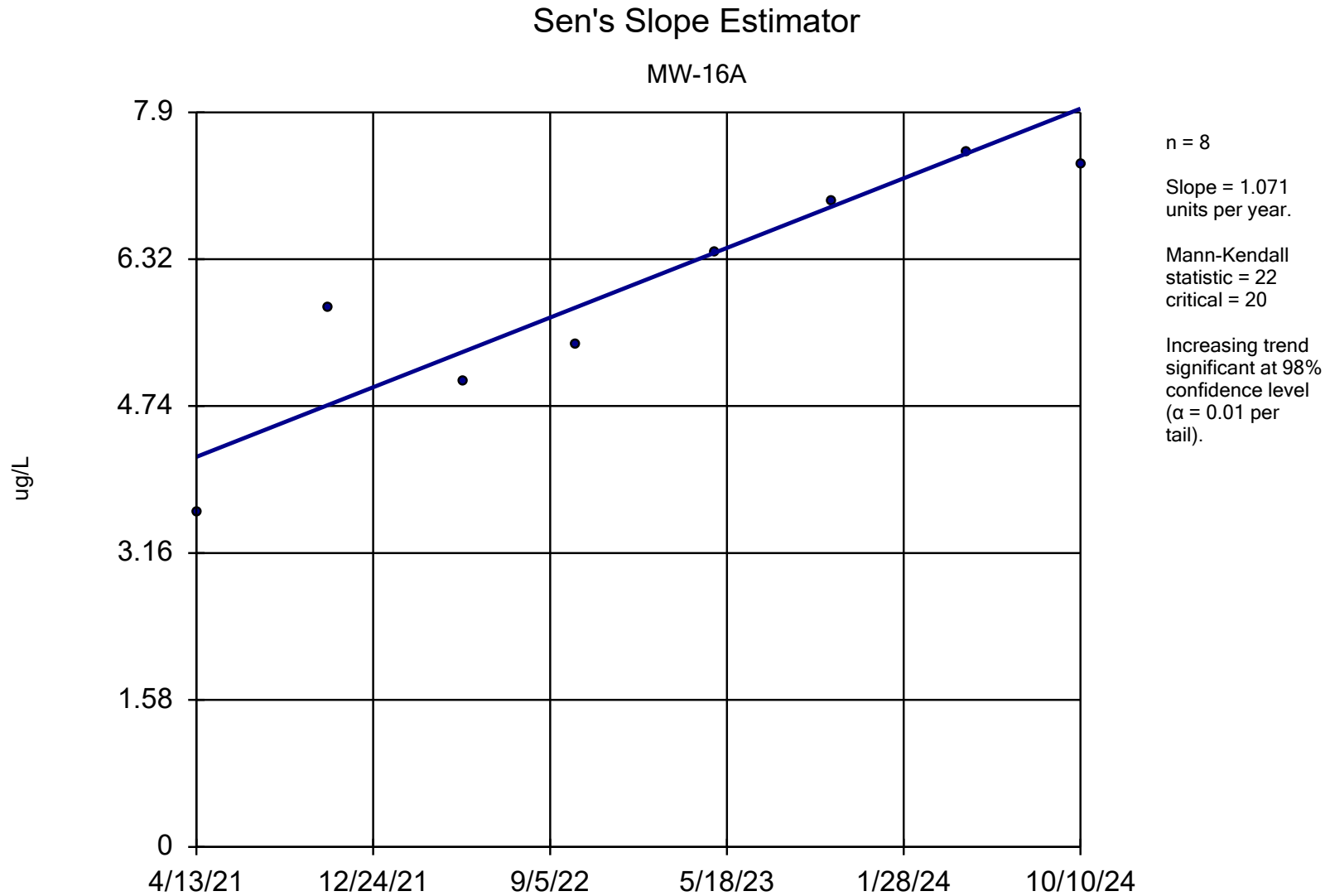
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Source Characterization Monitoring Wells – **Trends**

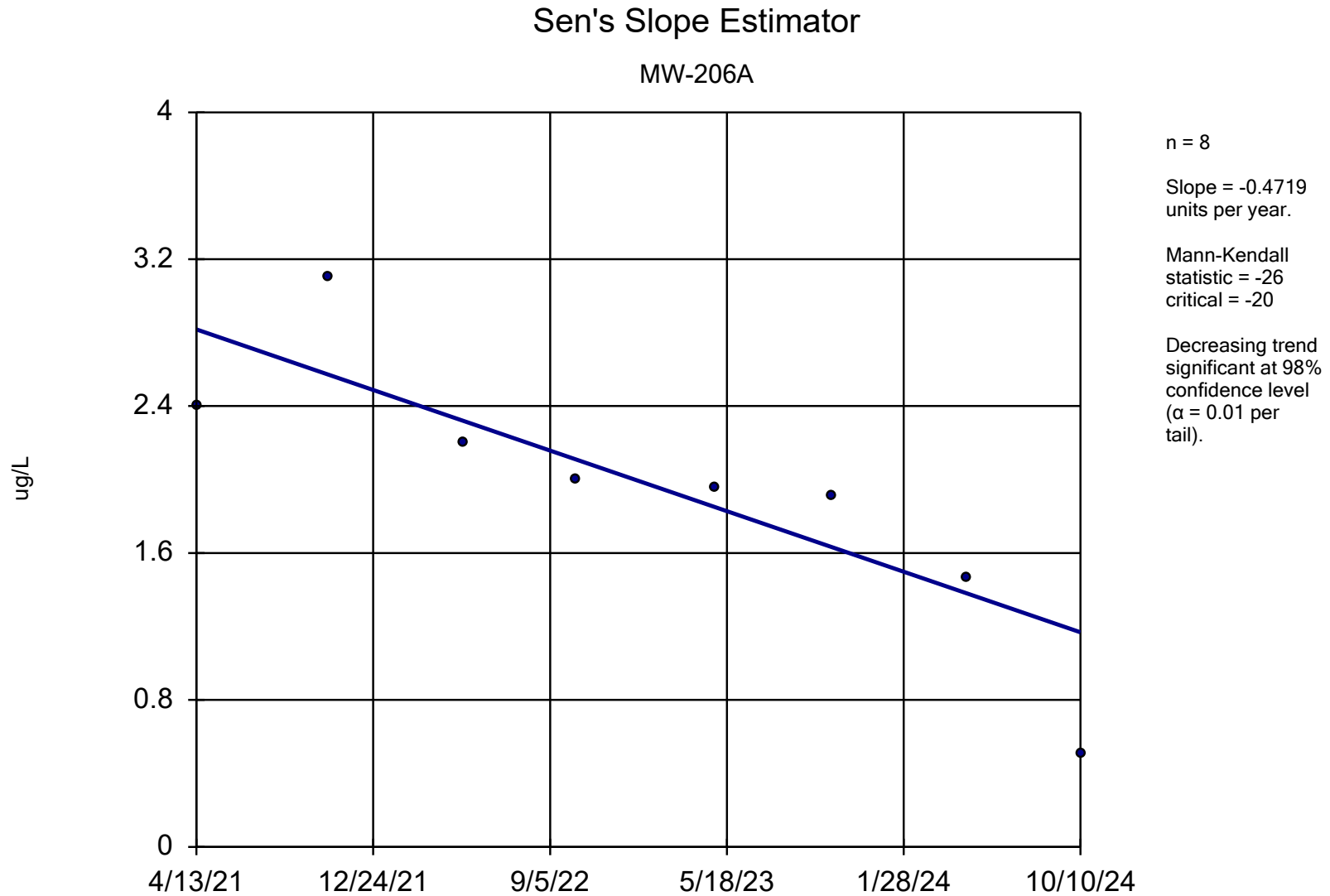
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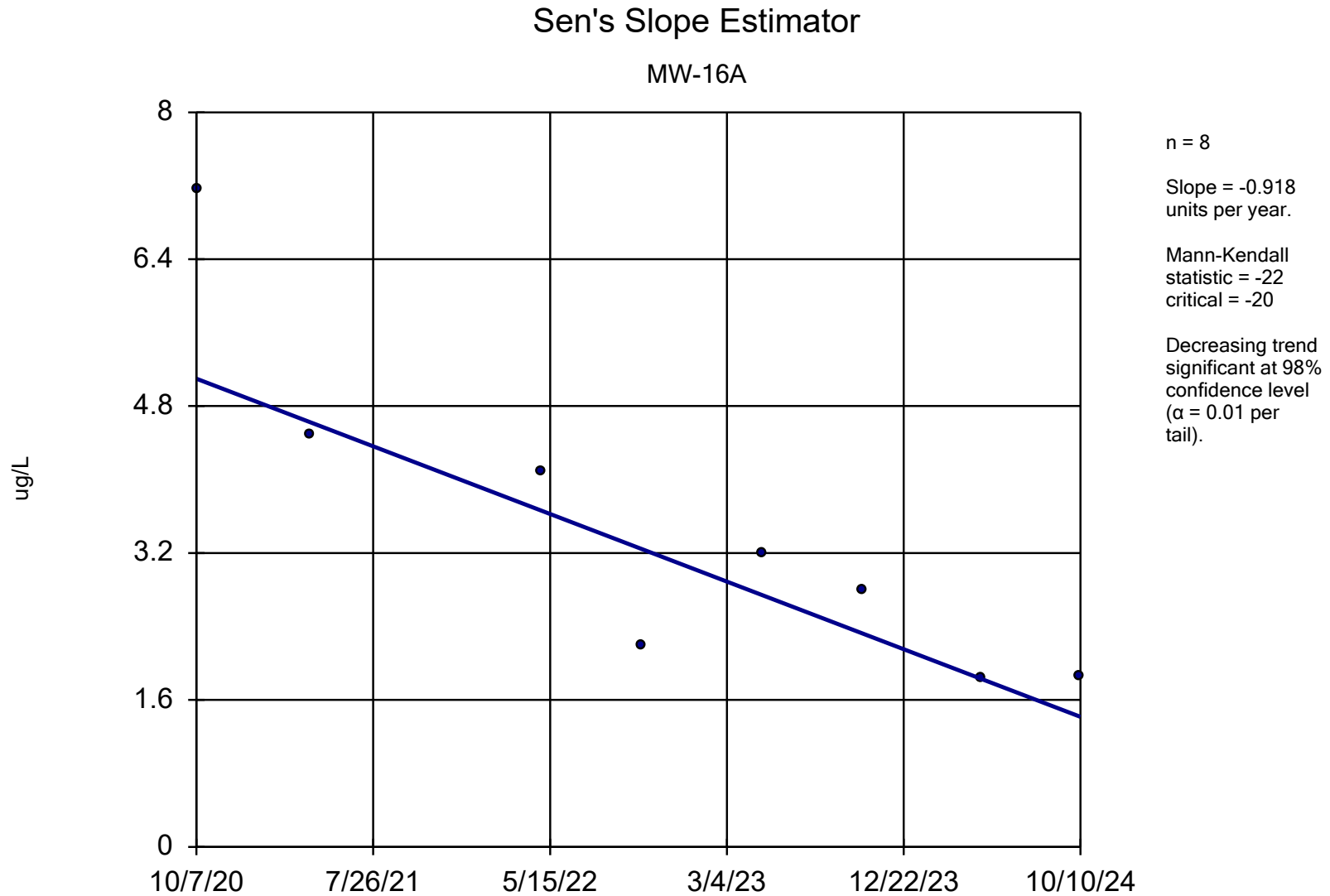
Constituent: 1,1-Dichloroethane Analysis Run 1/27/2025 6:10 PM View: 08_MW_Corrective Action Trend
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill



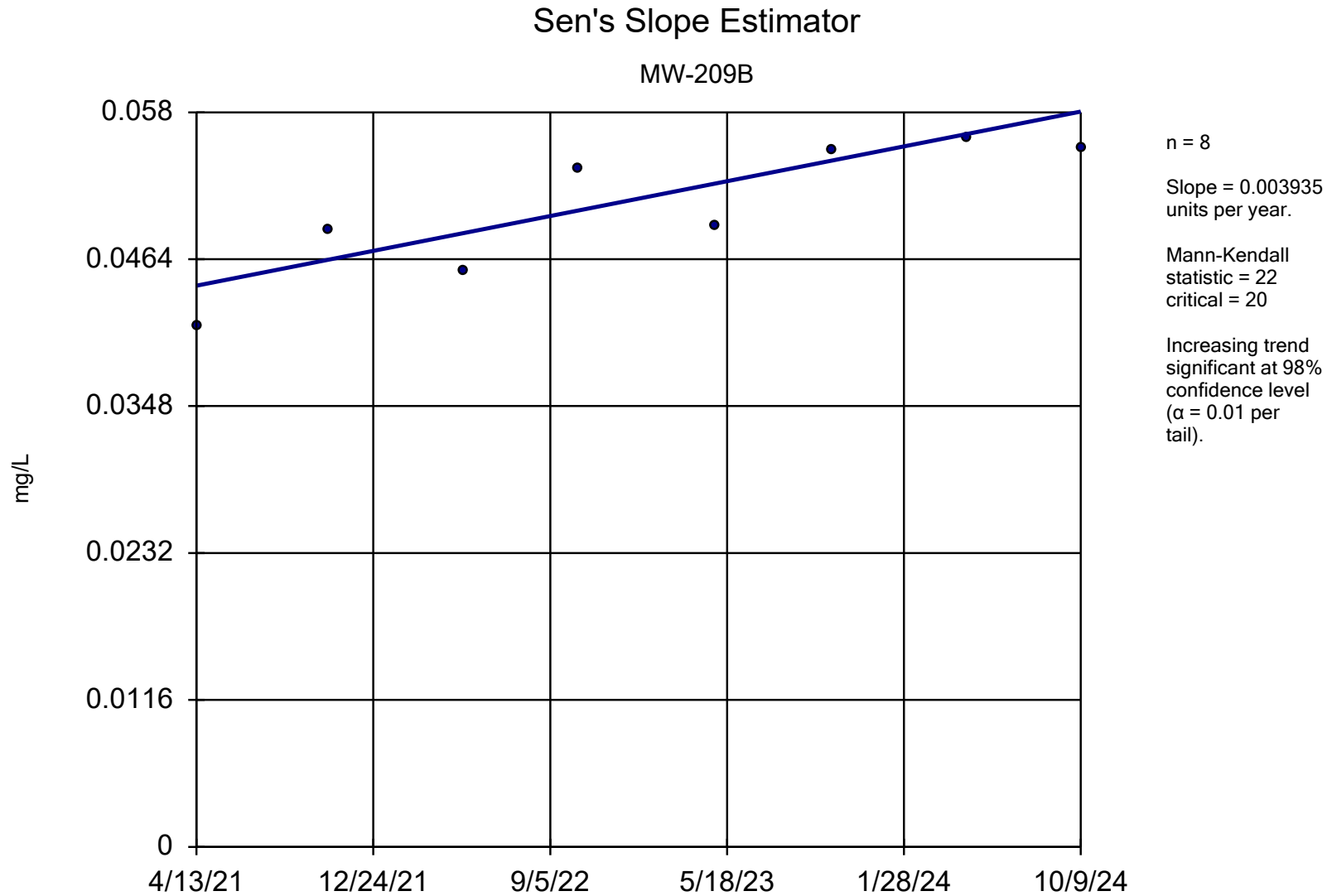
Constituent: cis-1,2-Dichloroethene Analysis Run 1/27/2025 6:10 PM View: 08_MW_Corrective Action Tre
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill



Constituent: cis-1,2-Dichloroethene Analysis Run 1/27/2025 6:10 PM View: 08_MW_Corrective Action Tre
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill



Constituent: Dichlorodifluoromethane Analysis Run 1/27/2025 6:10 PM View: 08_MW_Corrective Action T
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill



Constituent: Nickel Analysis Run 1/27/2025 6:10 PM View: 08_MW_Corrective Action Trend Analysis
Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill

Trend Test

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/27/2025, 6:11 PM

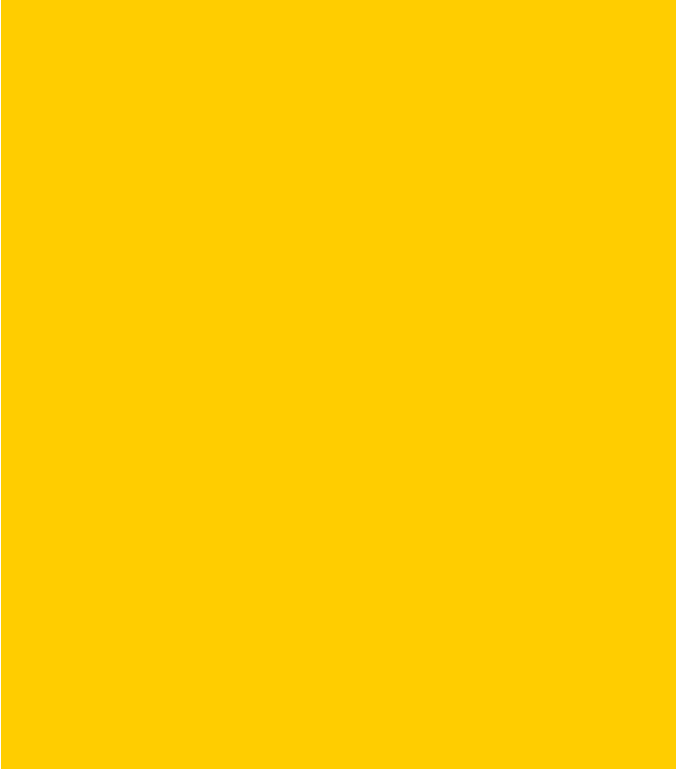
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,1-Dichloroethane (ug/L)	MW-11B	0	-8	-20	No	8	62.5	0.02	NP
1,1-Dichloroethane (ug/L)	MW-16A	0.02184	2	20	No	8	0	0.02	NP
1,1-Dichloroethane (ug/L)	MW-206A	-2.841	-22	-20	Yes	8	0	0.02	NP
1,2-Dichloroethane (ug/L)	MW-16A	0.0423	7	20	No	8	25	0.02	NP
1,2-Dichloropropane (ug/L)	MW-16A	-0.04703	-5	-20	No	8	0	0.02	NP
2,4,5-TP [Silvex] (ug/L)	MW-209B	0.008918	2	20	No	8	12.5	0.02	NP
Acetone (ug/L)	MW-209B	-1.682	-12	-20	No	8	62.5	0.02	NP
Acetone (ug/L)	MW-212A	0	0	20	No	8	50	0.02	NP
Arsenic (mg/L)	MW-1A	-0.01768	-14	-20	No	8	0	0.02	NP
Arsenic (mg/L)	MW-2A-97	-0.004209	-12	-20	No	8	0	0.02	NP
Arsenic (mg/L)	MW-6B	-0.004723	-10	-20	No	8	0	0.02	NP
Arsenic (mg/L)	MW-11B	0.003912	13	20	No	8	0	0.02	NP
Arsenic (mg/L)	MW-209B	0.0002954	2	20	No	8	0	0.02	NP
Arsenic (mg/L)	MW-212A	-0.000253	-2	-20	No	8	0	0.02	NP
Arsenic (mg/L)	MW-207A	0.0012	4	20	No	8	0	0.02	NP
Arsenic (mg/L)	MW-211B	0.005153	16	20	No	8	0	0.02	NP
Barium (mg/L)	MW-1A	-0.07095	-8	-20	No	8	0	0.02	NP
Barium (mg/L)	MW-2A-97	-0.02916	-8	-20	No	8	0	0.02	NP
Barium (mg/L)	MW-6B	-0.01991	-6	-20	No	8	0	0.02	NP
Barium (mg/L)	MW-11B	-0.003725	0	20	No	8	0	0.02	NP
Barium (mg/L)	MW-16A	0.007346	4	20	No	8	0	0.02	NP
Barium (mg/L)	MW-209B	0.02283	12	20	No	8	0	0.02	NP
Barium (mg/L)	MW-212A	0.0158	2	20	No	8	0	0.02	NP
Barium (mg/L)	MW-206A	-0.02134	-20	-20	No	8	0	0.02	NP
Barium (mg/L)	MW-207A	-0.0213	-18	-20	No	8	0	0.02	NP
Barium (mg/L)	MW-211B	-0.01389	-6	-20	No	8	0	0.02	NP
Benzene (ug/L)	MW-16A	0.02371	9	20	No	8	12.5	0.02	NP
Benzene (ug/L)	MW-209B	-0.8281	-20	-20	No	8	0	0.02	NP
Cadmium (mg/L)	MW-2A-97	-0.0002128	-19	-20	No	8	75	0.02	NP
Chlorobenzene (ug/L)	MW-209B	-0.003775	-3	-20	No	8	0	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-16A	1.071	22	20	Yes	8	0	0.02	NP
cis-1,2-Dichloroethene (ug/L)	MW-206A	-0.4719	-26	-20	Yes	8	0	0.02	NP
Cobalt (mg/L)	MW-1A	-0.0004493	-10	-20	No	8	0	0.02	NP
Cobalt (mg/L)	MW-2A-97	-0.000841	-9	-20	No	8	0	0.02	NP
Cobalt (mg/L)	MW-6B	-0.0002349	0	20	No	8	0	0.02	NP
Cobalt (mg/L)	MW-11B	-0.0003303	-14	-20	No	8	0	0.02	NP
Cobalt (mg/L)	MW-16A	-0.00007259	-3	-20	No	8	0	0.02	NP
Cobalt (mg/L)	MW-209B	0.00003725	4	20	No	8	0	0.02	NP
Cobalt (mg/L)	MW-212A	-0.0001114	-6	-20	No	8	0	0.02	NP
Cobalt (mg/L)	MW-207A	-0.00004957	-9	-20	No	8	0	0.02	NP
Cobalt (mg/L)	MW-211B	-0.01434	-16	-20	No	8	0	0.02	NP
Copper (mg/L)	MW-212A	0.0004368	4	20	No	8	0	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-16A	-0.918	-22	-20	Yes	8	0	0.02	NP
Dichlorodifluoromethane (ug/L)	MW-206A	-2.266	-18	-20	No	8	12.5	0.02	NP
Lead (mg/L)	MW-6B	-0.00116	-14	-20	No	8	62.5	0.02	NP
Nickel (mg/L)	MW-1A	0.0001245	11	20	No	8	0	0.02	NP
Nickel (mg/L)	MW-2A-97	-0.0004325	-7	-20	No	8	0	0.02	NP
Nickel (mg/L)	MW-6B	0.0007928	19	20	No	8	0	0.02	NP
Nickel (mg/L)	MW-11B	-0.0003057	-16	-20	No	8	0	0.02	NP
Nickel (mg/L)	MW-16A	-0.00002709	0	20	No	8	0	0.02	NP

Trend Test

Iowa City Landfill Client: HDR Data: Iowa City Sanitary Landfill Printed 1/27/2025, 6:11 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
Nickel (mg/L)	MW-209B	0.003935	22	20	Yes	8	0	0.02	NP
Nickel (mg/L)	MW-211B	-0.007698	-12	-20	No	8	0	0.02	NP
Selenium (mg/L)	MW-206A	-0.0001518	-2	-20	No	8	0	0.02	NP
Sulfide (mg/L)	MW-209B	0.1926	10	20	No	8	25	0.02	NP
Tetrachloroethene (ug/L)	MW-16A	-0.2971	-16	-20	No	8	0	0.02	NP
Tetrachloroethene (ug/L)	MW-206A	-0.07224	-8	-20	No	8	0	0.02	NP
Thallium (mg/L)	MW-11B	-0.0004082	-19	-20	No	8	87.5	0.02	NP
Thallium (mg/L)	MW-16A	-0.0003972	-19	-20	No	8	87.5	0.02	NP
Thallium (mg/L)	MW-212A	-0.0002493	-10	-20	No	8	75	0.02	NP
Trichloroethene (ug/L)	MW-16A	-0.4141	-12	-20	No	8	0	0.02	NP
Trichloroethene (ug/L)	MW-206A	-0.339	-19	-20	No	8	0	0.02	NP
Vanadium (mg/L)	MW-209B	-0.005828	-16	-20	No	8	50	0.02	NP
Vanadium (mg/L)	MW-212A	-0.005407	-10	-20	No	8	50	0.02	NP
Vinyl Chloride (ug/L)	MW-16A	0.1438	4	20	No	8	0	0.02	NP
Xylenes, Total (ug/L)	MW-209B	-1.056	-18	-20	No	8	0	0.02	NP

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Appendix C

October 2024 Field Sampling Forms

*Spring 2024 field sampling forms can be found in the 2024 Spring Sampling Notification (IDNR Doc # 110314).



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FORM FOR GROUNDWATER SAMPLING

[illegible]

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: WT-2	Date: 10/11/24
Gradient (circle one): Up / Down	Sampler: NW F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):

Initial Static Water Level (feet):

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons).

Was well pumped/bailed dry?

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

690

9 mph

SSN

Full Sun

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: WT-3	Date: 10/11/24
Gradient (circle one): Up / Down	Sampler: MW F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):

Initial Static Water Level (feet):

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump
☐ Other: ☐ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons):

Was well pumped/bailed dry?

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

66° 9mph SSW
SW

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: <u>WT-4</u>	Date: <u>10/11/24</u>
Gradient (circle one): Up / Down	Sampler: <u>1 1/2 F</u>

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):

Initial Static Water Level (feet):

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Conductivity (μS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	Static Water Level (feet)
10:01	Purging start time						
	Pump shut-off, sample collected.						

Quantity of Water Removed from Well (circle units: liters / gallons):

Was well pumped/bailed dry?

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

66°
9 mph SSN
FULL SUN

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: WT-0F Date: 10/11/24
Gradient (circle one): Up / Down Sampler: W F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain: $dy + f_g U$

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):

Initial Static Water Level (feet):

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump
☐ Other: ☐ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Conductivity (μS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	Static Water Level (feet)
9:54	Purging start time						
	Pump shut-off, sample collected.						

Quantity of Water Removed from Well (circle units: liters / gallons):

Was well pumped/bailed dry?

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

650

8 mph 55W

full
sun

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: MW 1A	Date: 10/14/24
Gradient (circle one): Up / Down	Sampler: MW F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes ~~No~~ If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 29.03

Initial Static Water Level (feet): 121.55

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump

- Dedicated Submersible Pump

☐ Other:

☒ ~~SECRET~~

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]Quantity of Water Removed from Well (circle units: liters / gallons): 2.1

Was well pumped/bailed dry? *NO*

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 233.33

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

41° 10 mph NNW
Mostly Sun

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: MW 1B Date: 10.10.24
Gradient (circle one): Up / Down Sampler: AWF

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 25.69

Initial Static Water Level (feet): 11.48

Initial Groundwater Elevation (ft.amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump
☐ Other: ☐ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 23

Was well pumped/bailed dry? *NO*

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 255.17

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes ☐ No ☒

If yes, explain:

Additional Comments:

72° 6mph SE
Sun

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: <u>MW-2A-97</u>	Date: <u>6/14/24</u>
Gradient (circle one): Up / Down	Sampler: <u>M F</u>

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 22.82

Initial Static Water Level (feet): 23.40

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump
☐ Other: ☒ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

[illegible]

Quantity of Water Removed from Well (circle units, liters / gallons): 1.7

Was well pumped/bailed dry? *NO*

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min) 1.58

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

45°
Hmph NNN
M. S. NNN

FORM FOR GROUNDWATER SAMPLING

Project:		
Monitoring Well/Piezometer ID:	MW 2C-57	Date: 10/14/24
Gradient (circle one): Up / Down	Sampler: MF	

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 67.72

Initial Static Water Level (feet): 26.35

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump
☐ Dedicated Bailer ☐ Other: RED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	Static Water Level (feet)
10:25	Purging start time						26.35
10:08	12.4	50.4	513	6.62			26.35
10:11	12.3	20.9	513	6.56			26.35
10:14	12.2	13.2	513	6.62			26.35
Pump shut-off, sample collected.							

Quantity of Water Removed from Well (circle units: liters / gallons): 2.5

Was well pumped/bailed dry? NO

Total Amount of Time Purged (minutes:seconds) 7

Average Purge Rate (mL/min) 277.27

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: MW-6B	Date: 10-9-24
Gradient (circle one): Up / Down	Sampler: MFE

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain.

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 23.25

Initial Static Water Level (feet): 5.82

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump
☐ Other: ☐ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 1.9

Was well pumped/bailed dry? **NO**

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 211.11

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes (No)

If yes, explain:

Additional Comments:

540

4 mph SW

FULL SUN

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: MW 7C	Date: 10/15/24
Gradient (circle one): Up / Down	Sampler: MW F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 43.08

Initial Static Water Level (feet): 8.84

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump ☐ Other: ☒ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 2.9

Was well pumped/bailed dry? **NO**

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 322.22

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes ☐ No ☒

If yes, explain:

Additional Comments:

37° 10 mph N wind
Full sun
C0000 L D

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: <i>Wp-10B</i>	Date: <i>10/9/24</i>
Gradient (circle one): Up / Down	Sampler: <i>MF</i>

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes NO If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 18.50

Initial Static Water Level (feet): 10.70

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

☐ Dedicated, Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

[illegible]

Quantity of Water Removed from Well (circle units: liters) / gallons: 2,2

Was well pumped/bailed dry? *N2*

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes No

If yes, explain:

Additional Comments:

760

7mph SW
SUN

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID:	Date: 6.10.24
Gradient (circle one): Up / Down MW 11B	Sampler: W F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 22.23

Initial Static Water Level (feet): 10.02

Initial Groundwater Elevation (ft-amsl): 11.5

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 1.7

Was well pumped/bailed dry?

Total Amount of Time Purged (minutes:seconds) 0

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

57° 7 mph ESE
W
Full
Sun

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: <u>mw-11D</u>	Date: <u>10/9/24</u>
Gradient (circle one): Up / Down	Sampler: <u>MW F</u>

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes ☒ No ☐ If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 3510

Initial Static Water Level (feet): 9.80

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

- Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 2.0

Was well pumped/bailed dry? **No**

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

76° 7 mph SW
SWN

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: MW 15A	Date: 10/9/24
Gradient (circle one): Up / Down	Sampler: <i>AW</i>

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 21.78

Initial Static Water Level (feet): 6.51

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 2.3

Was well pumped/bailed dry? ☒

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes ☐ No ☒

If yes, explain:

Additional Comments:

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: MW 16A Date: 8-10-24
Gradient (circle one): Up / Down Sampler: MJ

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 2405

Initial Static Water Level (feet): 15.45

Initial Groundwater Elevation_i (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 1.2

Was well pumped/bailed dry? 1/0

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min) 185.58

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

590

7 mph

SE

Full
Sun

$\frac{1}{2} \log 2$

Project: _____
Monitoring Well/Piezometer ID: MW 18-AR _____ Date: 10-9-24
Gradient (circle one): Up / Down _____ Sampler: MW IF _____

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes ☒ No ☐ If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 33.72

Initial Static Water Level (feet): 24.19

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump
☐ Other: ☐ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 1.4

Was well pumped/bailed dry? *no*

Total Amount of Time Purged (minutes:seconds) 7

Average Purge Rate (mL/min) 155.55

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

47° wind
4 mph SSW
Sun

FORM FOR GROUNDWATER SAMPLING

Project:		
Monitoring Well/Piezometer ID:	MW 18A-07	Date: 10.9.24
Gradient (circle one): Up / Down	Sampler:	

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 32.80

Initial Static Water Level (feet): 23.79

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 16

Was well pumped/bailed dry? *Yes*

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 137.77

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No /

If yes, explain:

Additional Comments:

50° Wind
4 mph SW
FULL SUN

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: MW-24A	Date: 12/15/24
Gradient (circle one): Up / Down	Sampler: M F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 45.36

Initial Static Water Level (feet): 29.36

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump
 ☒ Dedicated Bailer ☐ Other: QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	Static Water Level (feet)	
8:34	Purging start time						29.36	
8:37	13.4	26.4	745	6.57	}	}	30.11	
8:40	13.4	13.7	750	6.57			30.33	
8:43	13.5	9.7	751	6.57			30.54	
Pump shut-off, sample collected.								

Quantity of Water Removed from Well (circle units: liters gallons): 1.9

Was well pumped/bailed dry? 1.6

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 211.11

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

38°
11mph N wind
SUN

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: MW-25A-00 Date: 10/15/24
Gradient (circle one): Up / Down Sampler: MW F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes ☐ No ☒ If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 29.93

Initial Static Water Level (feet): 1933

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump ☒ Other: QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

[illegible]Quantity of Water Removed from Well (circle units: liters / gallons): 9

Was well pumped/bailed dry? NO

Total Amount of Time Purged (minutes:seconds) 7

Average Purge Rate (mL/min) 21.11

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes/No

If yes, explain:

Additional Comments:

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID:	Date: 10/10/24
Gradient (circle one): Up / Down <i>mw 29A</i>	Sampler: <i>M F</i>

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 20.0

Initial Static Water Level (feet): 13.25

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 1.8

Was well pumped/bailed dry? *N 2*

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

47' 6mph E
Full Sun

FORM FOR GROUNDWATER SAMPLING

Project:		
Monitoring Well/Piezometer ID:	3/B/Dup2	Date: 10/11/24
Gradient (circle one): Up / Down	Sampler: AW F	

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes ~~No~~ If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 45.70

Initial Static Water Level (feet): 36.86

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump ☒ Other: WATER ☐ Dedicated Submersible Pump ☐ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

[illegible]

Quantity of Water Removed from Well (circle units: liters) / gallons: 3.0

Was well pumped/bailed dry? ☒ NO

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 333.32

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

72°
9 mph SSW
Sun

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: 200A Date: 10.10.24
Gradient (circle one): Up / Down Sampler: MF

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes ☐ No ☒ If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 35.34

Initial Static Water Level (feet): 20.47

Initial Groundwater Elevation (ft.-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 1.7

Was well pumped/bailed dry? *N8*

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min) 188.88

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes ☐ No ☒

If yes, explain:

Additional Comments:

540

6 mph

SN

ESE
WIND

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: MW-201A	Date: 10/9/24
Gradient (circle one): Up / Down	Sampler: MF

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 28.28

Initial Static Water Level (feet): 29.46

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 1,1

Was well pumped/bailed dry? ☒ Y ☐ N

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 1.22

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

60° 6 mph SW
SW

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: MW-206A	Date: 10.10.24
Gradient (circle one): Up / Down	Sampler: <i>Am</i>

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 20.11

Initial Static Water Level (feet): 12.05

Initial Groundwater Elevation (ft.-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters) / gallons: 2.2

Was well pumped/bailed dry? NO

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes/No

If yes, explain:

Additional Comments:

77°

6m Ph
SUNNY

SE

FORM FOR GROUNDWATER SAMPLING

Project: _____
 Monitoring Well/Piezometer ID: 207A Date: 10/9/24
 Gradient (circle one): Up / Down Sampler: MJ

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain: _____

Litter/Standing Water? (circle one): Yes No If Yes, explain: _____

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): _____

Initial Static Water Level (feet): 619.08

Initial Groundwater Elevation (ft-amsl): _____

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other: _____

☐ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	Static Water Level (feet)
8:40	Purging start time						6.90
8:43	14.0	19.8	853	6.74			7.24
8:46	14.0	12.8	847	6.77			7.29
8:49	14.0	9.9	849	6.78			7.31

Quantity of Water Removed from Well (circle units: liters / gallons): 2.0

Was well pumped/bailed dry? NO

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 222.22

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes No

If yes, explain: _____

Additional Comments:

540 WIND
4mph SW
Full SUN

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: NW 209B Date: 10.9.24
Gradient (circle one): Up / Down Sampler: MF

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one) Yes ~~No~~ If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 731.0

Initial Static Water Level (feet): 14.48

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 2.1

Was well pumped/bailed dry? NO

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 233.3

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

60°
5mph SW
SW

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: 21/B Date: 10/02/24
Gradient (circle one): Up / Down Sampler: AW F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes ☒ No ☐ If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 3481

Initial Static Water Level (feet): 15.99

Initial Groundwater Elevation (ft.-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

- Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters) / gallons: 1 / 1

Was well pumped/bailed dry? *N*

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes /No

If yes, explain:

Additional Comments:

72°
5 mph
Full
Sun

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: 212A Date: 10/02/24
Gradient (circle one): Up / Down Sampler: MF

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 29.42

Initial Static Water Level (feet): 1409

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

- Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]Quantity of Water Removed from Well (circle units: liters / gallons): 1

Was well pumped/bailed dry? NO

Total Amount of Time Purged (minutes;seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes no

If yes, explain:

Needs a cap

Additional Comments:

72° SmpH SSE
SUN

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: MW-210A Date: 6/14/11
Gradient (circle one): Up / Down Sampler: MF

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 37.00

Initial Static Water Level (feet): 30.18

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

~~QED~~

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters gallons): 2.0

Was well pumped/bailed dry? NO

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes ☐ No ☒

If yes, explain:

Additional Comments:

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: mw-217A Dup 1 Date: 10/14/24
Gradient (circle one): Up / Down Sampler: MW/F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 42.60

Initial Static Water Level (feet): 36.40

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump

■ Dedicated Submersible Pump

☐ Other:

~~LOED~~

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: ~~liters~~ / gallons): 20

Was well pumped/bailed dry? *NO*

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / ☒ No

If yes, explain:

Additional Comments:

48.

12m pL pNW

P. Sunny

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: MW-218A	Date: 10/15/24
Gradient (circle one): Up / Down	Sampler: MW F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes ~~No~~ If No, explain:

Litter/Standing Water? (circle one): Yes ☒ No ☐ If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 42.50

Initial Static Water Level (feet): 28.46

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 2.0

Was well pumped/bailed dry?

Total Amount of Time Purged (minutes/seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

430

13m ph

NNE

522

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: <u>MW 219A</u>	Date: <u>10/14/24</u>
Gradient (circle one): Up / Down	Sampler: <u>MJ</u>

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 53.18

Initial Static Water Level (feet): 22.85

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

~~QED~~

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters gallons): 2

Was well pumped/bailed dry?

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 233.33

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

550

11 mph NNW

p. sunny

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: MW-220A	Date: 10/15/24
Gradient (circle one): Up / Down	Sampler: MW J

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 38.02

Initial Static Water Level (feet): 30.52

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

~~□ QED~~

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 2.1

Was well pumped/bailed dry? ☒

Total Amount of Time Purged (minutes:seconds)

Average Purge Rate (mL/min) 733.23

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

450

13 mph

NNE

50W

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: <u>MW 306A</u>	Date: <u>6-10-24</u>
Gradient (circle one): Up / Down	Sampler: <u>AW F</u>

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 73.86

Initial Static Water Level (feet): 15.86

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump
☐ Other: ☐ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 1.8

Was well pumped/bailed dry? NE

Total Amount of Time Purged (minutes.seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: 310A Date: 10.10.24
Gradient (circle one): Up / Down Sampler: MF

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes/No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 74.28

Initial Static Water Level (feet): 10.49

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 2 /

Was well pumped/bailed dry? *N*

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 273.37

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: mw 312A Date: 10/9/24
Gradient (circle one): Up / Down Sampler: MM

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 22.28

Initial Static Water Level (feet): 12.49

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump

☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters / gallons): 2.2

Was well pumped/bailed dry?

Total Amount of Time Purged (minutes.seconds) 9

Average Purge Rate (mL/min) 244.44

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

77° 9 mph SW
SWN

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: MW-404 Date: 10/14/24
Gradient (circle one): Up / Down Sampler: MW F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 41.44

Initial Static Water Level (feet): 16.34

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump ☒ QED
☐ Other:

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units) liters / gallons: 34

Was well pumped/bailed dry? *No*

Total Amount of Time Purged (minutes:seconds) 15

Average Purge Rate (mL/min) 377.77

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes ☐ No ☒

If yes, explain:

Additional Comments:

56

11 mph WNW
cloudy

FORM FOR GROUNDWATER SAMPLING

Project: _____
 Monitoring Well/Piezometer ID: MW-407 Date: 10/14/24
 Gradient (circle one): Up / Down Sampler: MW F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain: _____

Litter/Standing Water? (circle one): Yes No If Yes, explain: _____

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 41.39

Initial Static Water Level (feet): 13.11

Initial Groundwater Elevation (ft-amsl): _____

Equipment Used (check one): ☐ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump
☐ Other: QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	Static Water Level (feet)
14:14	Purging start time						13.11
14:17	12.8	26.8	718	7.14			14.84
14:20	12.8	14.5	725	7.16			15.79
14:23	12.7	10.6	726	7.18			16.77

Quantity of Water Removed from Well (circle units: liters gallons): 2.1

Was well pumped/bailed dry? No

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 233.33

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain: _____

Additional Comments:

56°

11 mph MNW
cloudy

FORM FOR GROUNDWATER SAMPLING

Project:	
Monitoring Well/Piezometer ID: MW 408	Date: 10/10/24
Gradient (circle one): Up / Down	Sampler: MF

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 19.36

Initial Static Water Level (feet): 12.59

Initial Groundwater Elevation (ft.-amsl):

Equipment Used (check one): ☒ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump

☐ Other:

□ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units): liters / gallons: 2.1

Was well pumped/bailed dry?

Total Amount of Time Purged (minutes.seconds)

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes ☐ No ☒

If yes, explain:

Additional Comments:

50° 6m 4 E
Sun

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: MW-409 Date: 10/10/24
Gradient (circle one): Up / Down Sampler: M F

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 33.85

Initial Static Water Level (feet):

Initial Groundwater Elevation (ft-amsl): 10.00

Equipment Used (check one): ☒ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump
☐ Other: ☐ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (NTU)	Static Water Level (feet)
13:46	Purging start time						16.02
13:49	15.5	125.0	1131	6.33			16.46
13:52	15.0	11.8	1144	6.32			16.52
13:55	14.8	12.8	1144	6.32			16.59
Pump shut-off, sample collected.							

Quantity of Water Removed from Well (circle units: ~~liters~~ gallons): 1.4

Was well pumped/bailed dry? *NO*

Total Amount of Time Purged (minutes:seconds) 4

Average Purge Rate (mL/min)

D. WELL MAINTENANCE

Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

730 6mph SSE
SUN

FORM FOR GROUNDWATER SAMPLING

Project: _____
Monitoring Well/Piezometer ID: mw-410 Date: 10/14/24
Gradient (circle one): Up / Down Sampler: MF

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped? (circle one): Yes No If No, explain:

Litter/Standing Water? (circle one): Yes No If Yes, explain:

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet): 78.35

Initial Static Water Level (feet): 391.5

Initial Groundwater Elevation (ft-amsl):

Equipment Used (check one): ☐ Dedicated Peristaltic Pump ☐ Dedicated Submersible Pump ☒ Other: ☒ QED

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] **RECORD EVERY 3 MINUTES**

[illegible]

Quantity of Water Removed from Well (circle units: liters) / gallons: 3.0

Was well pumped/bailed dry? *No*

Total Amount of Time Purged (minutes:seconds) 9

Average Purge Rate (mL/min) 33 3.3 7

D. WELL MAINTENANCE

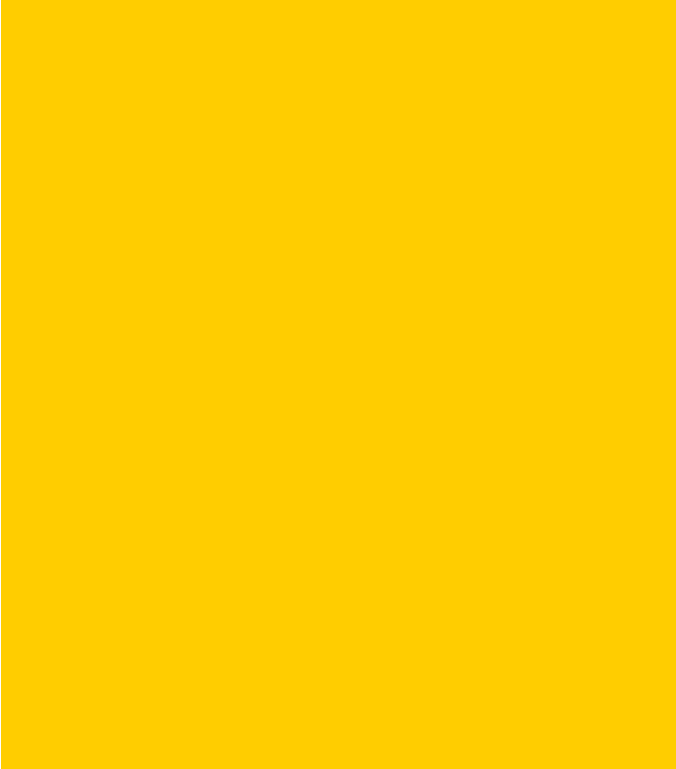
Does the monitoring well/piezometer require any future maintenance? Yes / No

If yes, explain:

Additional Comments:

550

11 mph KNN
p. Sunny



Appendix D

October 2024 Laboratory Analytical Reports

*Spring 2024 laboratory analytical reports can be found in the 2024 Spring Sampling Notification (IDNR Doc # 110314).



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ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Wilson
HDR Inc
1917 S 67th Street
Omaha, Nebraska 68106
Generated 10/30/2024 4:20:15 PM

JOB DESCRIPTION

Iowa City Landfill

JOB NUMBER

310-292673-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorized for release by
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Case Narrative

Client: HDR Inc
Project: Iowa City Landfill

Job ID: 310-292673-1

Job ID: 310-292673-1

Eurofins Cedar Falls

Job Narrative 310-292673-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/11/2024 1:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.7°C, 2.3°C, 3.2°C and 4.0°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-436465 recovered outside control limits for Iodomethane (-51.4%D). The LCS associated with this CCV passes CCV criteria for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-436465/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides

Method 8151A: The DCAA surrogate recovery for the continuing calibration verification (CCV) with preparation batch 410-563718 and analytical batch 410-564218 was outside the lower control limits. The recoveries for the analytes of interest were within acceptable control limits. The data is reported. MW-209B (310-292673-17)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-292673-1	MW-409	Water	10/10/24 13:58	10/11/24 13:50
310-292673-2	MW-1B	Water	10/10/24 13:33	10/11/24 13:50
310-292673-3	MW-206A	Water	10/10/24 14:21	10/11/24 13:50
310-292673-4	MW-212A	Water	10/10/24 13:00	10/11/24 13:50
310-292673-5	MW-310A	Water	10/10/24 11:01	10/11/24 13:50
310-292673-6	MW-306A	Water	10/10/24 10:38	10/11/24 13:50
310-292673-7	MW-211B	Water	10/10/24 12:28	10/11/24 13:50
310-292673-8	MW-16A	Water	10/10/24 10:04	10/11/24 13:50
310-292673-9	MW-200A	Water	10/10/24 09:11	10/11/24 13:50
310-292673-10	MW-29A	Water	10/10/24 08:09	10/11/24 13:50
310-292673-11	MW-11B	Water	10/10/24 09:37	10/11/24 13:50
310-292673-12	MW-408	Water	10/10/24 08:34	10/11/24 13:50
310-292673-13	MW-312A	Water	10/09/24 14:54	10/11/24 13:50
310-292673-14	MW-15A	Water	10/09/24 15:33	10/11/24 13:50
310-292673-15	MW-201A	Water	10/09/24 10:47	10/11/24 13:50
310-292673-16	MW-10B	Water	10/09/24 13:01	10/11/24 13:50
310-292673-17	MW-209B	Water	10/09/24 10:01	10/11/24 13:50
310-292673-18	MW-207A	Water	10/09/24 08:52	10/11/24 13:50
310-292673-19	MW-11D	Water	10/09/24 13:23	10/11/24 13:50
310-292673-20	MW-6B	Water	10/09/24 09:19	10/11/24 13:50
310-292673-21	MW-18A-07	Water	10/09/24 08:20	10/11/24 13:50
310-292673-22	MW-18AR	Water	10/09/24 07:53	10/11/24 13:50
310-292673-23	TB-2	Water	10/09/24 00:00	10/11/24 13:50
310-292673-24	TB-3	Water	10/09/24 00:00	10/11/24 13:50
310-292673-25	TB-5	Water	10/09/24 00:00	10/11/24 13:50
310-292673-26	TB-6	Water	10/09/24 00:00	10/11/24 13:50

Detection Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-409

Lab Sample ID: 310-292673-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0321		0.00200	0.000530	mg/L	1		6020B	Total/NA
Cobalt	0.00831		0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	48.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-1B

Lab Sample ID: 310-292673-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.630		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	42.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-206A

Lab Sample ID: 310-292673-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.504	J	1.00	0.210	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	3.13		1.00	0.220	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.69		1.00	0.480	ug/L	1		8260D	Total/NA
Trichloroethene	1.39		1.00	0.430	ug/L	1		8260D	Total/NA
Dichlorodifluoromethane	2.88	J	3.00	0.250	ug/L	1		8260D	Total/NA
Barium	0.122		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00358	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: MW-212A

Lab Sample ID: 310-292673-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10.9		10.0	3.10	ug/L	1		8260D	Total/NA
Arsenic	0.00233		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.668		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000529		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00555		0.00500	0.00180	mg/L	1		6020B	Total/NA
Thallium	0.000832	J	0.00100	0.000570	mg/L	1		6020B	Total/NA
Vanadium	0.00502		0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	24.8		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-310A

Lab Sample ID: 310-292673-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.124		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.63	J	1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-306A

Lab Sample ID: 310-292673-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	2.38		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-211B

Lab Sample ID: 310-292673-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0225		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.714		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0509		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0470		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	49.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-16A

Lab Sample ID: 310-292673-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.437	J	0.500	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	7.34		1.00	0.210	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	7.77		1.00	0.220	ug/L	1		8260D	Total/NA
1,2-Dichloroethane	0.793	J	1.00	0.390	ug/L	1		8260D	Total/NA
1,2-Dichloropropane	2.30		1.00	0.270	ug/L	1		8260D	Total/NA
Tetrachloroethene	2.61		1.00	0.480	ug/L	1		8260D	Total/NA
Trichloroethene	2.77		1.00	0.430	ug/L	1		8260D	Total/NA
Vinyl chloride	2.64		1.00	0.180	ug/L	1		8260D	Total/NA
Dichlorodifluoromethane	1.86	J	3.00	0.250	ug/L	1		8260D	Total/NA
Barium	0.556		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00184		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00402	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.000755	J	0.00100	0.000570	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.63		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-200A

Lab Sample ID: 310-292673-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.797	J	3.00	0.250	ug/L	1		8260D	Total/NA
Barium	1.07		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000263	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.38		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-29A

Lab Sample ID: 310-292673-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00111	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.284		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00642		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0211		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	5.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-11B

Lab Sample ID: 310-292673-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.259	J	1.00	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.0896		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.461		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00142		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00715		0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.000592	J	0.00100	0.000570	mg/L	1		6020B	Total/NA
Total Suspended Solids	78.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-408

Lab Sample ID: 310-292673-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.177		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000359		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000490	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00322	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.000668	J	0.00100	0.000570	mg/L	1		6020B	Total/NA
Vanadium	0.00449	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	20.6		1.88	1.39	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-312A

Lab Sample ID: 310-292673-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.171		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00607		0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.000318	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00227	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Thallium	0.000628	J	0.00100	0.000570	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.63		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-15A

Lab Sample ID: 310-292673-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0147		0.00200	0.000530	mg/L	1		6020B	Total/NA
Total Suspended Solids	39.8		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-201A

Lab Sample ID: 310-292673-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.416	J	1.00	0.220	ug/L	1		8260D	Total/NA
Barium	0.247		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	12.4		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-10B

Lab Sample ID: 310-292673-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.31		1.00	0.430	ug/L	1		8260D	Total/NA
Barium	0.148		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000166	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Selenium	0.00519		0.00500	0.00140	mg/L	1		6020B	Total/NA
Vanadium	0.00169	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-209B

Lab Sample ID: 310-292673-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.55	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	9.27		0.500	0.220	ug/L	1		8260D	Total/NA
Chlorobenzene	0.750	J	1.00	0.400	ug/L	1		8260D	Total/NA
Xylenes, Total	8.58		3.00	0.400	ug/L	1		8260D	Total/NA
Silvex (2,4,5-TP)	1.35		0.274	0.121	ug/L	5		8151A	Total/NA
Arsenic	0.0297		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.659		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00192		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0552		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00158	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Sulfide	1.47		1.00	0.231	mg/L	1		9034	Total/NA
Total Suspended Solids	140		30.0	22.2	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-207A

Lab Sample ID: 310-292673-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0617		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.423		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000706		0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	67.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-11D

Lab Sample ID: 310-292673-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.00251		0.00200	0.000530	mg/L		1		6020B	Total/NA
Total Suspended Solids	19.5		3.75	2.78	mg/L		1		I-3765-85	Total/NA

Client Sample ID: MW-6B

Lab Sample ID: 310-292673-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.0338		0.00200	0.000530	mg/L		1		6020B	Total/NA
Barium	0.595		0.00200	0.000660	mg/L		1		6020B	Total/NA
Cobalt	0.0110		0.000500	0.000170	mg/L		1		6020B	Total/NA
Lead	0.000316	J	0.000500	0.000260	mg/L		1		6020B	Total/NA
Nickel	0.0104		0.00500	0.00210	mg/L		1		6020B	Total/NA
Total Suspended Solids	46.0		15.0	11.1	mg/L		1		I-3765-85	Total/NA

Client Sample ID: MW-18A-07

Lab Sample ID: 310-292673-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Tetrachloroethene	24.6		1.00	0.480	ug/L		1		8260D	Total/NA
Trichloroethene	28.9		1.00	0.430	ug/L		1		8260D	Total/NA
Vinyl chloride	21.5		1.00	0.180	ug/L		1		8260D	Total/NA
Benzene	1.74		0.500	0.220	ug/L		1		8260D	Total/NA
Arsenic	0.00305		0.00200	0.000530	mg/L		1		6020B	Total/NA
Cobalt	0.00281		0.000500	0.000170	mg/L		1		6020B	Total/NA
Total Suspended Solids	4.00		1.88	1.39	mg/L		1		I-3765-85	Total/NA

Client Sample ID: MW-18AR

Lab Sample ID: 310-292673-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.36		1.00	0.210	ug/L		1		8260D	Total/NA
1,1-Dichloroethane	0.481	J	1.00	0.220	ug/L		1		8260D	Total/NA
Tetrachloroethene	3.95		1.00	0.480	ug/L		1		8260D	Total/NA
Trichloroethene	1.10		1.00	0.430	ug/L		1		8260D	Total/NA
Trichlorofluoromethane	2.14	J	4.00	0.380	ug/L		1		8260D	Total/NA
Dichlorodifluoromethane	5.28		3.00	0.250	ug/L		1		8260D	Total/NA
Barium	0.773		0.00200	0.000660	mg/L		1		6020B	Total/NA

Client Sample ID: TB-2

Lab Sample ID: 310-292673-23

No Detections.

Client Sample ID: TB-3

Lab Sample ID: 310-292673-24

No Detections.

Client Sample ID: TB-5

Lab Sample ID: 310-292673-25

No Detections.

Client Sample ID: TB-6

Lab Sample ID: 310-292673-26

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-409

Lab Sample ID: 310-292673-1

Date Collected: 10/10/24 13:58

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0321		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 14:56	1
Cobalt	0.00831		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	48.0		15.0	11.1	mg/L			10/15/24 12:58	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-1B

Lab Sample ID: 310-292673-2

Date Collected: 10/10/24 13:33

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 11:46	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 11:46	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 11:46	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 11:46	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 11:46	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 11:46	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 11:46	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 11:46	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 11:46	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 11:46	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 11:46	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 11:46	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 11:46	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 11:46	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 11:46	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 11:46	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 11:46	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 11:46	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 11:46	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 11:46	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 11:46	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 11:46	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 11:46	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 11:46	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 11:46	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 11:46	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 11:46	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 11:46	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 11:46	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 11:46	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 11:46	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 11:46	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 11:46	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 11:46	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 11:46	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 11:46	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 11:46	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 11:46	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 11:46	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 11:46	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 11:46	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 11:46	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 11:46	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 11:46	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 11:46	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 11:46	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 11:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/17/24 11:46	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-1B

Lab Sample ID: 310-292673-2

Date Collected: 10/10/24 13:33

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/17/24 11:46	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 11:46	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 14:58	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 14:58	1
Barium	0.630		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 14:58	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 14:58	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 14:58	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 14:58	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 14:58	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 14:58	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 14:58	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 16:40	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 14:58	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 14:58	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 16:40	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 14:58	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	42.0		15.0	11.1	mg/L			10/15/24 12:58	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-206A

Lab Sample ID: 310-292673-3

Date Collected: 10/10/24 14:21

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 12:09	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 12:09	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 12:09	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 12:09	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 12:09	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 12:09	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 12:09	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 12:09	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 12:09	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 12:09	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 12:09	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 12:09	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 12:09	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 12:09	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 12:09	1
cis-1,2-Dichloroethene	0.504	J	1.00	0.210	ug/L			10/17/24 12:09	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 12:09	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 12:09	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 12:09	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 12:09	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 12:09	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 12:09	1
1,1-Dichloroethane	3.13		1.00	0.220	ug/L			10/17/24 12:09	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 12:09	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 12:09	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 12:09	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 12:09	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 12:09	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 12:09	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 12:09	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 12:09	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 12:09	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 12:09	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 12:09	1
Tetrachloroethene	1.69		1.00	0.480	ug/L			10/17/24 12:09	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 12:09	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 12:09	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 12:09	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 12:09	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 12:09	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 12:09	1
Trichloroethene	1.39		1.00	0.430	ug/L			10/17/24 12:09	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 12:09	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 12:09	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 12:09	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 12:09	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 12:09	1
Dichlorodifluoromethane	2.88	J	3.00	0.250	ug/L			10/17/24 12:09	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-206A

Lab Sample ID: 310-292673-3

Date Collected: 10/10/24 14:21

Matrix: Water

Date Received: 10/11/24 13:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/17/24 12:09	1
Dibromofluoromethane (Surr)	102		73 - 130		10/17/24 12:09	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 12:09	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 15:01	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:01	1
Barium	0.122		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:01	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 15:01	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 15:01	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 15:01	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:01	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:01	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:01	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 16:51	1
Selenium	0.00358 J		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 15:01	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 15:01	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 16:51	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 15:01	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			10/15/24 10:50	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-212A

Lab Sample ID: 310-292673-4

Date Collected: 10/10/24 13:00

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10.9		10.0	3.10	ug/L			10/17/24 12:32	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 12:32	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 12:32	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 12:32	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 12:32	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 12:32	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 12:32	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 12:32	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 12:32	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 12:32	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 12:32	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 12:32	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 12:32	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 12:32	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 12:32	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 12:32	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 12:32	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 12:32	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 12:32	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 12:32	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 12:32	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 12:32	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 12:32	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 12:32	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 12:32	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 12:32	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 12:32	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 12:32	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 12:32	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 12:32	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 12:32	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 12:32	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 12:32	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 12:32	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 12:32	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 12:32	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 12:32	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 12:32	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 12:32	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 12:32	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 12:32	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 12:32	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 12:32	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 12:32	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 12:32	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 12:32	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/17/24 12:32	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-212A

Lab Sample ID: 310-292673-4

Date Collected: 10/10/24 13:00

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		10/17/24 12:32	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 12:32	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 15:03	1
Arsenic	0.00233		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:03	1
Barium	0.668		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:03	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 15:03	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 15:03	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 15:03	1
Cobalt	0.000529		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:03	1
Copper	0.00555		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:03	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:03	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 16:54	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 15:03	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 15:03	1
Thallium	0.000832	J	0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 16:54	1
Vanadium	0.00502		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 15:03	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	24.8		3.75	2.78	mg/L			10/15/24 10:50	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-310A

Lab Sample ID: 310-292673-5

Date Collected: 10/10/24 11:01

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 12:54	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 12:54	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 12:54	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 12:54	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 12:54	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 12:54	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 12:54	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 12:54	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 12:54	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 12:54	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 12:54	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 12:54	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 12:54	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 12:54	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 12:54	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 12:54	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 12:54	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 12:54	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 12:54	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 12:54	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 12:54	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 12:54	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 12:54	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 12:54	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 12:54	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 12:54	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 12:54	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 12:54	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 12:54	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 12:54	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 12:54	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 12:54	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 12:54	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 12:54	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 12:54	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 12:54	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 12:54	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 12:54	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 12:54	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 12:54	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 12:54	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 12:54	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 12:54	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 12:54	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 12:54	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 12:54	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		10/17/24 12:54	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-310A

Lab Sample ID: 310-292673-5

Date Collected: 10/10/24 11:01

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/17/24 12:54	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 12:54	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 15:15	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:15	1
Barium	0.124		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:15	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 15:15	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 15:15	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 15:15	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:15	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:15	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:15	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 16:56	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 15:15	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 15:15	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 16:56	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 15:15	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	1.63	J	1.88	1.39	mg/L			10/15/24 12:58	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-306A

Lab Sample ID: 310-292673-6

Date Collected: 10/10/24 10:38

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L	-		10/17/24 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/17/24 13:17	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 13:17	1
4-Bromofluorobenzene (Surr)	101		80 - 120		10/17/24 13:17	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L	-	10/15/24 09:30	10/16/24 15:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.38		1.88	1.39	mg/L	-		10/15/24 12:58	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-211B

Lab Sample ID: 310-292673-7

Date Collected: 10/10/24 12:28

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 13:40	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 13:40	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 13:40	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 13:40	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 13:40	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 13:40	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 13:40	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 13:40	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 13:40	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 13:40	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 13:40	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 13:40	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 13:40	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 13:40	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 13:40	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 13:40	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 13:40	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 13:40	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 13:40	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 13:40	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 13:40	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 13:40	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 13:40	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 13:40	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 13:40	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 13:40	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 13:40	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 13:40	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 13:40	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 13:40	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 13:40	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 13:40	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 13:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 13:40	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 13:40	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 13:40	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 13:40	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 13:40	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 13:40	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 13:40	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 13:40	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 13:40	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 13:40	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 13:40	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 13:40	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 13:40	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/17/24 13:40	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-211B

Lab Sample ID: 310-292673-7

Date Collected: 10/10/24 12:28

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		10/17/24 13:40	1
Toluene-d8 (Surr)	97		80 - 120		10/17/24 13:40	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 15:20	1
Arsenic	0.0225		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:20	1
Barium	0.714		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:20	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 15:20	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 15:20	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 15:20	1
Cobalt	0.0509		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:20	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:20	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:20	1
Nickel	0.0470		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 16:58	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 15:20	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 15:20	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 16:58	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 15:20	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	49.0		15.0	11.1	mg/L			10/15/24 12:16	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-16A

Lab Sample ID: 310-292673-8

Date Collected: 10/10/24 10:04

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 14:02	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 14:02	1
Benzene	0.437	J	0.500	0.220	ug/L			10/17/24 14:02	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 14:02	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 14:02	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 14:02	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 14:02	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 14:02	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 14:02	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 14:02	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 14:02	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 14:02	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 14:02	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 14:02	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 14:02	1
cis-1,2-Dichloroethene	7.34		1.00	0.210	ug/L			10/17/24 14:02	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 14:02	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 14:02	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 14:02	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 14:02	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 14:02	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 14:02	1
1,1-Dichloroethane	7.77		1.00	0.220	ug/L			10/17/24 14:02	1
1,2-Dichloroethane	0.793	J	1.00	0.390	ug/L			10/17/24 14:02	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 14:02	1
1,2-Dichloropropane	2.30		1.00	0.270	ug/L			10/17/24 14:02	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 14:02	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 14:02	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 14:02	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 14:02	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 14:02	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 14:02	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 14:02	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 14:02	1
Tetrachloroethene	2.61		1.00	0.480	ug/L			10/17/24 14:02	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 14:02	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 14:02	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 14:02	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 14:02	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 14:02	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 14:02	1
Trichloroethene	2.77		1.00	0.430	ug/L			10/17/24 14:02	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 14:02	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 14:02	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 14:02	1
Vinyl chloride	2.64		1.00	0.180	ug/L			10/17/24 14:02	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 14:02	1
Dichlorodifluoromethane	1.86	J	3.00	0.250	ug/L			10/17/24 14:02	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-16A

Lab Sample ID: 310-292673-8

Date Collected: 10/10/24 10:04

Matrix: Water

Date Received: 10/11/24 13:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/17/24 14:02	1
Dibromofluoromethane (Surr)	101		73 - 130		10/17/24 14:02	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 14:02	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 15:22	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:22	1
Barium	0.556		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:22	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 15:22	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 15:22	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 15:22	1
Cobalt	0.00184		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:22	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:22	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:22	1
Nickel	0.00402	J	0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:00	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 15:22	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 15:22	1
Thallium	0.000755	J	0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 17:00	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 15:22	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 15:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.63		1.88	1.39	mg/L			10/15/24 12:58	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-200A

Lab Sample ID: 310-292673-9

Date Collected: 10/10/24 09:11

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 14:25	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 14:25	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 14:25	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 14:25	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 14:25	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 14:25	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 14:25	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 14:25	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 14:25	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 14:25	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 14:25	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 14:25	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 14:25	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 14:25	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 14:25	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 14:25	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 14:25	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 14:25	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 14:25	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 14:25	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 14:25	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 14:25	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 14:25	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 14:25	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 14:25	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 14:25	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 14:25	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 14:25	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 14:25	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 14:25	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 14:25	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 14:25	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 14:25	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 14:25	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 14:25	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 14:25	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 14:25	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 14:25	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 14:25	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 14:25	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 14:25	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 14:25	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 14:25	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 14:25	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 14:25	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 14:25	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 14:25	1
Dichlorodifluoromethane	0.797 J		3.00	0.250	ug/L			10/17/24 14:25	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-200A

Lab Sample ID: 310-292673-9

Date Collected: 10/10/24 09:11

Matrix: Water

Date Received: 10/11/24 13:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/17/24 14:25	1
Dibromofluoromethane (Surr)	100		73 - 130		10/17/24 14:25	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 14:25	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:27	1
Barium	1.07		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:27	1
Cobalt	0.000263	J	0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:27	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:27	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:27	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	9.38		1.88	1.39	mg/L			10/15/24 12:16	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-29A

Lab Sample ID: 310-292673-10

Date Collected: 10/10/24 08:09

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 21:14	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 21:14	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 21:14	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 21:14	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 21:14	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 21:14	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 21:14	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 21:14	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 21:14	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 21:14	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 21:14	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 21:14	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 21:14	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 21:14	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 21:14	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 21:14	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 21:14	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 21:14	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 21:14	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 21:14	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 21:14	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 21:14	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 21:14	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 21:14	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 21:14	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 21:14	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 21:14	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 21:14	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 21:14	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 21:14	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 21:14	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 21:14	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 21:14	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 21:14	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 21:14	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 21:14	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 21:14	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 21:14	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 21:14	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 21:14	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 21:14	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 21:14	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 21:14	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 21:14	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 21:14	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 21:14	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/17/24 21:14	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-29A

Lab Sample ID: 310-292673-10

Date Collected: 10/10/24 08:09

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/17/24 21:14	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 21:14	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00111	J	0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:29	1
Barium	0.284		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:29	1
Cobalt	0.00642		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:29	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:29	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:29	1
Nickel	0.0211		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	5.88		1.88	1.39	mg/L			10/15/24 12:16	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-11B

Lab Sample ID: 310-292673-11

Date Collected: 10/10/24 09:37

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 21:36	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 21:36	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 21:36	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 21:36	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 21:36	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 21:36	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 21:36	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 21:36	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 21:36	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 21:36	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 21:36	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 21:36	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 21:36	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 21:36	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 21:36	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 21:36	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 21:36	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 21:36	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 21:36	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 21:36	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 21:36	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 21:36	1
1,1-Dichloroethane	0.259 J		1.00	0.220	ug/L			10/17/24 21:36	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 21:36	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 21:36	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 21:36	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 21:36	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 21:36	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 21:36	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 21:36	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 21:36	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 21:36	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 21:36	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 21:36	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 21:36	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 21:36	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 21:36	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 21:36	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 21:36	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 21:36	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 21:36	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 21:36	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 21:36	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 21:36	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 21:36	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 21:36	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/17/24 21:36	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-11B

Lab Sample ID: 310-292673-11

Date Collected: 10/10/24 09:37

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		10/17/24 21:36	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 21:36	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 15:31	1
Arsenic	0.0896		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:31	1
Barium	0.461		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:31	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 15:31	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 15:31	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 15:31	1
Cobalt	0.00142		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:31	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:31	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:31	1
Nickel	0.00715		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:09	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 15:31	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 15:31	1
Thallium	0.000592 J		0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 17:09	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 15:31	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	78.0		15.0	11.1	mg/L			10/15/24 12:58	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-408

Lab Sample ID: 310-292673-12

Date Collected: 10/10/24 08:34

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 21:59	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 21:59	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 21:59	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 21:59	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 21:59	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 21:59	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 21:59	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 21:59	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 21:59	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 21:59	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 21:59	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 21:59	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 21:59	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 21:59	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 21:59	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 21:59	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 21:59	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 21:59	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 21:59	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 21:59	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 21:59	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 21:59	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 21:59	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 21:59	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 21:59	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 21:59	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 21:59	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 21:59	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 21:59	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 21:59	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 21:59	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 21:59	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 21:59	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 21:59	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 21:59	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 21:59	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 21:59	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 21:59	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 21:59	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 21:59	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 21:59	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 21:59	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 21:59	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 21:59	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 21:59	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 21:59	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/17/24 21:59	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-408

Lab Sample ID: 310-292673-12

Date Collected: 10/10/24 08:34

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/17/24 21:59	1
Toluene-d8 (Surr)	97		80 - 120		10/17/24 21:59	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 15:34	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:34	1
Barium	0.177		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:34	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 15:34	1
Cadmium	0.000359		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 15:34	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 15:34	1
Cobalt	0.000490	J	0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:34	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:34	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:34	1
Nickel	0.00322	J	0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:11	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 15:34	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 15:34	1
Thallium	0.000668	J	0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 17:11	1
Vanadium	0.00449	J	0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 15:34	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 15:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	20.6		1.88	1.39	mg/L			10/15/24 10:50	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-312A

Lab Sample ID: 310-292673-13

Date Collected: 10/09/24 14:54

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 22:22	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 22:22	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 22:22	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 22:22	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 22:22	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 22:22	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 22:22	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 22:22	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 22:22	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 22:22	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 22:22	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 22:22	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 22:22	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 22:22	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 22:22	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 22:22	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 22:22	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 22:22	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 22:22	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 22:22	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 22:22	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 22:22	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 22:22	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 22:22	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 22:22	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 22:22	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 22:22	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 22:22	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 22:22	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 22:22	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 22:22	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 22:22	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 22:22	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 22:22	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 22:22	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 22:22	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 22:22	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 22:22	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 22:22	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 22:22	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 22:22	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 22:22	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 22:22	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 22:22	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 22:22	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 22:22	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 22:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		10/17/24 22:22	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-312A

Lab Sample ID: 310-292673-13

Date Collected: 10/09/24 14:54

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		73 - 130		10/17/24 22:22	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 22:22	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 15:36	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:36	1
Barium	0.171		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:36	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 15:36	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 15:36	1
Chromium	0.00607		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 15:36	1
Cobalt	0.000318	J	0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:36	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:36	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:36	1
Nickel	0.00227	J	0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:23	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 15:36	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 15:36	1
Thallium	0.000628	J	0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 17:23	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 15:36	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 15:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.63		1.88	1.39	mg/L			10/15/24 10:15	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-15A

Lab Sample ID: 310-292673-14

Date Collected: 10/09/24 15:33

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0147		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	39.8		3.75	2.78	mg/L			10/15/24 10:15	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-201A

Lab Sample ID: 310-292673-15

Date Collected: 10/09/24 10:47

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 22:45	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 22:45	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 22:45	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 22:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 22:45	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 22:45	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 22:45	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 22:45	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 22:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 22:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 22:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 22:45	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 22:45	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 22:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 22:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 22:45	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 22:45	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 22:45	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 22:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 22:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 22:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 22:45	1
1,1-Dichloroethane	0.416 J		1.00	0.220	ug/L			10/17/24 22:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 22:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 22:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 22:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 22:45	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 22:45	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 22:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 22:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 22:45	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 22:45	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 22:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 22:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 22:45	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 22:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 22:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 22:45	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 22:45	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 22:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 22:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 22:45	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 22:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 22:45	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 22:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 22:45	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/17/24 22:45	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-201A

Lab Sample ID: 310-292673-15

Date Collected: 10/09/24 10:47

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/17/24 22:45	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 22:45	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:50	1
Barium	0.247		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:50	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:50	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:50	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:50	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	12.4		1.88	1.39	mg/L			10/15/24 10:15	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-10B

Lab Sample ID: 310-292673-16

Date Collected: 10/09/24 13:01

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 23:08	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 23:08	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 23:08	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 23:08	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 23:08	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 23:08	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 23:08	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 23:08	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 23:08	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 23:08	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 23:08	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 23:08	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 23:08	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 23:08	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 23:08	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 23:08	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 23:08	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 23:08	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 23:08	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 23:08	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 23:08	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 23:08	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 23:08	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 23:08	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 23:08	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 23:08	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 23:08	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 23:08	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 23:08	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 23:08	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 23:08	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 23:08	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 23:08	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 23:08	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 23:08	1
Toluene	2.31		1.00	0.430	ug/L			10/17/24 23:08	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 23:08	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 23:08	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 23:08	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 23:08	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 23:08	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 23:08	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 23:08	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 23:08	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 23:08	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 23:08	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/17/24 23:08	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-10B

Lab Sample ID: 310-292673-16

Date Collected: 10/09/24 13:01

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/17/24 23:08	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 23:08	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 15:52	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:52	1
Barium	0.148		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:52	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 15:52	1
Cadmium	0.000166	J	0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 15:52	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 15:52	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:52	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:52	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:52	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:27	1
Selenium	0.00519		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 15:52	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 15:52	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 17:27	1
Vanadium	0.00169	J	0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 15:52	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 15:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	1.88		1.88	1.39	mg/L			10/15/24 10:15	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-209B

Lab Sample ID: 310-292673-17

Date Collected: 10/09/24 10:01

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.55	J	10.0	3.10	ug/L			10/17/24 23:31	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 23:31	1
Benzene	9.27		0.500	0.220	ug/L			10/17/24 23:31	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 23:31	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 23:31	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 23:31	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 23:31	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 23:31	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 23:31	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 23:31	1
Chlorobenzene	0.750	J	1.00	0.400	ug/L			10/17/24 23:31	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 23:31	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 23:31	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 23:31	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 23:31	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 23:31	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 23:31	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 23:31	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 23:31	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 23:31	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 23:31	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 23:31	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 23:31	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 23:31	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 23:31	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 23:31	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 23:31	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 23:31	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 23:31	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 23:31	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 23:31	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 23:31	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 23:31	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 23:31	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 23:31	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 23:31	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 23:31	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 23:31	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 23:31	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 23:31	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 23:31	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 23:31	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 23:31	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 23:31	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 23:31	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 23:31	1
Xylenes, Total	8.58		3.00	0.400	ug/L			10/17/24 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/17/24 23:31	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-209B

Lab Sample ID: 310-292673-17

Date Collected: 10/09/24 10:01

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		73 - 130		10/17/24 23:31	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 23:31	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0967		0.0967	0.0406	ug/L		10/14/24 09:17	10/15/24 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	101		10 - 136				10/14/24 09:17	10/15/24 15:12	1
Tetrachloro-m-xylene (Surr)	85		10 - 130				10/14/24 09:17	10/15/24 15:12	1

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	1.35		0.274	0.121	ug/L		10/16/24 07:51	10/17/24 21:08	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCAA	82		34 - 142				10/16/24 07:51	10/17/24 21:08	5
DCAA	66		34 - 142				10/16/24 07:51	10/17/24 21:08	5

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 16:01	1
Arsenic	0.0297		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 16:01	1
Barium	0.659		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 16:01	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 16:01	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 16:01	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 16:01	1
Cobalt	0.00192		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 16:01	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 16:01	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 16:01	1
Nickel	0.0552		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:36	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 16:01	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 16:01	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/15/24 09:30	10/30/24 12:49	1
Vanadium	0.00158 J		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 16:01	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 16:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	1.47		1.00	0.231	mg/L			10/15/24 20:38	1
Total Suspended Solids (USGS I-3765-85)	140		30.0	22.2	mg/L			10/15/24 10:15	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-207A

Lab Sample ID: 310-292673-18

Date Collected: 10/09/24 08:52

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 23:53	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 23:53	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 23:53	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 23:53	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 23:53	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 23:53	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 23:53	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 23:53	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 23:53	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 23:53	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 23:53	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 23:53	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 23:53	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 23:53	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 23:53	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 23:53	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 23:53	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 23:53	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 23:53	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 23:53	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 23:53	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 23:53	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 23:53	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 23:53	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 23:53	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 23:53	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 23:53	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 23:53	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 23:53	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 23:53	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 23:53	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 23:53	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 23:53	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 23:53	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 23:53	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 23:53	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 23:53	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 23:53	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 23:53	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 23:53	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 23:53	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 23:53	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 23:53	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 23:53	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 23:53	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 23:53	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 23:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/17/24 23:53	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-207A

Lab Sample ID: 310-292673-18

Date Collected: 10/09/24 08:52

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/17/24 23:53	1
Toluene-d8 (Surr)	97		80 - 120		10/17/24 23:53	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 16:10	1
Arsenic	0.0617		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 16:10	1
Barium	0.423		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 16:10	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 16:10	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 16:10	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 16:10	1
Cobalt	0.000706		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 16:10	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 16:10	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 16:10	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:43	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 16:10	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 16:10	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/15/24 09:30	10/29/24 16:35	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 16:10	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 16:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L			10/15/24 20:42	1
Total Suspended Solids (USGS I-3765-85)	67.0		15.0	11.1	mg/L			10/15/24 10:15	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-11D
Date Collected: 10/09/24 13:23
Date Received: 10/11/24 13:50

Lab Sample ID: 310-292673-19
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00251		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 16:22	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	19.5		3.75	2.78	mg/L			10/15/24 10:15	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-6B

Lab Sample ID: 310-292673-20

Date Collected: 10/09/24 09:19

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/18/24 07:05	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/18/24 07:05	1
Benzene	<0.500		0.500	0.220	ug/L			10/18/24 07:05	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/18/24 07:05	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/18/24 07:05	1
Bromoform	<5.00		5.00	0.780	ug/L			10/18/24 07:05	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/18/24 07:05	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/18/24 07:05	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/18/24 07:05	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/18/24 07:05	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/18/24 07:05	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/18/24 07:05	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/18/24 07:05	1
Chloroform	<3.00		3.00	1.30	ug/L			10/18/24 07:05	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/18/24 07:05	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/18/24 07:05	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/18/24 07:05	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/18/24 07:05	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/18/24 07:05	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/18/24 07:05	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/18/24 07:05	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/18/24 07:05	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/18/24 07:05	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/18/24 07:05	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/18/24 07:05	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/18/24 07:05	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/18/24 07:05	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/18/24 07:05	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/18/24 07:05	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/18/24 07:05	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/18/24 07:05	1
Styrene	<1.00		1.00	0.370	ug/L			10/18/24 07:05	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/18/24 07:05	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/18/24 07:05	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/18/24 07:05	1
Toluene	<1.00		1.00	0.430	ug/L			10/18/24 07:05	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/18/24 07:05	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/18/24 07:05	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/18/24 07:05	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/18/24 07:05	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/18/24 07:05	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/18/24 07:05	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/18/24 07:05	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/18/24 07:05	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/18/24 07:05	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/18/24 07:05	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/18/24 07:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/18/24 07:05	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-6B

Lab Sample ID: 310-292673-20

Date Collected: 10/09/24 09:19

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		10/18/24 07:05	1
Toluene-d8 (Surr)	98		80 - 120		10/18/24 07:05	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 16:24	1
Arsenic	0.0338		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 16:24	1
Barium	0.595		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 16:24	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 16:24	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 16:24	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 16:24	1
Cobalt	0.0110		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 16:24	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 16:24	1
Lead	0.000316	J	0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 16:24	1
Nickel	0.0104		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 16:24	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 16:24	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/15/24 09:30	10/29/24 16:37	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 16:24	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L			10/15/24 20:46	1
Total Suspended Solids (USGS I-3765-85)	46.0		15.0	11.1	mg/L			10/15/24 10:15	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-18A-07

Lab Sample ID: 310-292673-21

Date Collected: 10/09/24 08:20

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	24.6		1.00	0.480	ug/L			10/18/24 07:28	1
Trichloroethene	28.9		1.00	0.430	ug/L			10/18/24 07:28	1
Vinyl chloride	21.5		1.00	0.180	ug/L			10/18/24 07:28	1
Benzene	1.74		0.500	0.220	ug/L			10/18/24 07:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		10/18/24 07:28	1
Toluene-d8 (Surr)	97		80 - 120		10/18/24 07:28	1
4-Bromofluorobenzene (Surr)	100		80 - 120		10/18/24 07:28	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00305		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 16:26	1
Cobalt	0.00281		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L			10/15/24 20:50	1
Total Suspended Solids (USGS I-3765-85)	4.00		1.88	1.39	mg/L			10/15/24 10:15	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-18AR

Lab Sample ID: 310-292673-22

Date Collected: 10/09/24 07:53

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/18/24 07:51	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/18/24 07:51	1
Benzene	<0.500		0.500	0.220	ug/L			10/18/24 07:51	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/18/24 07:51	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/18/24 07:51	1
Bromoform	<5.00		5.00	0.780	ug/L			10/18/24 07:51	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/18/24 07:51	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/18/24 07:51	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/18/24 07:51	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/18/24 07:51	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/18/24 07:51	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/18/24 07:51	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/18/24 07:51	1
Chloroform	<3.00		3.00	1.30	ug/L			10/18/24 07:51	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/18/24 07:51	1
cis-1,2-Dichloroethene	1.36		1.00	0.210	ug/L			10/18/24 07:51	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/18/24 07:51	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/18/24 07:51	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/18/24 07:51	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/18/24 07:51	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/18/24 07:51	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/18/24 07:51	1
1,1-Dichloroethane	0.481 J		1.00	0.220	ug/L			10/18/24 07:51	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/18/24 07:51	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/18/24 07:51	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/18/24 07:51	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/18/24 07:51	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/18/24 07:51	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/18/24 07:51	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/18/24 07:51	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/18/24 07:51	1
Styrene	<1.00		1.00	0.370	ug/L			10/18/24 07:51	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/18/24 07:51	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/18/24 07:51	1
Tetrachloroethene	3.95		1.00	0.480	ug/L			10/18/24 07:51	1
Toluene	<1.00		1.00	0.430	ug/L			10/18/24 07:51	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/18/24 07:51	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/18/24 07:51	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/18/24 07:51	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/18/24 07:51	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/18/24 07:51	1
Trichloroethene	1.10		1.00	0.430	ug/L			10/18/24 07:51	1
Trichlorofluoromethane	2.14 J		4.00	0.380	ug/L			10/18/24 07:51	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/18/24 07:51	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/18/24 07:51	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/18/24 07:51	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/18/24 07:51	1
Dichlorodifluoromethane	5.28		3.00	0.250	ug/L			10/18/24 07:51	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-18AR

Lab Sample ID: 310-292673-22

Date Collected: 10/09/24 07:53

Matrix: Water

Date Received: 10/11/24 13:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/18/24 07:51	1
Dibromofluoromethane (Surr)	102		73 - 130		10/18/24 07:51	1
Toluene-d8 (Surr)	98		80 - 120		10/18/24 07:51	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 16:29	1
Barium	0.773		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 16:29	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 16:29	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 16:29	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 16:29	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L			10/15/24 20:54	1
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			10/15/24 10:15	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: TB-2

Lab Sample ID: 310-292673-23

Date Collected: 10/09/24 00:00

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/18/24 05:11	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/18/24 05:11	1
Benzene	<0.500		0.500	0.220	ug/L			10/18/24 05:11	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/18/24 05:11	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/18/24 05:11	1
Bromoform	<5.00		5.00	0.780	ug/L			10/18/24 05:11	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/18/24 05:11	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/18/24 05:11	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/18/24 05:11	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/18/24 05:11	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/18/24 05:11	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/18/24 05:11	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/18/24 05:11	1
Chloroform	<3.00		3.00	1.30	ug/L			10/18/24 05:11	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/18/24 05:11	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/18/24 05:11	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/18/24 05:11	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/18/24 05:11	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/18/24 05:11	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/18/24 05:11	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/18/24 05:11	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/18/24 05:11	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/18/24 05:11	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/18/24 05:11	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/18/24 05:11	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/18/24 05:11	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/18/24 05:11	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/18/24 05:11	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/18/24 05:11	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/18/24 05:11	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/18/24 05:11	1
Styrene	<1.00		1.00	0.370	ug/L			10/18/24 05:11	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/18/24 05:11	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/18/24 05:11	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/18/24 05:11	1
Toluene	<1.00		1.00	0.430	ug/L			10/18/24 05:11	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/18/24 05:11	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/18/24 05:11	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/18/24 05:11	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/18/24 05:11	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/18/24 05:11	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/18/24 05:11	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/18/24 05:11	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/18/24 05:11	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/18/24 05:11	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/18/24 05:11	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/18/24 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/18/24 05:11	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: TB-2

Date Collected: 10/09/24 00:00

Date Received: 10/11/24 13:50

Lab Sample ID: 310-292673-23

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		10/18/24 05:11	1
Toluene-d8 (Surr)	98		80 - 120		10/18/24 05:11	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: TB-3

Lab Sample ID: 310-292673-24

Date Collected: 10/09/24 00:00

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/18/24 05:34	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/18/24 05:34	1
Benzene	<0.500		0.500	0.220	ug/L			10/18/24 05:34	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/18/24 05:34	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/18/24 05:34	1
Bromoform	<5.00		5.00	0.780	ug/L			10/18/24 05:34	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/18/24 05:34	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/18/24 05:34	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/18/24 05:34	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/18/24 05:34	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/18/24 05:34	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/18/24 05:34	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/18/24 05:34	1
Chloroform	<3.00		3.00	1.30	ug/L			10/18/24 05:34	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/18/24 05:34	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/18/24 05:34	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/18/24 05:34	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/18/24 05:34	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/18/24 05:34	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/18/24 05:34	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/18/24 05:34	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/18/24 05:34	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/18/24 05:34	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/18/24 05:34	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/18/24 05:34	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/18/24 05:34	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/18/24 05:34	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/18/24 05:34	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/18/24 05:34	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/18/24 05:34	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/18/24 05:34	1
Styrene	<1.00		1.00	0.370	ug/L			10/18/24 05:34	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/18/24 05:34	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/18/24 05:34	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/18/24 05:34	1
Toluene	<1.00		1.00	0.430	ug/L			10/18/24 05:34	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/18/24 05:34	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/18/24 05:34	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/18/24 05:34	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/18/24 05:34	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/18/24 05:34	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/18/24 05:34	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/18/24 05:34	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/18/24 05:34	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/18/24 05:34	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/18/24 05:34	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/18/24 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/18/24 05:34	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: TB-3
Date Collected: 10/09/24 00:00
Date Received: 10/11/24 13:50

Lab Sample ID: 310-292673-24
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		10/18/24 05:34	1
Toluene-d8 (Surr)	98		80 - 120		10/18/24 05:34	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: TB-5

Lab Sample ID: 310-292673-25

Date Collected: 10/09/24 00:00

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/18/24 05:57	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/18/24 05:57	1
Benzene	<0.500		0.500	0.220	ug/L			10/18/24 05:57	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/18/24 05:57	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/18/24 05:57	1
Bromoform	<5.00		5.00	0.780	ug/L			10/18/24 05:57	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/18/24 05:57	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/18/24 05:57	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/18/24 05:57	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/18/24 05:57	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/18/24 05:57	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/18/24 05:57	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/18/24 05:57	1
Chloroform	<3.00		3.00	1.30	ug/L			10/18/24 05:57	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/18/24 05:57	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/18/24 05:57	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/18/24 05:57	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/18/24 05:57	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/18/24 05:57	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/18/24 05:57	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/18/24 05:57	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/18/24 05:57	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/18/24 05:57	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/18/24 05:57	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/18/24 05:57	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/18/24 05:57	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/18/24 05:57	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/18/24 05:57	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/18/24 05:57	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/18/24 05:57	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/18/24 05:57	1
Styrene	<1.00		1.00	0.370	ug/L			10/18/24 05:57	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/18/24 05:57	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/18/24 05:57	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/18/24 05:57	1
Toluene	<1.00		1.00	0.430	ug/L			10/18/24 05:57	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/18/24 05:57	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/18/24 05:57	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/18/24 05:57	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/18/24 05:57	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/18/24 05:57	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/18/24 05:57	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/18/24 05:57	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/18/24 05:57	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/18/24 05:57	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/18/24 05:57	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/18/24 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/18/24 05:57	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: TB-5

Date Collected: 10/09/24 00:00

Date Received: 10/11/24 13:50

Lab Sample ID: 310-292673-25

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		10/18/24 05:57	1
Toluene-d8 (Surr)	97		80 - 120		10/18/24 05:57	1

- 1
- 2
- 3
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- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: TB-6

Lab Sample ID: 310-292673-26

Date Collected: 10/09/24 00:00

Matrix: Water

Date Received: 10/11/24 13:50

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/18/24 06:19	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/18/24 06:19	1
Benzene	<0.500		0.500	0.220	ug/L			10/18/24 06:19	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/18/24 06:19	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/18/24 06:19	1
Bromoform	<5.00		5.00	0.780	ug/L			10/18/24 06:19	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/18/24 06:19	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/18/24 06:19	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/18/24 06:19	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/18/24 06:19	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/18/24 06:19	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/18/24 06:19	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/18/24 06:19	1
Chloroform	<3.00		3.00	1.30	ug/L			10/18/24 06:19	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/18/24 06:19	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/18/24 06:19	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/18/24 06:19	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/18/24 06:19	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/18/24 06:19	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/18/24 06:19	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/18/24 06:19	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/18/24 06:19	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/18/24 06:19	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/18/24 06:19	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/18/24 06:19	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/18/24 06:19	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/18/24 06:19	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/18/24 06:19	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/18/24 06:19	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/18/24 06:19	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/18/24 06:19	1
Styrene	<1.00		1.00	0.370	ug/L			10/18/24 06:19	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/18/24 06:19	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/18/24 06:19	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/18/24 06:19	1
Toluene	<1.00		1.00	0.430	ug/L			10/18/24 06:19	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/18/24 06:19	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/18/24 06:19	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/18/24 06:19	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/18/24 06:19	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/18/24 06:19	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/18/24 06:19	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/18/24 06:19	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/18/24 06:19	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/18/24 06:19	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/18/24 06:19	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/18/24 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/18/24 06:19	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: TB-6

Date Collected: 10/09/24 00:00

Date Received: 10/11/24 13:50

Lab Sample ID: 310-292673-26

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/18/24 06:19	1
Toluene-d8 (Surr)	98		80 - 120		10/18/24 06:19	1

Definitions/Glossary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (80-120)	DBFM (73-130)	TOL (80-120)
310-292673-2	MW-1B	100	101	98
310-292673-3	MW-206A	100	102	98
310-292673-4	MW-212A	99	102	98
310-292673-5	MW-310A	98	101	98
310-292673-6	MW-306A	101	101	98
310-292673-7	MW-211B	100	102	97
310-292673-8	MW-16A	99	101	98
310-292673-9	MW-200A	100	100	98
310-292673-10	MW-29A	100	101	98
310-292673-10 MS	MW-29A	99	101	100
310-292673-10 MSD	MW-29A	98	101	99
310-292673-11	MW-11B	100	102	98
310-292673-12	MW-408	100	101	97
310-292673-13	MW-312A	102	103	98
310-292673-15	MW-201A	99	101	98
310-292673-16	MW-10B	99	101	98
310-292673-17	MW-209B	99	100	98
310-292673-18	MW-207A	99	101	97
310-292673-20	MW-6B	99	102	98
310-292673-21	MW-18A-07	100	102	97
310-292673-22	MW-18AR	99	102	98
310-292673-23	TB-2	99	102	98
310-292673-24	TB-3	100	102	98
310-292673-25	TB-5	100	102	97
310-292673-26	TB-6	100	101	98
LCS 310-436465/6	Lab Control Sample	98	100	99
LCS 310-436465/7	Lab Control Sample	100	102	98
LCS 310-436588/6	Lab Control Sample	98	101	100
LCS 310-436588/7	Lab Control Sample	100	102	98
LCS 310-436593/6	Lab Control Sample	98	101	100
LCS 310-436593/7	Lab Control Sample	100	102	98
MB 310-436465/5	Method Blank	99	101	98
MB 310-436588/5	Method Blank	99	102	98
MB 310-436593/5	Method Blank	99	102	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (10-136)	TCX1 (10-130)
310-292673-17	MW-209B	101	85
LB 310-435869/1-D	Method Blank	98	75
LCS 310-436103/21-A	Lab Control Sample	105	71
MB 310-436103/1-A	Method Blank	122	79

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Surrogate Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPAA1 (34-142)	DCPAA2 (34-142)
310-292673-17	MW-209B	82	66
LCS 410-563718/2-A	Lab Control Sample	74	
MB 410-563718/1-A	Method Blank	77	

Surrogate Legend

DCPAA = DCAA

QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-436465/5

Matrix: Water

Analysis Batch: 436465

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 06:03	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 06:03	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 06:03	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 06:03	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 06:03	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 06:03	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 06:03	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 06:03	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 06:03	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 06:03	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 06:03	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 06:03	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 06:03	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 06:03	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 06:03	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 06:03	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 06:03	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 06:03	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 06:03	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 06:03	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 06:03	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 06:03	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 06:03	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 06:03	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 06:03	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 06:03	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 06:03	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 06:03	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 06:03	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 06:03	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 06:03	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 06:03	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 06:03	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 06:03	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 06:03	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 06:03	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 06:03	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 06:03	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 06:03	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 06:03	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 06:03	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 06:03	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 06:03	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 06:03	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 06:03	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 06:03	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 06:03	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			10/17/24 06:03	1

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-436465/5

Matrix: Water

Analysis Batch: 436465

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/17/24 06:03	1
Dibromofluoromethane (Surr)	101		73 - 130		10/17/24 06:03	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 06:03	1

Lab Sample ID: LCS 310-436465/6

Matrix: Water

Analysis Batch: 436465

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	38.55		ug/L		96	50 - 150
Acrylonitrile	200	193.7		ug/L		97	50 - 150
Bromochloromethane	20.0	20.16		ug/L		101	73 - 130
Bromodichloromethane	20.0	19.39		ug/L		97	74 - 122
Benzene	20.0	18.93		ug/L		95	72 - 124
Bromoform	20.0	19.61		ug/L		98	61 - 122
2-Butanone (MEK)	40.0	38.04		ug/L		95	50 - 150
Carbon disulfide	20.0	17.39		ug/L		87	59 - 135
Carbon tetrachloride	20.0	19.12		ug/L		96	67 - 132
Chlorobenzene	20.0	19.65		ug/L		98	76 - 120
Chlorodibromomethane	20.0	19.79		ug/L		99	71 - 121
Chloroform	20.0	18.50		ug/L		93	72 - 125
cis-1,2-Dichloroethene	20.0	19.21		ug/L		96	74 - 123
cis-1,3-Dichloropropene	20.0	18.80		ug/L		94	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.21		ug/L		96	50 - 150
1,2-Dibromoethane (EDB)	20.0	20.61		ug/L		103	75 - 125
Dibromomethane	20.0	20.03		ug/L		100	74 - 125
1,2-Dichlorobenzene	20.0	19.93		ug/L		100	74 - 120
1,4-Dichlorobenzene	20.0	19.67		ug/L		98	72 - 120
1,1-Dichloroethane	20.0	18.62		ug/L		93	70 - 127
1,2-Dichloroethane	20.0	19.65		ug/L		98	71 - 125
1,1-Dichloroethene	20.0	18.12		ug/L		91	63 - 132
1,2-Dichloropropane	20.0	18.77		ug/L		94	73 - 124
Ethylbenzene	20.0	19.72		ug/L		99	74 - 122
2-Hexanone	40.0	39.50		ug/L		99	60 - 140
Iodomethane	20.0	10.79		ug/L		54	10 - 150
Methylene Chloride	20.0	19.11		ug/L		96	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	39.43		ug/L		99	60 - 139
Styrene	20.0	20.53		ug/L		103	74 - 121
1,1,1,2-Tetrachloroethane	20.0	19.77		ug/L		99	71 - 120
1,1,2,2-Tetrachloroethane	20.0	20.20		ug/L		101	68 - 124
Tetrachloroethene	20.0	19.81		ug/L		99	71 - 130
Toluene	20.0	19.05		ug/L		95	74 - 123
trans-1,4-Dichloro-2-butene	20.0	17.80		ug/L		89	50 - 150
trans-1,2-Dichloroethene	20.0	18.72		ug/L		94	70 - 126
trans-1,3-Dichloropropene	20.0	18.92		ug/L		95	69 - 123
1,1,1-Trichloroethane	20.0	19.15		ug/L		96	73 - 129
1,1,2-Trichloroethane	20.0	20.13		ug/L		101	73 - 123
Trichloroethene	20.0	19.58		ug/L		98	72 - 126

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-436465/6

Matrix: Water

Analysis Batch: 436465

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	20.10		ug/L		100	65 - 127
Vinyl acetate	40.0	36.91		ug/L		92	50 - 150
Xylenes, Total	40.0	39.50		ug/L		99	73 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	100		73 - 130
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: LCS 310-436465/7

Matrix: Water

Analysis Batch: 436465

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	13.83		ug/L		69	23 - 150
Chloroethane	20.0	17.25		ug/L		86	54 - 136
Chloromethane	20.0	16.86		ug/L		84	38 - 150
Trichlorofluoromethane	20.0	19.59		ug/L		98	54 - 149
Vinyl chloride	20.0	17.61		ug/L		88	56 - 140
Dichlorodifluoromethane	20.0	18.01		ug/L		90	39 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	102		73 - 130
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 310-436588/5

Matrix: Water

Analysis Batch: 436588

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/17/24 17:03	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/17/24 17:03	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/17/24 17:03	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/17/24 17:03	1
Benzene	<0.500		0.500	0.220	ug/L			10/17/24 17:03	1
Bromoform	<5.00		5.00	0.780	ug/L			10/17/24 17:03	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/17/24 17:03	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/17/24 17:03	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/17/24 17:03	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/17/24 17:03	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/17/24 17:03	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/17/24 17:03	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/17/24 17:03	1
Chloroform	<3.00		3.00	1.30	ug/L			10/17/24 17:03	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/17/24 17:03	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/17/24 17:03	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/17/24 17:03	1

Eurofins Cedar Falls

QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-436588/5

Matrix: Water

Analysis Batch: 436588

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/17/24 17:03	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/17/24 17:03	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/17/24 17:03	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/17/24 17:03	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/17/24 17:03	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/17/24 17:03	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/17/24 17:03	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/17/24 17:03	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/17/24 17:03	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/17/24 17:03	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/17/24 17:03	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/17/24 17:03	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/17/24 17:03	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/17/24 17:03	1
Styrene	<1.00		1.00	0.370	ug/L			10/17/24 17:03	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/17/24 17:03	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/17/24 17:03	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/17/24 17:03	1
Toluene	<1.00		1.00	0.430	ug/L			10/17/24 17:03	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/17/24 17:03	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/17/24 17:03	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/17/24 17:03	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/17/24 17:03	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/17/24 17:03	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/17/24 17:03	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/17/24 17:03	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/17/24 17:03	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/17/24 17:03	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/17/24 17:03	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/17/24 17:03	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			10/17/24 17:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/17/24 17:03	1
Dibromofluoromethane (Surr)	102		73 - 130		10/17/24 17:03	1
Toluene-d8 (Surr)	98		80 - 120		10/17/24 17:03	1

Lab Sample ID: LCS 310-436588/6

Matrix: Water

Analysis Batch: 436588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	37.92		ug/L		95	50 - 150
Acrylonitrile	200	190.0		ug/L		95	50 - 150
Bromochloromethane	20.0	20.77		ug/L		104	73 - 130
Bromodichloromethane	20.0	20.09		ug/L		100	74 - 122
Benzene	20.0	20.42		ug/L		102	72 - 124
Bromoform	20.0	19.04		ug/L		95	61 - 122

Eurofins Cedar Falls

QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-436588/6

Matrix: Water

Analysis Batch: 436588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	40.0	37.27		ug/L		93	50 - 150
Carbon disulfide	20.0	19.51		ug/L		98	59 - 135
Carbon tetrachloride	20.0	21.08		ug/L		105	67 - 132
Chlorobenzene	20.0	20.74		ug/L		104	76 - 120
Chlorodibromomethane	20.0	19.76		ug/L		99	71 - 121
Chloroform	20.0	19.37		ug/L		97	72 - 125
cis-1,2-Dichloroethene	20.0	20.20		ug/L		101	74 - 123
cis-1,3-Dichloropropene	20.0	19.81		ug/L		99	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	18.61		ug/L		93	50 - 150
1,2-Dibromoethane (EDB)	20.0	20.41		ug/L		102	75 - 125
Dibromomethane	20.0	20.18		ug/L		101	74 - 125
1,2-Dichlorobenzene	20.0	20.22		ug/L		101	74 - 120
1,4-Dichlorobenzene	20.0	20.43		ug/L		102	72 - 120
1,1-Dichloroethane	20.0	19.81		ug/L		99	70 - 127
1,2-Dichloroethane	20.0	19.89		ug/L		99	71 - 125
1,1-Dichloroethene	20.0	20.13		ug/L		101	63 - 132
1,2-Dichloropropane	20.0	19.49		ug/L		97	73 - 124
Ethylbenzene	20.0	21.22		ug/L		106	74 - 122
2-Hexanone	40.0	38.16		ug/L		95	60 - 140
Iodomethane	20.0	13.64		ug/L		68	10 - 150
Methylene Chloride	20.0	19.75		ug/L		99	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	38.68		ug/L		97	60 - 139
Styrene	20.0	21.49		ug/L		107	74 - 121
1,1,1,2-Tetrachloroethane	20.0	20.44		ug/L		102	71 - 120
1,1,2,2-Tetrachloroethane	20.0	19.77		ug/L		99	68 - 124
Tetrachloroethene	20.0	21.79		ug/L		109	71 - 130
Toluene	20.0	20.50		ug/L		102	74 - 123
trans-1,4-Dichloro-2-butene	20.0	17.59		ug/L		88	50 - 150
trans-1,2-Dichloroethene	20.0	20.44		ug/L		102	70 - 126
trans-1,3-Dichloropropene	20.0	19.60		ug/L		98	69 - 123
1,1,1-Trichloroethane	20.0	20.72		ug/L		104	73 - 129
1,1,2-Trichloroethane	20.0	20.32		ug/L		102	73 - 123
Trichloroethene	20.0	20.85		ug/L		104	72 - 126
1,2,3-Trichloropropane	20.0	19.47		ug/L		97	65 - 127
Vinyl acetate	40.0	38.88		ug/L		97	50 - 150
Xylenes, Total	40.0	42.22		ug/L		106	73 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	101		73 - 130
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCS 310-436588/7

Matrix: Water

Analysis Batch: 436588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	15.43		ug/L		77	23 - 150

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-436588/7

Matrix: Water

Analysis Batch: 436588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	20.0	18.24		ug/L		91	54 - 136
Chloromethane	20.0	17.99		ug/L		90	38 - 150
Trichlorofluoromethane	20.0	22.02		ug/L		110	54 - 149
Vinyl chloride	20.0	19.07		ug/L		95	56 - 140
Dichlorodifluoromethane	20.0	20.35		ug/L		102	39 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	102		73 - 130
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 310-292673-10 MS

Matrix: Water

Analysis Batch: 436588

Client Sample ID: MW-29A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<10.0		40.0	30.30		ug/L		76	31 - 150
Acrylonitrile	<5.00		200	157.1		ug/L		79	40 - 150
Bromochloromethane	<5.00		20.0	16.86		ug/L		84	57 - 130
Bromodichloromethane	<1.00		20.0	15.79		ug/L		79	57 - 130
Benzene	<0.500		20.0	16.22		ug/L		81	46 - 130
Bromoform	<5.00		20.0	15.27		ug/L		76	44 - 130
2-Butanone (MEK)	<10.0		40.0	28.62		ug/L		72	38 - 150
Carbon disulfide	<1.00		20.0	15.84		ug/L		79	38 - 135
Carbon tetrachloride	<2.00		20.0	15.15		ug/L		76	45 - 132
Chlorobenzene	<1.00		20.0	16.23		ug/L		81	59 - 130
Chlorodibromomethane	<5.00		20.0	15.73		ug/L		79	54 - 130
Chloroform	<3.00		20.0	15.47		ug/L		77	51 - 130
cis-1,2-Dichloroethene	<1.00		20.0	16.16		ug/L		81	45 - 130
cis-1,3-Dichloropropene	<5.00		20.0	15.40		ug/L		77	53 - 130
1,2-Dibromo-3-Chloropropane	<1.20		20.0	15.04		ug/L		75	38 - 150
1,2-Dibromoethane (EDB)	<0.340		20.0	16.30		ug/L		81	60 - 130
Dibromomethane	<1.00		20.0	16.13		ug/L		81	59 - 130
1,2-Dichlorobenzene	<1.00		20.0	16.17		ug/L		81	59 - 130
1,4-Dichlorobenzene	<1.00		20.0	16.15		ug/L		81	57 - 130
1,1-Dichloroethane	<1.00		20.0	15.61		ug/L		78	49 - 130
1,2-Dichloroethane	<1.00		20.0	16.20		ug/L		81	51 - 130
1,1-Dichloroethene	<2.00		20.0	15.45		ug/L		77	37 - 132
1,2-Dichloropropane	<1.00		20.0	15.39		ug/L		77	57 - 130
Ethylbenzene	<1.00		20.0	16.15		ug/L		81	45 - 130
2-Hexanone	<10.0		40.0	30.48		ug/L		76	46 - 140
Iodomethane	<10.0		20.0	10.34		ug/L		52	10 - 150
Methylene Chloride	<5.00		20.0	15.77		ug/L		79	37 - 150
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	31.07		ug/L		78	47 - 139
Styrene	<1.00		20.0	16.72		ug/L		84	47 - 130
1,1,1,2-Tetrachloroethane	<1.00		20.0	15.94		ug/L		80	55 - 130
1,1,2,2-Tetrachloroethane	<1.00		20.0	15.94		ug/L		80	54 - 130
Tetrachloroethene	<1.00		20.0	15.96		ug/L		80	47 - 130

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-292673-10 MS

Matrix: Water

Analysis Batch: 436588

Client Sample ID: MW-29A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<1.00		20.0	15.96		ug/L		80	51 - 130
trans-1,4-Dichloro-2-butene	<10.0		20.0	15.48		ug/L		77	26 - 150
trans-1,2-Dichloroethene	<1.00		20.0	16.08		ug/L		80	48 - 130
trans-1,3-Dichloropropene	<5.00		20.0	15.15		ug/L		76	50 - 130
1,1,1-Trichloroethane	<1.00		20.0	15.53		ug/L		78	52 - 130
1,1,2-Trichloroethane	<1.00		20.0	16.15		ug/L		81	58 - 130
Trichloroethene	<1.00		20.0	16.38		ug/L		82	51 - 130
1,2,3-Trichloropropane	<1.00		20.0	15.81		ug/L		79	49 - 130
Vinyl acetate	<10.0		40.0	29.10		ug/L		73	29 - 150
Xylenes, Total	<3.00		40.0	32.48		ug/L		81	43 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	101		73 - 130
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 310-292673-10 MSD

Matrix: Water

Analysis Batch: 436588

Client Sample ID: MW-29A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<10.0		40.0	30.57		ug/L		76	31 - 150	1	29
Acrylonitrile	<5.00		200	156.6		ug/L		78	40 - 150	0	20
Bromochloromethane	<5.00		20.0	16.75		ug/L		84	57 - 130	1	20
Bromodichloromethane	<1.00		20.0	15.73		ug/L		79	57 - 130	0	20
Benzene	<0.500		20.0	15.60		ug/L		78	46 - 130	4	20
Bromoform	<5.00		20.0	15.17		ug/L		76	44 - 130	1	20
2-Butanone (MEK)	<10.0		40.0	29.50		ug/L		74	38 - 150	3	20
Carbon disulfide	<1.00		20.0	14.75		ug/L		74	38 - 135	7	30
Carbon tetrachloride	<2.00		20.0	14.89		ug/L		74	45 - 132	2	20
Chlorobenzene	<1.00		20.0	16.00		ug/L		80	59 - 130	1	20
Chlorodibromomethane	<5.00		20.0	15.62		ug/L		78	54 - 130	1	20
Chloroform	<3.00		20.0	15.21		ug/L		76	51 - 130	2	20
cis-1,2-Dichloroethene	<1.00		20.0	15.90		ug/L		79	45 - 130	2	20
cis-1,3-Dichloropropene	<5.00		20.0	15.15		ug/L		76	53 - 130	2	20
1,2-Dibromo-3-Chloropropane	<1.20		20.0	15.23		ug/L		76	38 - 150	1	20
1,2-Dibromoethane (EDB)	<0.340		20.0	16.13		ug/L		81	60 - 130	1	20
Dibromomethane	<1.00		20.0	16.03		ug/L		80	59 - 130	1	20
1,2-Dichlorobenzene	<1.00		20.0	16.47		ug/L		82	59 - 130	2	20
1,4-Dichlorobenzene	<1.00		20.0	16.15		ug/L		81	57 - 130	0	20
1,1-Dichloroethane	<1.00		20.0	15.38		ug/L		77	49 - 130	1	20
1,2-Dichloroethane	<1.00		20.0	15.92		ug/L		80	51 - 130	2	20
1,1-Dichloroethene	<2.00		20.0	14.98		ug/L		75	37 - 132	3	26
1,2-Dichloropropane	<1.00		20.0	15.27		ug/L		76	57 - 130	1	20
Ethylbenzene	<1.00		20.0	15.94		ug/L		80	45 - 130	1	20
2-Hexanone	<10.0		40.0	30.03		ug/L		75	46 - 140	1	20
Iodomethane	<10.0		20.0	11.27		ug/L		56	10 - 150	9	35
Methylene Chloride	<5.00		20.0	15.79		ug/L		79	37 - 150	0	24

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-292673-10 MSD

Matrix: Water

Analysis Batch: 436588

Client Sample ID: MW-29A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	31.08		ug/L		78	47 - 139	0	20
Styrene	<1.00		20.0	16.58		ug/L		83	47 - 130	1	20
1,1,1,2-Tetrachloroethane	<1.00		20.0	15.70		ug/L		78	55 - 130	2	20
1,1,2,2-Tetrachloroethane	<1.00		20.0	16.04		ug/L		80	54 - 130	1	20
Tetrachloroethene	<1.00		20.0	15.74		ug/L		79	47 - 130	1	20
Toluene	<1.00		20.0	15.46		ug/L		77	51 - 130	3	20
trans-1,4-Dichloro-2-butene	<10.0		20.0	15.02		ug/L		75	26 - 150	3	23
trans-1,2-Dichloroethene	<1.00		20.0	15.48		ug/L		77	48 - 130	4	22
trans-1,3-Dichloropropene	<5.00		20.0	15.05		ug/L		75	50 - 130	1	20
1,1,1-Trichloroethane	<1.00		20.0	15.14		ug/L		76	52 - 130	3	20
1,1,2-Trichloroethane	<1.00		20.0	16.03		ug/L		80	58 - 130	1	20
Trichloroethene	<1.00		20.0	16.17		ug/L		81	51 - 130	1	20
1,2,3-Trichloropropane	<1.00		20.0	15.64		ug/L		78	49 - 130	1	26
Vinyl acetate	<10.0		40.0	28.98		ug/L		72	29 - 150	0	23
Xylenes, Total	<3.00		40.0	32.03		ug/L		80	43 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	101		73 - 130
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 310-436593/5

Matrix: Water

Analysis Batch: 436593

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/18/24 04:03	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/18/24 04:03	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/18/24 04:03	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/18/24 04:03	1
Benzene	<0.500		0.500	0.220	ug/L			10/18/24 04:03	1
Bromoform	<5.00		5.00	0.780	ug/L			10/18/24 04:03	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/18/24 04:03	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/18/24 04:03	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/18/24 04:03	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/18/24 04:03	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/18/24 04:03	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/18/24 04:03	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/18/24 04:03	1
Chloroform	<3.00		3.00	1.30	ug/L			10/18/24 04:03	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/18/24 04:03	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/18/24 04:03	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/18/24 04:03	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/18/24 04:03	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/18/24 04:03	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/18/24 04:03	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/18/24 04:03	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/18/24 04:03	1

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-436593/5

Matrix: Water

Analysis Batch: 436593

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/18/24 04:03	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/18/24 04:03	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/18/24 04:03	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/18/24 04:03	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/18/24 04:03	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/18/24 04:03	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/18/24 04:03	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/18/24 04:03	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/18/24 04:03	1
Styrene	<1.00		1.00	0.370	ug/L			10/18/24 04:03	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/18/24 04:03	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/18/24 04:03	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/18/24 04:03	1
Toluene	<1.00		1.00	0.430	ug/L			10/18/24 04:03	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/18/24 04:03	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/18/24 04:03	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/18/24 04:03	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/18/24 04:03	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/18/24 04:03	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/18/24 04:03	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/18/24 04:03	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/18/24 04:03	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/18/24 04:03	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/18/24 04:03	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/18/24 04:03	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			10/18/24 04:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/18/24 04:03	1
Dibromofluoromethane (Surr)	102		73 - 130		10/18/24 04:03	1
Toluene-d8 (Surr)	97		80 - 120		10/18/24 04:03	1

Lab Sample ID: LCS 310-436593/6

Matrix: Water

Analysis Batch: 436593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	37.68		ug/L		94	50 - 150
Acrylonitrile	200	192.7		ug/L		96	50 - 150
Bromochloromethane	20.0	20.56		ug/L		103	73 - 130
Bromodichloromethane	20.0	19.99		ug/L		100	74 - 122
Benzene	20.0	19.91		ug/L		100	72 - 124
Bromoform	20.0	19.63		ug/L		98	61 - 122
2-Butanone (MEK)	40.0	37.28		ug/L		93	50 - 150
Carbon disulfide	20.0	18.76		ug/L		94	59 - 135
Carbon tetrachloride	20.0	20.57		ug/L		103	67 - 132
Chlorobenzene	20.0	20.33		ug/L		102	76 - 120
Chlorodibromomethane	20.0	20.19		ug/L		101	71 - 121

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-436593/6

Matrix: Water

Analysis Batch: 436593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	20.0	19.08		ug/L		95	72 - 125
cis-1,2-Dichloroethene	20.0	19.98		ug/L		100	74 - 123
cis-1,3-Dichloropropene	20.0	19.53		ug/L		98	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.13		ug/L		96	50 - 150
1,2-Dibromoethane (EDB)	20.0	20.43		ug/L		102	75 - 125
Dibromomethane	20.0	19.79		ug/L		99	74 - 125
1,2-Dichlorobenzene	20.0	20.35		ug/L		102	74 - 120
1,4-Dichlorobenzene	20.0	20.13		ug/L		101	72 - 120
1,1-Dichloroethane	20.0	19.59		ug/L		98	70 - 127
1,2-Dichloroethane	20.0	19.69		ug/L		98	71 - 125
1,1-Dichloroethene	20.0	19.53		ug/L		98	63 - 132
1,2-Dichloropropane	20.0	19.33		ug/L		97	73 - 124
Ethylbenzene	20.0	20.77		ug/L		104	74 - 122
2-Hexanone	40.0	38.72		ug/L		97	60 - 140
Iodomethane	20.0	11.59		ug/L		58	10 - 150
Methylene Chloride	20.0	19.44		ug/L		97	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	39.34		ug/L		98	60 - 139
Styrene	20.0	21.04		ug/L		105	74 - 121
1,1,1,2-Tetrachloroethane	20.0	20.11		ug/L		101	71 - 120
1,1,2,2-Tetrachloroethane	20.0	19.99		ug/L		100	68 - 124
Tetrachloroethene	20.0	21.12		ug/L		106	71 - 130
Toluene	20.0	20.08		ug/L		100	74 - 123
trans-1,4-Dichloro-2-butene	20.0	17.85		ug/L		89	50 - 150
trans-1,2-Dichloroethene	20.0	19.95		ug/L		100	70 - 126
trans-1,3-Dichloropropene	20.0	19.14		ug/L		96	69 - 123
1,1,1-Trichloroethane	20.0	20.16		ug/L		101	73 - 129
1,1,2-Trichloroethane	20.0	20.16		ug/L		101	73 - 123
Trichloroethene	20.0	20.59		ug/L		103	72 - 126
1,2,3-Trichloropropane	20.0	19.93		ug/L		100	65 - 127
Vinyl acetate	40.0	36.67		ug/L		92	50 - 150
Xylenes, Total	40.0	41.14		ug/L		103	73 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	101		73 - 130
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCS 310-436593/7

Matrix: Water

Analysis Batch: 436593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	15.14		ug/L		76	23 - 150
Chloroethane	20.0	18.77		ug/L		94	54 - 136
Chloromethane	20.0	18.93		ug/L		95	38 - 150
Trichlorofluoromethane	20.0	21.63		ug/L		108	54 - 149
Vinyl chloride	20.0	19.63		ug/L		98	56 - 140
Dichlorodifluoromethane	20.0	19.97		ug/L		100	39 - 150

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-436593/7

Matrix: Water

Analysis Batch: 436593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	102		73 - 130
Toluene-d8 (Surr)	98		80 - 120

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: LB 310-435869/1-D

Matrix: Water

Analysis Batch: 436243

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436103

	LB	LB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0962		0.0962	0.0404	ug/L		10/14/24 09:17	10/15/24 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	98		10 - 136				10/14/24 09:17	10/15/24 15:59	1
Tetrachloro-m-xylene (Surr)	75		10 - 130				10/14/24 09:17	10/15/24 15:59	1

Lab Sample ID: MB 310-436103/1-A

Matrix: Water

Analysis Batch: 436114

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436103

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0978		0.0978	0.0411	ug/L		10/14/24 09:17	10/14/24 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	122		10 - 136				10/14/24 09:17	10/14/24 20:49	1
Tetrachloro-m-xylene (Surr)	79		10 - 130				10/14/24 09:17	10/14/24 20:49	1

Lab Sample ID: LCS 310-436103/21-A

Matrix: Water

Analysis Batch: 436114

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436103

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
beta-BHC		2.79	2.663		ug/L		95	37 - 136	
Surrogate	%Recovery	Qualifier	Limits						
DCB Decachlorobiphenyl (Surr)	105		10 - 136						
Tetrachloro-m-xylene (Surr)	71		10 - 130						

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-563718/1-A

Matrix: Water

Analysis Batch: 564218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 563718

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	<0.0500		0.0500	0.0220	ug/L		10/16/24 07:51	10/17/24 14:00	1

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 410-563718/1-A

Matrix: Water

Analysis Batch: 564218

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 563718

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	77		34 - 142	10/16/24 07:51	10/17/24 14:00	1

Lab Sample ID: LCS 410-563718/2-A

Matrix: Water

Analysis Batch: 564218

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 563718

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silvex (2,4,5-TP)	0.250	0.2546		ug/L		102	62 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCAA	74		34 - 142

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-436196/1-A

Matrix: Water

Analysis Batch: 436544

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 14:27	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 14:27	1
Barium	<0.00200		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 14:27	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 14:27	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 14:27	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 14:27	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 14:27	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 14:27	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 14:27	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 14:27	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 14:27	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 14:27	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 14:27	1

Lab Sample ID: MB 310-436196/1-A

Matrix: Water

Analysis Batch: 437173

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.00500		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 16:25	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 16:25	1

Lab Sample ID: LCS 310-436196/2-A

Matrix: Water

Analysis Batch: 436544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2112		mg/L		106	80 - 120
Arsenic	0.200	0.2060		mg/L		103	80 - 120
Barium	0.100	0.1007		mg/L		101	80 - 120

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-436196/2-A

Matrix: Water

Analysis Batch: 436544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Beryllium	0.100	0.09925		mg/L		99	80 - 120	
Cadmium	0.100	0.09897		mg/L		99	80 - 120	
Chromium	0.100	0.1041		mg/L		104	80 - 120	
Copper	0.200	0.2014		mg/L		101	80 - 120	
Lead	0.200	0.2180		mg/L		109	80 - 120	
Selenium	0.400	0.3877		mg/L		97	80 - 120	
Silver	0.100	0.1072		mg/L		107	80 - 120	
Vanadium	0.100	0.1054		mg/L		105	80 - 120	
Zinc	0.200	0.1926		mg/L		96	80 - 120	
Cobalt	0.100	0.1003		mg/L		100	80 - 120	

Lab Sample ID: LCS 310-436196/2-A

Matrix: Water

Analysis Batch: 437173

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Nickel	0.200	0.2016		mg/L		101	80 - 120	
Thallium	0.100	0.08042		mg/L		80	80 - 120	

Lab Sample ID: 310-292673-8 DU

Matrix: Water

Analysis Batch: 436544

Client Sample ID: MW-16A

Prep Type: Total/NA

Prep Batch: 436196

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.00200		<0.00200		mg/L		NC	20
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Barium	0.556		0.5640		mg/L		1	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Cadmium	<0.000200		<0.000200		mg/L		NC	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Copper	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Silver	<0.00100		<0.00100		mg/L		NC	20
Vanadium	<0.00500		<0.00500		mg/L		NC	20
Zinc	<0.0200		<0.0200		mg/L		NC	20
Cobalt	0.00184		0.001852		mg/L		0.9	20

Lab Sample ID: 310-292673-8 DU

Matrix: Water

Analysis Batch: 437173

Client Sample ID: MW-16A

Prep Type: Total/NA

Prep Batch: 436196

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Nickel	0.00402	J	0.004024	J	mg/L		0	20
Thallium	0.000755	J	0.0006380	J	mg/L		17	20

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-436197/1-A

Matrix: Water

Analysis Batch: 436544

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/15/24 09:30	10/16/24 15:56	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/15/24 09:30	10/16/24 15:56	1
Barium	<0.00200		0.00200	0.000660	mg/L		10/15/24 09:30	10/16/24 15:56	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/15/24 09:30	10/16/24 15:56	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/15/24 09:30	10/16/24 15:56	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/15/24 09:30	10/16/24 15:56	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/15/24 09:30	10/16/24 15:56	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/15/24 09:30	10/16/24 15:56	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/15/24 09:30	10/16/24 15:56	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/15/24 09:30	10/16/24 15:56	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/15/24 09:30	10/16/24 15:56	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/15/24 09:30	10/16/24 15:56	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/15/24 09:30	10/16/24 15:56	1

Lab Sample ID: MB 310-436197/1-A

Matrix: Water

Analysis Batch: 437173

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.00500		0.00500	0.00210	mg/L		10/15/24 09:30	10/22/24 17:32	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/15/24 09:30	10/22/24 17:32	1

Lab Sample ID: MB 310-436197/1-A

Matrix: Water

Analysis Batch: 438020

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436197

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00100		0.00100	0.000570	mg/L		10/15/24 09:30	10/29/24 16:07	1

Lab Sample ID: LCS 310-436197/2-A

Matrix: Water

Analysis Batch: 436544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2086		mg/L		104	80 - 120
Arsenic	0.200	0.2034		mg/L		102	80 - 120
Barium	0.100	0.09873		mg/L		99	80 - 120
Beryllium	0.100	0.09775		mg/L		98	80 - 120
Cadmium	0.100	0.09799		mg/L		98	80 - 120
Chromium	0.100	0.1030		mg/L		103	80 - 120
Copper	0.200	0.2012		mg/L		101	80 - 120
Lead	0.200	0.2092		mg/L		105	80 - 120
Selenium	0.400	0.3845		mg/L		96	80 - 120
Silver	0.100	0.1076		mg/L		108	80 - 120
Vanadium	0.100	0.1035		mg/L		104	80 - 120
Zinc	0.200	0.1913		mg/L		96	80 - 120
Cobalt	0.100	0.1000		mg/L		100	80 - 120

Eurofins Cedar Falls

QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-436197/2-A
Matrix: Water
Analysis Batch: 437173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 436197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.200	0.1941		mg/L		97	80 - 120

Lab Sample ID: LCS 310-436197/2-A
Matrix: Water
Analysis Batch: 438020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 436197

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.08558		mg/L		86	80 - 120

Lab Sample ID: 310-292673-17 MS
Matrix: Water
Analysis Batch: 436544

Client Sample ID: MW-209B
Prep Type: Total/NA
Prep Batch: 436197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00200		0.200	0.2275		mg/L		114	75 - 125
Arsenic	0.0297		0.200	0.2545		mg/L		112	75 - 125
Barium	0.659		0.100	0.7899	4	mg/L		131	75 - 125
Beryllium	<0.00100		0.100	0.1059		mg/L		106	75 - 125
Cadmium	<0.000200		0.100	0.1038		mg/L		104	75 - 125
Chromium	<0.00500		0.100	0.1039		mg/L		104	75 - 125
Copper	<0.00500		0.200	0.2082		mg/L		104	75 - 125
Lead	<0.000500		0.200	0.2030		mg/L		102	75 - 125
Selenium	<0.00500		0.400	0.4174		mg/L		104	75 - 125
Silver	<0.00100		0.100	0.1082		mg/L		108	75 - 125
Vanadium	0.00158	J	0.100	0.1065		mg/L		105	75 - 125
Zinc	<0.0200		0.200	0.2006		mg/L		100	75 - 125
Cobalt	0.00192		0.100	0.1056		mg/L		104	75 - 125

Lab Sample ID: 310-292673-17 MS
Matrix: Water
Analysis Batch: 437173

Client Sample ID: MW-209B
Prep Type: Total/NA
Prep Batch: 436197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.0552		0.200	0.2438		mg/L		94	75 - 125

Lab Sample ID: 310-292673-17 MS
Matrix: Water
Analysis Batch: 438121

Client Sample ID: MW-209B
Prep Type: Total/NA
Prep Batch: 436197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	<0.00100		0.100	0.1122		mg/L		112	75 - 125

Lab Sample ID: 310-292673-17 MSD
Matrix: Water
Analysis Batch: 436544

Client Sample ID: MW-209B
Prep Type: Total/NA
Prep Batch: 436197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00200		0.200	0.2280		mg/L		114	75 - 125	0	20
Arsenic	0.0297		0.200	0.2560		mg/L		113	75 - 125	1	20
Barium	0.659		0.100	0.8157	4	mg/L		157	75 - 125	3	20

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-292673-17 MSD

Matrix: Water

Analysis Batch: 436544

Client Sample ID: MW-209B

Prep Type: Total/NA

Prep Batch: 436197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.00100		0.100	0.1073		mg/L		107	75 - 125	1	20
Cadmium	<0.000200		0.100	0.1049		mg/L		105	75 - 125	1	20
Chromium	<0.00500		0.100	0.1054		mg/L		105	75 - 125	1	20
Copper	<0.00500		0.200	0.2068		mg/L		103	75 - 125	1	20
Lead	<0.000500		0.200	0.2069		mg/L		103	75 - 125	2	20
Selenium	<0.00500		0.400	0.4243		mg/L		106	75 - 125	2	20
Silver	<0.00100		0.100	0.1067		mg/L		107	75 - 125	1	20
Vanadium	0.00158	J	0.100	0.1094		mg/L		108	75 - 125	3	20
Zinc	<0.0200		0.200	0.2007		mg/L		100	75 - 125	0	20
Cobalt	0.00192		0.100	0.1066		mg/L		105	75 - 125	1	20

Lab Sample ID: 310-292673-17 MSD

Matrix: Water

Analysis Batch: 437173

Client Sample ID: MW-209B

Prep Type: Total/NA

Prep Batch: 436197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nickel	0.0552		0.200	0.2461		mg/L		95	75 - 125	1	20

Lab Sample ID: 310-292673-17 MSD

Matrix: Water

Analysis Batch: 438121

Client Sample ID: MW-209B

Prep Type: Total/NA

Prep Batch: 436197

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	<0.00100		0.100	0.1132		mg/L		113	75 - 125	1	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-790797/1

Matrix: Water

Analysis Batch: 790797

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.00		1.00	0.231	mg/L			10/15/24 20:18	1

Lab Sample ID: LCS 500-790797/2

Matrix: Water

Analysis Batch: 790797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.76	3.713		mg/L		99	80 - 120

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-436273/1

Matrix: Water

Analysis Batch: 436273

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			10/15/24 10:15	1

Eurofins Cedar Falls

QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: LCS 310-436273/2

Matrix: Water

Analysis Batch: 436273

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	107.0		mg/L		107	81 - 116

Lab Sample ID: 310-292673-20 DU

Matrix: Water

Analysis Batch: 436273

Client Sample ID: MW-6B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	46.0		52.00		mg/L		12	35

Lab Sample ID: MB 310-436283/1

Matrix: Water

Analysis Batch: 436283

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			10/15/24 10:50	1

Lab Sample ID: LCS 310-436283/2

Matrix: Water

Analysis Batch: 436283

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	98.00		mg/L		98	81 - 116

Lab Sample ID: MB 310-436295/1

Matrix: Water

Analysis Batch: 436295

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			10/15/24 12:16	1

Lab Sample ID: LCS 310-436295/2

Matrix: Water

Analysis Batch: 436295

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	103.0		mg/L		103	81 - 116

Lab Sample ID: MB 310-436319/1

Matrix: Water

Analysis Batch: 436319

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			10/15/24 12:58	1

Lab Sample ID: LCS 310-436319/2

Matrix: Water

Analysis Batch: 436319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	98.00		mg/L		98	81 - 116

Eurofins Cedar Falls

QC Association Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

GC/MS VOA

Analysis Batch: 436465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-2	MW-1B	Total/NA	Water	8260D	
310-292673-3	MW-206A	Total/NA	Water	8260D	
310-292673-4	MW-212A	Total/NA	Water	8260D	
310-292673-5	MW-310A	Total/NA	Water	8260D	
310-292673-6	MW-306A	Total/NA	Water	8260D	
310-292673-7	MW-211B	Total/NA	Water	8260D	
310-292673-8	MW-16A	Total/NA	Water	8260D	
310-292673-9	MW-200A	Total/NA	Water	8260D	
MB 310-436465/5	Method Blank	Total/NA	Water	8260D	
LCS 310-436465/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-436465/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 436588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-10	MW-29A	Total/NA	Water	8260D	
310-292673-11	MW-11B	Total/NA	Water	8260D	
310-292673-12	MW-408	Total/NA	Water	8260D	
310-292673-13	MW-312A	Total/NA	Water	8260D	
310-292673-15	MW-201A	Total/NA	Water	8260D	
310-292673-16	MW-10B	Total/NA	Water	8260D	
310-292673-17	MW-209B	Total/NA	Water	8260D	
310-292673-18	MW-207A	Total/NA	Water	8260D	
MB 310-436588/5	Method Blank	Total/NA	Water	8260D	
LCS 310-436588/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-436588/7	Lab Control Sample	Total/NA	Water	8260D	
310-292673-10 MS	MW-29A	Total/NA	Water	8260D	
310-292673-10 MSD	MW-29A	Total/NA	Water	8260D	

Analysis Batch: 436593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-20	MW-6B	Total/NA	Water	8260D	
310-292673-21	MW-18A-07	Total/NA	Water	8260D	
310-292673-22	MW-18AR	Total/NA	Water	8260D	
310-292673-23	TB-2	Total/NA	Water	8260D	
310-292673-24	TB-3	Total/NA	Water	8260D	
310-292673-25	TB-5	Total/NA	Water	8260D	
310-292673-26	TB-6	Total/NA	Water	8260D	
MB 310-436593/5	Method Blank	Total/NA	Water	8260D	
LCS 310-436593/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-436593/7	Lab Control Sample	Total/NA	Water	8260D	

GC Semi VOA

Leach Batch: 435869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-435869/1-D	Method Blank	Total/NA	Water	1311	

Prep Batch: 436103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-17	MW-209B	Total/NA	Water	3511	
LB 310-435869/1-D	Method Blank	Total/NA	Water	3511	435869

Eurofins Cedar Falls

QC Association Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

GC Semi VOA (Continued)

Prep Batch: 436103 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-436103/1-A	Method Blank	Total/NA	Water	3511	
LCS 310-436103/21-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 436114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-436103/1-A	Method Blank	Total/NA	Water	8081B	436103
LCS 310-436103/21-A	Lab Control Sample	Total/NA	Water	8081B	436103

Analysis Batch: 436243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-17	MW-209B	Total/NA	Water	8081B	436103
LB 310-435869/1-D	Method Blank	Total/NA	Water	8081B	436103

Prep Batch: 563718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-17	MW-209B	Total/NA	Water	8151A	
MB 410-563718/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-563718/2-A	Lab Control Sample	Total/NA	Water	8151A	

Analysis Batch: 564218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-17	MW-209B	Total/NA	Water	8151A	563718
MB 410-563718/1-A	Method Blank	Total/NA	Water	8151A	563718
LCS 410-563718/2-A	Lab Control Sample	Total/NA	Water	8151A	563718

Metals

Prep Batch: 436196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-1	MW-409	Total/NA	Water	3005A	
310-292673-2	MW-1B	Total/NA	Water	3005A	
310-292673-3	MW-206A	Total/NA	Water	3005A	
310-292673-4	MW-212A	Total/NA	Water	3005A	
310-292673-5	MW-310A	Total/NA	Water	3005A	
310-292673-6	MW-306A	Total/NA	Water	3005A	
310-292673-7	MW-211B	Total/NA	Water	3005A	
310-292673-8	MW-16A	Total/NA	Water	3005A	
310-292673-9	MW-200A	Total/NA	Water	3005A	
310-292673-10	MW-29A	Total/NA	Water	3005A	
310-292673-11	MW-11B	Total/NA	Water	3005A	
310-292673-12	MW-408	Total/NA	Water	3005A	
310-292673-13	MW-312A	Total/NA	Water	3005A	
310-292673-14	MW-15A	Total/NA	Water	3005A	
310-292673-15	MW-201A	Total/NA	Water	3005A	
310-292673-16	MW-10B	Total/NA	Water	3005A	
MB 310-436196/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-436196/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-292673-8 DU	MW-16A	Total/NA	Water	3005A	

Eurofins Cedar Falls

QC Association Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Metals

Prep Batch: 436197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-17	MW-209B	Total/NA	Water	3005A	
310-292673-18	MW-207A	Total/NA	Water	3005A	
310-292673-19	MW-11D	Total/NA	Water	3005A	
310-292673-20	MW-6B	Total/NA	Water	3005A	
310-292673-21	MW-18A-07	Total/NA	Water	3005A	
310-292673-22	MW-18AR	Total/NA	Water	3005A	
MB 310-436197/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-436197/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-292673-17 MS	MW-209B	Total/NA	Water	3005A	
310-292673-17 MSD	MW-209B	Total/NA	Water	3005A	

Analysis Batch: 436544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-1	MW-409	Total/NA	Water	6020B	436196
310-292673-2	MW-1B	Total/NA	Water	6020B	436196
310-292673-3	MW-206A	Total/NA	Water	6020B	436196
310-292673-4	MW-212A	Total/NA	Water	6020B	436196
310-292673-5	MW-310A	Total/NA	Water	6020B	436196
310-292673-6	MW-306A	Total/NA	Water	6020B	436196
310-292673-7	MW-211B	Total/NA	Water	6020B	436196
310-292673-8	MW-16A	Total/NA	Water	6020B	436196
310-292673-9	MW-200A	Total/NA	Water	6020B	436196
310-292673-10	MW-29A	Total/NA	Water	6020B	436196
310-292673-11	MW-11B	Total/NA	Water	6020B	436196
310-292673-12	MW-408	Total/NA	Water	6020B	436196
310-292673-13	MW-312A	Total/NA	Water	6020B	436196
310-292673-14	MW-15A	Total/NA	Water	6020B	436196
310-292673-15	MW-201A	Total/NA	Water	6020B	436196
310-292673-16	MW-10B	Total/NA	Water	6020B	436196
310-292673-17	MW-209B	Total/NA	Water	6020B	436197
310-292673-18	MW-207A	Total/NA	Water	6020B	436197
310-292673-19	MW-11D	Total/NA	Water	6020B	436197
310-292673-20	MW-6B	Total/NA	Water	6020B	436197
310-292673-21	MW-18A-07	Total/NA	Water	6020B	436197
310-292673-22	MW-18AR	Total/NA	Water	6020B	436197
MB 310-436196/1-A	Method Blank	Total/NA	Water	6020B	436196
MB 310-436197/1-A	Method Blank	Total/NA	Water	6020B	436197
LCS 310-436196/2-A	Lab Control Sample	Total/NA	Water	6020B	436196
LCS 310-436197/2-A	Lab Control Sample	Total/NA	Water	6020B	436197
310-292673-17 MS	MW-209B	Total/NA	Water	6020B	436197
310-292673-17 MSD	MW-209B	Total/NA	Water	6020B	436197
310-292673-8 DU	MW-16A	Total/NA	Water	6020B	436196

Analysis Batch: 437173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-2	MW-1B	Total/NA	Water	6020B	436196
310-292673-3	MW-206A	Total/NA	Water	6020B	436196
310-292673-4	MW-212A	Total/NA	Water	6020B	436196
310-292673-5	MW-310A	Total/NA	Water	6020B	436196
310-292673-7	MW-211B	Total/NA	Water	6020B	436196
310-292673-8	MW-16A	Total/NA	Water	6020B	436196

Eurofins Cedar Falls

QC Association Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Metals (Continued)

Analysis Batch: 437173 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-9	MW-200A	Total/NA	Water	6020B	436196
310-292673-10	MW-29A	Total/NA	Water	6020B	436196
310-292673-11	MW-11B	Total/NA	Water	6020B	436196
310-292673-12	MW-408	Total/NA	Water	6020B	436196
310-292673-13	MW-312A	Total/NA	Water	6020B	436196
310-292673-15	MW-201A	Total/NA	Water	6020B	436196
310-292673-16	MW-10B	Total/NA	Water	6020B	436196
310-292673-17	MW-209B	Total/NA	Water	6020B	436197
310-292673-18	MW-207A	Total/NA	Water	6020B	436197
310-292673-20	MW-6B	Total/NA	Water	6020B	436197
310-292673-22	MW-18AR	Total/NA	Water	6020B	436197
MB 310-436196/1-A	Method Blank	Total/NA	Water	6020B	436196
MB 310-436197/1-A	Method Blank	Total/NA	Water	6020B	436197
LCS 310-436196/2-A	Lab Control Sample	Total/NA	Water	6020B	436196
LCS 310-436197/2-A	Lab Control Sample	Total/NA	Water	6020B	436197
310-292673-17 MS	MW-209B	Total/NA	Water	6020B	436197
310-292673-17 MSD	MW-209B	Total/NA	Water	6020B	436197
310-292673-8 DU	MW-16A	Total/NA	Water	6020B	436196

Analysis Batch: 438020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-18	MW-207A	Total/NA	Water	6020B	436197
310-292673-20	MW-6B	Total/NA	Water	6020B	436197
MB 310-436197/1-A	Method Blank	Total/NA	Water	6020B	436197
LCS 310-436197/2-A	Lab Control Sample	Total/NA	Water	6020B	436197

Analysis Batch: 438121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-17	MW-209B	Total/NA	Water	6020B	436197
310-292673-17 MS	MW-209B	Total/NA	Water	6020B	436197
310-292673-17 MSD	MW-209B	Total/NA	Water	6020B	436197

General Chemistry

Analysis Batch: 436273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-13	MW-312A	Total/NA	Water	I-3765-85	
310-292673-14	MW-15A	Total/NA	Water	I-3765-85	
310-292673-15	MW-201A	Total/NA	Water	I-3765-85	
310-292673-16	MW-10B	Total/NA	Water	I-3765-85	
310-292673-17	MW-209B	Total/NA	Water	I-3765-85	
310-292673-18	MW-207A	Total/NA	Water	I-3765-85	
310-292673-19	MW-11D	Total/NA	Water	I-3765-85	
310-292673-20	MW-6B	Total/NA	Water	I-3765-85	
310-292673-21	MW-18A-07	Total/NA	Water	I-3765-85	
310-292673-22	MW-18AR	Total/NA	Water	I-3765-85	
MB 310-436273/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-436273/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-292673-20 DU	MW-6B	Total/NA	Water	I-3765-85	

Eurofins Cedar Falls

QC Association Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

General Chemistry

Analysis Batch: 436283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-3	MW-206A	Total/NA	Water	I-3765-85	
310-292673-4	MW-212A	Total/NA	Water	I-3765-85	
310-292673-12	MW-408	Total/NA	Water	I-3765-85	
MB 310-436283/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-436283/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 436295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-7	MW-211B	Total/NA	Water	I-3765-85	
310-292673-9	MW-200A	Total/NA	Water	I-3765-85	
310-292673-10	MW-29A	Total/NA	Water	I-3765-85	
MB 310-436295/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-436295/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 436319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-1	MW-409	Total/NA	Water	I-3765-85	
310-292673-2	MW-1B	Total/NA	Water	I-3765-85	
310-292673-5	MW-310A	Total/NA	Water	I-3765-85	
310-292673-6	MW-306A	Total/NA	Water	I-3765-85	
310-292673-8	MW-16A	Total/NA	Water	I-3765-85	
310-292673-11	MW-11B	Total/NA	Water	I-3765-85	
MB 310-436319/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-436319/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 790797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-292673-17	MW-209B	Total/NA	Water	9034	
310-292673-18	MW-207A	Total/NA	Water	9034	
310-292673-20	MW-6B	Total/NA	Water	9034	
310-292673-21	MW-18A-07	Total/NA	Water	9034	
310-292673-22	MW-18AR	Total/NA	Water	9034	
MB 500-790797/1	Method Blank	Total/NA	Water	9034	
LCS 500-790797/2	Lab Control Sample	Total/NA	Water	9034	

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-409

Lab Sample ID: 310-292673-1

Date Collected: 10/10/24 13:58

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 14:56
Total/NA	Analysis	I-3765-85		1	436319	DGU1	EET CF	10/15/24 12:58

Client Sample ID: MW-1B

Lab Sample ID: 310-292673-2

Date Collected: 10/10/24 13:33

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436465	FE5V	EET CF	10/17/24 11:46
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 14:58
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 16:40
Total/NA	Analysis	I-3765-85		1	436319	DGU1	EET CF	10/15/24 12:58

Client Sample ID: MW-206A

Lab Sample ID: 310-292673-3

Date Collected: 10/10/24 14:21

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436465	FE5V	EET CF	10/17/24 12:09
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:01
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 16:51
Total/NA	Analysis	I-3765-85		1	436283	DGU1	EET CF	10/15/24 10:50

Client Sample ID: MW-212A

Lab Sample ID: 310-292673-4

Date Collected: 10/10/24 13:00

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436465	FE5V	EET CF	10/17/24 12:32
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:03
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 16:54
Total/NA	Analysis	I-3765-85		1	436283	DGU1	EET CF	10/15/24 10:50

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-310A

Lab Sample ID: 310-292673-5

Date Collected: 10/10/24 11:01

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436465	FE5V	EET CF	10/17/24 12:54
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:15
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 16:56
Total/NA	Analysis	I-3765-85		1	436319	DGU1	EET CF	10/15/24 12:58

Client Sample ID: MW-306A

Lab Sample ID: 310-292673-6

Date Collected: 10/10/24 10:38

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436465	FE5V	EET CF	10/17/24 13:17
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:17
Total/NA	Analysis	I-3765-85		1	436319	DGU1	EET CF	10/15/24 12:58

Client Sample ID: MW-211B

Lab Sample ID: 310-292673-7

Date Collected: 10/10/24 12:28

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436465	FE5V	EET CF	10/17/24 13:40
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:20
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 16:58
Total/NA	Analysis	I-3765-85		1	436295	DGU1	EET CF	10/15/24 12:16

Client Sample ID: MW-16A

Lab Sample ID: 310-292673-8

Date Collected: 10/10/24 10:04

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436465	FE5V	EET CF	10/17/24 14:02
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:22
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:00
Total/NA	Analysis	I-3765-85		1	436319	DGU1	EET CF	10/15/24 12:58

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-200A

Lab Sample ID: 310-292673-9

Date Collected: 10/10/24 09:11

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436465	FE5V	EET CF	10/17/24 14:25
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:27
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:05
Total/NA	Analysis	I-3765-85		1	436295	DGU1	EET CF	10/15/24 12:16

Client Sample ID: MW-29A

Lab Sample ID: 310-292673-10

Date Collected: 10/10/24 08:09

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436588	FE5V	EET CF	10/17/24 21:14
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:29
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:07
Total/NA	Analysis	I-3765-85		1	436295	DGU1	EET CF	10/15/24 12:16

Client Sample ID: MW-11B

Lab Sample ID: 310-292673-11

Date Collected: 10/10/24 09:37

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436588	FE5V	EET CF	10/17/24 21:36
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:31
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:09
Total/NA	Analysis	I-3765-85		1	436319	DGU1	EET CF	10/15/24 12:58

Client Sample ID: MW-408

Lab Sample ID: 310-292673-12

Date Collected: 10/10/24 08:34

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436588	FE5V	EET CF	10/17/24 21:59
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:34
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:11
Total/NA	Analysis	I-3765-85		1	436283	DGU1	EET CF	10/15/24 10:50

Eurofins Cedar Falls

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-312A

Lab Sample ID: 310-292673-13

Date Collected: 10/09/24 14:54

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436588	FE5V	EET CF	10/17/24 22:22
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:36
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:23
Total/NA	Analysis	I-3765-85		1	436273	DGU1	EET CF	10/15/24 10:15

Client Sample ID: MW-15A

Lab Sample ID: 310-292673-14

Date Collected: 10/09/24 15:33

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:47
Total/NA	Analysis	I-3765-85		1	436273	DGU1	EET CF	10/15/24 10:15

Client Sample ID: MW-201A

Lab Sample ID: 310-292673-15

Date Collected: 10/09/24 10:47

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436588	FE5V	EET CF	10/17/24 22:45
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:50
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:25
Total/NA	Analysis	I-3765-85		1	436273	DGU1	EET CF	10/15/24 10:15

Client Sample ID: MW-10B

Lab Sample ID: 310-292673-16

Date Collected: 10/09/24 13:01

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436588	FE5V	EET CF	10/17/24 23:08
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 15:52
Total/NA	Prep	3005A			436196	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:27
Total/NA	Analysis	I-3765-85		1	436273	DGU1	EET CF	10/15/24 10:15

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-209B

Lab Sample ID: 310-292673-17

Date Collected: 10/09/24 10:01

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436588	FE5V	EET CF	10/17/24 23:31
Total/NA	Prep	3511			436103	D2YP	EET CF	10/14/24 09:17
Total/NA	Analysis	8081B		1	436243	BW2O	EET CF	10/15/24 15:12
Total/NA	Prep	8151A			563718	XU9L	ELLE	10/16/24 07:51
Total/NA	Analysis	8151A		5	564218	UAMZ	ELLE	10/17/24 21:08
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 16:01
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:36
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	438121	A6US	EET CF	10/30/24 12:49
Total/NA	Analysis	9034		1	790797	CLB	EET CHI	10/15/24 20:38 - 10/15/24 20:42 ¹
Total/NA	Analysis	I-3765-85		1	436273	DGU1	EET CF	10/15/24 10:15

Client Sample ID: MW-207A

Lab Sample ID: 310-292673-18

Date Collected: 10/09/24 08:52

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436588	FE5V	EET CF	10/17/24 23:53
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 16:10
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:43
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	438020	A6US	EET CF	10/29/24 16:35
Total/NA	Analysis	9034		1	790797	CLB	EET CHI	10/15/24 20:42 - 10/15/24 20:46 ¹
Total/NA	Analysis	I-3765-85		1	436273	DGU1	EET CF	10/15/24 10:15

Client Sample ID: MW-11D

Lab Sample ID: 310-292673-19

Date Collected: 10/09/24 13:23

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 16:22
Total/NA	Analysis	I-3765-85		1	436273	DGU1	EET CF	10/15/24 10:15

Client Sample ID: MW-6B

Lab Sample ID: 310-292673-20

Date Collected: 10/09/24 09:19

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436593	FE5V	EET CF	10/18/24 07:05

Eurofins Cedar Falls

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: MW-6B

Lab Sample ID: 310-292673-20

Date Collected: 10/09/24 09:19

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 16:24
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:45
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	438020	A6US	EET CF	10/29/24 16:37
Total/NA	Analysis	9034		1	790797	CLB	EET CHI	10/15/24 20:46 - 10/15/24 20:50 ¹
Total/NA	Analysis	I-3765-85		1	436273	DGU1	EET CF	10/15/24 10:15

Client Sample ID: MW-18A-07

Lab Sample ID: 310-292673-21

Date Collected: 10/09/24 08:20

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436593	FE5V	EET CF	10/18/24 07:28
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 16:26
Total/NA	Analysis	9034		1	790797	CLB	EET CHI	10/15/24 20:50 - 10/15/24 20:54 ¹
Total/NA	Analysis	I-3765-85		1	436273	DGU1	EET CF	10/15/24 10:15

Client Sample ID: MW-18AR

Lab Sample ID: 310-292673-22

Date Collected: 10/09/24 07:53

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436593	FE5V	EET CF	10/18/24 07:51
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	436544	A6US	EET CF	10/16/24 16:29
Total/NA	Prep	3005A			436197	QTZ5	EET CF	10/15/24 09:30
Total/NA	Analysis	6020B		1	437173	A6US	EET CF	10/22/24 17:56
Total/NA	Analysis	9034		1	790797	CLB	EET CHI	10/15/24 20:54 - 10/15/24 20:58 ¹
Total/NA	Analysis	I-3765-85		1	436273	DGU1	EET CF	10/15/24 10:15

Client Sample ID: TB-2

Lab Sample ID: 310-292673-23

Date Collected: 10/09/24 00:00

Matrix: Water

Date Received: 10/11/24 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436593	FE5V	EET CF	10/18/24 05:11

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Client Sample ID: TB-3
Date Collected: 10/09/24 00:00
Date Received: 10/11/24 13:50

Lab Sample ID: 310-292673-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436593	FE5V	EET CF	10/18/24 05:34

Client Sample ID: TB-5
Date Collected: 10/09/24 00:00
Date Received: 10/11/24 13:50

Lab Sample ID: 310-292673-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436593	FE5V	EET CF	10/18/24 05:57

Client Sample ID: TB-6
Date Collected: 10/09/24 00:00
Date Received: 10/11/24 13:50

Lab Sample ID: 310-292673-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436593	FE5V	EET CF	10/18/24 06:19

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:
EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	10-23-24
A2LA	ISO/IEC 17025	0001.01	10-23-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	10-29-24
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-25
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	10-23-24
Kentucky (WW)	State	KY90088	12-31-24
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-25
Maryland	State	100	10-21-24
Massachusetts	State	M-PA009	06-30-25
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-25
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-24 *
Oregon	NELAP	PA200001	09-11-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Cedar Falls

Accreditation/Certification Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-29
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-25
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-25
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-27-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-25
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	10-23-24

Method Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	SW846	EET CF
8151A	Herbicides (GC)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	EET CF
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CHI
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3511	Microextraction of Organic Compounds	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



Environment Testing
America



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>HDR</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>10/11/24</u>	TIME <u>1350</u>	Received By: <u>XB</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID:
Multiple Coolers?		☒ Yes ☒ No	If yes: Cooler # <u>1</u> of <u>4</u>
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☒ Yes ☐ No	If yes: Which VOA samples are in cooler? ↓
<u>MW-209B, MW-207A, TB-3</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>3.2</u>		Corrected Temp (°C): <u>3.2</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>HVP</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>10/14/24</u>	TIME <u>1350</u>	Received By: <u>XB</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID:
Multiple Coolers?		☒ Yes ☐ No	If yes: Cooler # <u>2</u> of <u>4</u>
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☒ Yes ☐ No	If yes: Which VOA samples are in cooler? ↓
<u>MW-29A, 408, 10B, 201A, 212A, 103, 300A</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>Z</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>40</u>		Corrected Temp (°C): <u>40</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE. If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>HDR</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>10/11/24</u>	TIME <u>1350</u>	Received By: <u>XB</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID: _____
Multiple Coolers?		☒ Yes ☐ No	If yes: Cooler # <u>3</u> of <u>4</u>
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☒ Yes ☐ No	If yes: Which VOA samples are in cooler? ↓
<u>MW-GB, 18A-07, 18AR, TB-2</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>Z</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>2.3</u>		Corrected Temp (°C): <u>2.3</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



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Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>ADR</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>10/11/24</u>	TIME <u>1350</u>	Received By: <u>XB</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID:
Multiple Coolers?		☒ Yes ☐ No	If yes: Cooler # <u>4</u> of <u>4</u>
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☒ Yes ☐ No	If yes: Which VOA samples are in cooler? ↓
<u>MW 16A, 1B, 2UB, 206A, 310A, 212A, TB 6</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>Z</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>1.7</u>		Corrected Temp (°C): <u>1.7</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Chain of Custody Record

Client Information		Sampler: <u>Joel Fuhrmeister</u>		Lab PM: <u>Calhoun, Conner M</u>		Carrier Tracking No(s):		COC No: <u>310-98143-26703.6</u>	
Client Contact: <u>Richard Wilson</u>		Phone: <u>319-936-5194</u>		E-Mail: <u>Conner.Calhoun@et.eurofins.com</u>		State of Origin:		Page: <u>2 of 2</u>	
Company: <u>HDR Inc</u>		PWSID:		Analysis Requested		Job #:		Preservation Codes: D - HNO3 A - HCL N - None CB - ZrAcetate/NaOH Other:	
Address: <u>1917 S 67th Street</u>		Due Date Requested		Field Filtered Sample (Yes or No)		Appendix 1		Total Number of Containers	
City: <u>Omaha</u>		TAT Requested (days):		Matrix (W=water, S=solid, O=wastewater, BT=biological, A=air)		Metals List: As, Ba, Co, Cu, Pb, Ni		Tetrachloroethene, trichloroethene, Vinyl Chloride	
State, Zip: <u>NE, 68106</u>		Compliance Project: ☐ Yes ☒ No		Sample Type (C=Comp, G=grab)		App 1 VOC only		Benzene	
Phone: <u>308-882-6141 (Tel)</u>		PO #:		Sample Time		L 3765, 85 - TSS		Cobalt	
Email: <u>richard.wilson2@hdrinc.com</u>		WO #:		Sample Date		9034 Calc - Sulfide		Arenic	
Project Name: <u>Iowa City Landfill Recycling Center</u>		Project #: <u>31018052</u>		Preservation Code:		Dichlorodifluoromethane		8081B - Beta BHC	
Site: <u>SSOW#:</u>		SSOW#:		G		9034 Calc - Sulfide		8151A - 2,4,5-TP (Silvex)	
Sample Identification		Sample Date		Sample Time		Matrix		8081B - Beta BHC	
<u>MW-408</u>		<u>10-10-24</u>		<u>8:34</u>		<u>Water</u>		8151A - 2,4,5-TP (Silvex)	
<u>MW-312A</u>		<u>10-9-24</u>		<u>14:54</u>		<u>Water</u>		Dichlorodifluoromethane	
<u>MW-15A</u>		<u>10-9-24</u>		<u>15:33</u>		<u>Water</u>		L 3765, 85 - TSS	
<u>MW-201A</u>		<u>10-9-24</u>		<u>10:47</u>		<u>Water</u>		App 1 VOC only	
<u>MW-10B</u>		<u>10-9-24</u>		<u>13:01</u>		<u>Water</u>		Metals List: As, Ba, Co, Cu, Pb, Ni	
<u>MW-209B</u>		<u>10-9-24</u>		<u>10:01</u>		<u>Water</u>		Field Filtered Sample (Yes or No)	
<u>MW-207A</u>		<u>10-9-24</u>		<u>8:52</u>		<u>Water</u>		Perform MS/MSD (Yes or No)	
<u>MW-11D</u>		<u>10-9-24</u>		<u>13:23</u>		<u>Water</u>		Appendix 1	
<u>MW-6B</u>		<u>10-9-24</u>		<u>9:19</u>		<u>Water</u>		9034 Calc - Sulfide	
<u>MW-18A-07</u>		<u>10-9-24</u>		<u>8:20</u>		<u>Water</u>		L 3765, 85 - TSS	
<u>MW-18AR</u>		<u>10-9-24</u>		<u>7:53</u>		<u>Water</u>		App 1 VOC only	
Possible Hazard Identification		Sample Date		Sample Time		Matrix		Metals List: As, Ba, Co, Cu, Pb, Ni	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Time		Sample Date		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)	
Deliverable Requested I, II, III, IV Other (specify)		Sample Date		Sample Time		Matrix		Perform MS/MSD (Yes or No)	
Empty Kit Relinquished by		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Appendix 1	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		9034 Calc - Sulfide	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		L 3765, 85 - TSS	
Relinquished by		Date/Time:		Date/Time:		Matrix		App 1 VOC only	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Metals List: As, Ba, Co, Cu, Pb, Ni	
Custody Seal No		Date/Time:		Date/Time:		Matrix		Field Filtered Sample (Yes or No)	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Perform MS/MSD (Yes or No)	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		Appendix 1	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		9034 Calc - Sulfide	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		L 3765, 85 - TSS	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		App 1 VOC only	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		Metals List: As, Ba, Co, Cu, Pb, Ni	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)	
Relinquished by		Date/Time:		Date/Time:		Matrix		Perform MS/MSD (Yes or No)	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Appendix 1	
Custody Seal No		Date/Time:		Date/Time:		Matrix		9034 Calc - Sulfide	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		L 3765, 85 - TSS	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		App 1 VOC only	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Metals List: As, Ba, Co, Cu, Pb, Ni	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		Field Filtered Sample (Yes or No)	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Perform MS/MSD (Yes or No)	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		Appendix 1	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		9034 Calc - Sulfide	
Relinquished by		Date/Time:		Date/Time:		Matrix		L 3765, 85 - TSS	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		App 1 VOC only	
Custody Seal No		Date/Time:		Date/Time:		Matrix		Metals List: As, Ba, Co, Cu, Pb, Ni	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		Perform MS/MSD (Yes or No)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Appendix 1	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		9034 Calc - Sulfide	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		L 3765, 85 - TSS	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		App 1 VOC only	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Metals List: As, Ba, Co, Cu, Pb, Ni	
Relinquished by		Date/Time:		Date/Time:		Matrix		Field Filtered Sample (Yes or No)	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Perform MS/MSD (Yes or No)	
Custody Seal No		Date/Time:		Date/Time:		Matrix		Appendix 1	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		9034 Calc - Sulfide	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		L 3765, 85 - TSS	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		App 1 VOC only	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		Metals List: As, Ba, Co, Cu, Pb, Ni	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		Perform MS/MSD (Yes or No)	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Appendix 1	
Relinquished by		Date/Time:		Date/Time:		Matrix		9034 Calc - Sulfide	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		L 3765, 85 - TSS	
Custody Seal No		Date/Time:		Date/Time:		Matrix		App 1 VOC only	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Metals List: As, Ba, Co, Cu, Pb, Ni	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		Field Filtered Sample (Yes or No)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Perform MS/MSD (Yes or No)	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		Appendix 1	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		9034 Calc - Sulfide	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		L 3765, 85 - TSS	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		App 1 VOC only	
Relinquished by		Date/Time:		Date/Time:		Matrix		Metals List: As, Ba, Co, Cu, Pb, Ni	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)	
Custody Seal No		Date/Time:		Date/Time:		Matrix		Perform MS/MSD (Yes or No)	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Appendix 1	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		9034 Calc - Sulfide	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		L 3765, 85 - TSS	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		App 1 VOC only	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Metals List: As, Ba, Co, Cu, Pb, Ni	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		Field Filtered Sample (Yes or No)	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Perform MS/MSD (Yes or No)	
Relinquished by		Date/Time:		Date/Time:		Matrix		Appendix 1	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		9034 Calc - Sulfide	
Custody Seal No		Date/Time:		Date/Time:		Matrix		L 3765, 85 - TSS	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		App 1 VOC only	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		Metals List: As, Ba, Co, Cu, Pb, Ni	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		Perform MS/MSD (Yes or No)	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Appendix 1	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		9034 Calc - Sulfide	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		L 3765, 85 - TSS	
Relinquished by		Date/Time:		Date/Time:		Matrix		App 1 VOC only	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Metals List: As, Ba, Co, Cu, Pb, Ni	
Custody Seal No		Date/Time:		Date/Time:		Matrix		Field Filtered Sample (Yes or No)	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Perform MS/MSD (Yes or No)	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		Appendix 1	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		9034 Calc - Sulfide	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		L 3765, 85 - TSS	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		App 1 VOC only	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		Metals List: As, Ba, Co, Cu, Pb, Ni	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)	
Relinquished by		Date/Time:		Date/Time:		Matrix		Perform MS/MSD (Yes or No)	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Appendix 1	
Custody Seal No		Date/Time:		Date/Time:		Matrix		9034 Calc - Sulfide	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		L 3765, 85 - TSS	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		App 1 VOC only	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Metals List: As, Ba, Co, Cu, Pb, Ni	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		Field Filtered Sample (Yes or No)	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Perform MS/MSD (Yes or No)	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		Appendix 1	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		9034 Calc - Sulfide	
Relinquished by		Date/Time:		Date/Time:		Matrix		L 3765, 85 - TSS	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		App 1 VOC only	
Custody Seal No		Date/Time:		Date/Time:		Matrix		Metals List: As, Ba, Co, Cu, Pb, Ni	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		Perform MS/MSD (Yes or No)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Appendix 1	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		9034 Calc - Sulfide	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		L 3765, 85 - TSS	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		App 1 VOC only	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Metals List: As, Ba, Co, Cu, Pb, Ni	
Relinquished by		Date/Time:		Date/Time:		Matrix		Field Filtered Sample (Yes or No)	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Perform MS/MSD (Yes or No)	
Custody Seal No		Date/Time:		Date/Time:		Matrix		Appendix 1	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		9034 Calc - Sulfide	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		L 3765, 85 - TSS	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		App 1 VOC only	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		Metals List: As, Ba, Co, Cu, Pb, Ni	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		Perform MS/MSD (Yes or No)	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Appendix 1	
Relinquished by		Date/Time:		Date/Time:		Matrix		9034 Calc - Sulfide	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		L 3765, 85 - TSS	
Custody Seal No		Date/Time:		Date/Time:		Matrix		App 1 VOC only	
Cooler Temperature(s) °C and Other Remarks:		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Metals List: As, Ba, Co, Cu, Pb, Ni	
Special Instructions/QC Requirements		Date/Time:		Date/Time:		Matrix		Field Filtered Sample (Yes or No)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Perform MS/MSD (Yes or No)	
☐ Return To Client ☐ Disposal By Lab ☐ Archive For <u>Months</u>		Date/Time:		Date/Time:		Matrix		Appendix 1	
Method of Shipment		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		9034 Calc - Sulfide	
Relinquished by <u>JK</u>		Date/Time: <u>10-11-24</u>		Date/Time: <u>10-11-24</u>		Matrix		L 3765, 85 - TSS	
Relinquished by		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		App 1 VOC only	
Relinquished by		Date/Time:		Date/Time:		Matrix		Metals List: As, Ba, Co, Cu, Pb, Ni	
Custody Seals Intact: ☐ Yes ☒ No		Date/Time:		Date/Time:		Sample Type (C=Comp, G=grab)		Field Filtered Sample (	

Chain of Custody Record

Client Information		Lab PM: Calhoun, Conner M		Carrier Tracking No(s):		COC No: 310-98143-26703 6	
Client Contact: Richard Wilson		Phone: 319-936-5194		E-Mail: Conner.Calhoun@eurofins.com		Page: 2 of 2	
Company: HDR Inc		PWSID:		State of Origin:		Job #:	
Address: 1917 S 67th Street		Due Date Requested:		Analysis Requested			
City: Omaha		TAT Requested (days):					
State, Zip: NE, 68106		Compliance Project: ☐ Yes ☒ No					
Phone: 308-882-6141 (Tel)		PO #:					
Email: richard.wilson2@hdrinc.com		WO #:					
Project Name: Iowa City Landfill Recycling Center		Project #: 31018052					
Site:		SSOW#:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, AAU)	Preservation Code:	
MW-409	10-10-24	1358	G	Water			
MW-11B	10-10-24	1333	G	Water			
MW-206A	10-10-24	1421	G	Water			
MW-212A	10-10-24	1300	G	Water			
MW-310A	10-10-24	1101	G	Water			
MW-306A	10-10-24	1038	G	Water			
MW-211B	10-10-24	1328	G	Water			
MW-16A	10-10-24	1004	G	Water			
MW-200A	10-10-24	911	G	Water			
MW-29A	10-10-24	809	G	Water			
MW-11B	10-10-24	937	G	Water			
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Deliverable Requested I, II, III, IV Other (specify)		☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Empty Kit Relinquished by		Date:		Special Instructions/QC Requirements			
Relinquished by		Date/Time: 10-11-24		Company: COC		Received by: [Signature]	
Relinquished by		Date/Time:		Company:		Received by:	
Relinquished by		Date/Time:		Company:		Received by:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:			

3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

 **eurofins** | Environment Testing

[illegible]

Eurofins Cedar Falls

3019 Venture Way

Cedar Falls, IA 50613

Phone 319-277-2401 Fax: 319-277-2425

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:		Lab PM Calhoun, Conner M		Carrier Tracking No(s):		COC No: 310-77313 1			
Client Contact: Shipping/Receiving		Phone:		E-Mail: Conner Calhoun@et.eurofinsus.com		State of Origin: Iowa		Page: Page 1 of 1			
Company: Eurofins Environment Testing North Centr				Accreditations Required (See note) State - Iowa, State Program - Iowa				Job #: 310-292673-1			
Address: 2417 Bond Street,		Due Date Requested 10/24/2024		Analysis Requested						Preservation Codes.	
City: University Park		TAT Requested (days)									
State Zip: IL, 60484		PO #:									
Phone: 708-534-5200(Tel) 708-534-5211(Fax)		WO #:									
Email:		Project #: 31018052		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers		Other:	
Project Name: Iowa City Landfill		SSOW#:									
Site:		310-292673 COC		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:	
MW-209B (310-292673-17)		10/9/24		10 01 Central		G		Water			
MW-207A (310-292673-18)		10/9/24		08 52 Central		G		Water			
MW-6B (310-292673-20)		10/9/24		09 19 Central		G		Water			
MW-18A-07 (310-292673-21)		10/9/24		08 20 Central		G		Water			
MW-18AR (310-292673-22)		10/9/24		07 53 Central		G		Water			
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing North Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central LLC.											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)						Primary Deliverable Rank 2					
						Special Instructions/QC Requirements					
Empty Kit Relinquished by				Date		Time		Method of Shipment:			
Relinquished by:				Date/Time: 10/15/24 1035		Company:		Received by: Date/Time: 10/15/24 0940 Company:			
Relinquished by:				Date/Time:		Company:		Received by: Date/Time: Company:			
Relinquished by:				Date/Time:		Company:		Received by: Date/Time: Company:			
Custody Seals Intact. Δ Yes Δ No				Custody Seal No		Cooler Temperature(s) °C and Other Remarks. 1.8 → 1.8					

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 310-292673-1

Login Number: 292673

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Hirsch, Preston

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 310-292673-1

Login Number: 292673

List Number: 2

Creator: Scott, Sherri L

List Source: Eurofins Chicago

List Creation: 10/15/24 01:53 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 310-292673-1

Login Number: 292673

List Number: 3

Creator: Metzger, Katherine A

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Creation: 10/15/24 04:58 PM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Quantitation Limit Exceptions Summary

Client: HDR Inc
Project/Site: Iowa City Landfill

Job ID: 310-292673-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1



ANALYTICAL REPORT

PREPARED FOR

Attn: Richard Wilson
HDR Inc
1917 S 67th Street
Omaha, Nebraska 68106

Generated 11/6/2024 6:26:43 PM

JOB DESCRIPTION

Iowa City Landfill Recycling Center

JOB NUMBER

310-293033-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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11/6/2024 6:26:43 PM

Authorized for release by
Conner Calhoun, Client Service Manager
Conner.Calhoun@et.eurofinsus.com
(319)277-2401

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Case Narrative

Client: HDR Inc
Project: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Job ID: 310-293033-1

Eurofins Cedar Falls

Job Narrative 310-293033-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/16/2024 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.0°C, 2.8°C and 5.6°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-436794 recovered above the upper control limit for Carbon disulfide(21.9%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-436794/3).

Method 8260D: The initial calibration verification (ICV) result for batch 310-436794 was above the upper control limit. The affected analyte is: Iodomethane. Sample results were non-detects, and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 9034_Calc: The following sample was analyzed outside of analytical holding time due to analyst error: MW-407 (310-293033-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-293033-1	MW-218A	Water	10/15/24 09:43	10/16/24 16:15
310-293033-2	MW-220A	Water	10/15/24 10:12	10/16/24 16:15
310-293033-3	MW-7C	Water	10/15/24 08:14	10/16/24 16:15
310-293033-4	MW-2A-97	Water	10/14/24 09:57	10/16/24 16:15
310-293033-5	MW-25A	Water	10/15/24 09:13	10/16/24 16:15
310-293033-6	MW-24A	Water	10/15/24 08:46	10/16/24 16:15
310-293033-7	MW-217A	Water	10/14/24 10:44	10/16/24 16:15
310-293033-8	MW-1A	Water	10/14/24 09:01	10/16/24 16:15
310-293033-9	MW-216A	Water	10/14/24 09:28	10/16/24 16:15
310-293033-10	MW-407	Water	10/14/24 14:25	10/16/24 16:15
310-293033-11	MW-410	Water	10/14/24 13:29	10/16/24 16:15
310-293033-12	MW-219A	Water	10/14/24 12:45	10/16/24 16:15
310-293033-13	MW-404	Water	10/14/24 15:01	10/16/24 16:15
310-293033-14	MW-2C-97	Water	10/14/24 10:17	10/16/24 16:15
310-293033-15	Dup-1	Water	10/14/24 10:44	10/16/24 16:15
310-293033-16	Dup-2	Water	10/11/24 11:02	10/16/24 16:15
310-293033-17	MW-31B	Water	10/11/24 11:02	10/16/24 16:15
310-293033-18	WT-OF	Water	10/11/24 09:54	10/16/24 16:15
310-293033-19	WT-1	Water	10/11/24 10:38	10/16/24 16:15
310-293033-20	WT-4	Water	10/11/24 10:01	10/16/24 16:15
310-293033-21	WT-2	Water	10/11/24 10:23	10/16/24 16:15
310-293033-22	WT-3	Water	10/11/24 10:15	10/16/24 16:15
310-293033-23	Trip Blank 1	Water	10/15/24 00:00	10/16/24 16:15
310-293033-24	Trip Blank 2	Water	10/15/24 00:00	10/16/24 16:15
310-293033-25	Trip Blank 3	Water	10/15/24 00:00	10/16/24 16:15

Detection Summary

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Client Sample ID: MW-218A

Lab Sample ID: 310-293033-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.244		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: MW-220A

Lab Sample ID: 310-293033-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.298		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: MW-7C

Lab Sample ID: 310-293033-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00197	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Total Suspended Solids	10.7		2.50	1.85	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-2A-97

Lab Sample ID: 310-293033-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00444		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.323		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000167	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.0213		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0103		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.33		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-25A

Lab Sample ID: 310-293033-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.195		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: MW-24A

Lab Sample ID: 310-293033-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0104		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.306		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00854		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00768		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	20.0		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-217A

Lab Sample ID: 310-293033-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0906		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: MW-1A

Lab Sample ID: 310-293033-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0115		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.274		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00250		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00275	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	25.5		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-216A

Lab Sample ID: 310-293033-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0508		0.00200	0.000660	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: HDR Inc

Job ID: 310-293033-1

Client Sample ID: MW-216A (Continued)

Lab Sample ID: 310-293033-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.00417	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Selenium	0.00144	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	6.00		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-407

Lab Sample ID: 310-293033-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000826	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.25		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-410

Lab Sample ID: 310-293033-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0925		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000299	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00282	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.50	J	1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-219A

Lab Sample ID: 310-293033-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.607		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: MW-404

Lab Sample ID: 310-293033-13

No Detections.

Client Sample ID: MW-2C-97

Lab Sample ID: 310-293033-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.00581		0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.50		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Dup-1

Lab Sample ID: 310-293033-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0826		0.00200	0.000660	mg/L	1		6020B	Total/NA
Beryllium	0.000529	J	0.00100	0.000330	mg/L	1		6020B	Total/NA
Cadmium	0.000664		0.000200	0.000100	mg/L	1		6020B	Total/NA
Chromium	0.00190	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.000692		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00110		0.000500	0.000260	mg/L	1		6020B	Total/NA
Selenium	0.00282	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Silver	0.00241		0.00100	0.000500	mg/L	1		6020B	Total/NA
Vanadium	0.00127	J	0.00500	0.00110	mg/L	1		6020B	Total/NA

Client Sample ID: Dup-2

Lab Sample ID: 310-293033-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.430		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000170	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000294	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Silver	0.000690	J	0.00100	0.000500	mg/L	1		6020B	Total/NA
Total Suspended Solids	21.8		1.88	1.39	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Client Sample ID: MW-31B

Lab Sample ID: 310-293033-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.408		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000243	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000439	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Total Suspended Solids	36.7		2.50	1.85	mg/L	1		I-3765-85	Total/NA

Client Sample ID: WT-OF

Lab Sample ID: 310-293033-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.113		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000100	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000769		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0194		0.00500	0.00210	mg/L	1		6020B	Total/NA

Client Sample ID: WT-1

Lab Sample ID: 310-293033-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00668		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.480		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000134	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Chromium	0.0126		0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.0179		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00956		0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.00597		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0143		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.0210		0.00500	0.00110	mg/L	1		6020B	Total/NA
Zinc	0.0291		0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	4570		150	111	mg/L	1		I-3765-85	Total/NA

Client Sample ID: WT-4

Lab Sample ID: 310-293033-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00208		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.132		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000203		0.000200	0.000100	mg/L	1		6020B	Total/NA
Chromium	0.00469	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.00511		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00458	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.00269		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0336		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00827		0.00500	0.00110	mg/L	1		6020B	Total/NA
Zinc	0.0172	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	566		30.0	22.2	mg/L	1		I-3765-85	Total/NA

Client Sample ID: WT-2

Lab Sample ID: 310-293033-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0126		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.205		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00192		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000334	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00250	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00121	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	83.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Client Sample ID: WT-3

Lab Sample ID: 310-293033-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0349		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.544		0.00200	0.000660	mg/L	1		6020B	Total/NA
Chromium	0.00361	J	0.00500	0.00120	mg/L	1		6020B	Total/NA
Cobalt	0.00456		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00320	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.00162		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00710		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00703		0.00500	0.00110	mg/L	1		6020B	Total/NA
Zinc	0.0115	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	158		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-293033-23

No Detections.

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-293033-24

No Detections.

Client Sample ID: Trip Blank 3

Lab Sample ID: 310-293033-25

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-218A

Lab Sample ID: 310-293033-1

Date Collected: 10/15/24 09:43

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/22/24 13:41	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/22/24 13:41	1
Benzene	<0.500		0.500	0.220	ug/L			10/22/24 13:41	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/22/24 13:41	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/22/24 13:41	1
Bromoform	<5.00		5.00	0.780	ug/L			10/22/24 13:41	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/22/24 13:41	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/22/24 13:41	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/22/24 13:41	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/22/24 13:41	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/22/24 13:41	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/22/24 13:41	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/22/24 13:41	1
Chloroform	<3.00		3.00	1.30	ug/L			10/22/24 13:41	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/22/24 13:41	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/22/24 13:41	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/22/24 13:41	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/22/24 13:41	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/22/24 13:41	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/22/24 13:41	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/22/24 13:41	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/22/24 13:41	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/22/24 13:41	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/22/24 13:41	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/22/24 13:41	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/22/24 13:41	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/22/24 13:41	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/22/24 13:41	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/22/24 13:41	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/22/24 13:41	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/22/24 13:41	1
Styrene	<1.00		1.00	0.370	ug/L			10/22/24 13:41	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/22/24 13:41	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/22/24 13:41	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/22/24 13:41	1
Toluene	<1.00		1.00	0.430	ug/L			10/22/24 13:41	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/22/24 13:41	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/22/24 13:41	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/22/24 13:41	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/22/24 13:41	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/22/24 13:41	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/22/24 13:41	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/22/24 13:41	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/22/24 13:41	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/22/24 13:41	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/22/24 13:41	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/22/24 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/22/24 13:41	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-218A

Lab Sample ID: 310-293033-1

Date Collected: 10/15/24 09:43

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/22/24 13:41	1
Toluene-d8 (Surr)	97		80 - 120		10/22/24 13:41	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/31/24 15:45	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 15:45	1
Barium	0.244		0.00200	0.000660	mg/L		10/21/24 09:30	10/31/24 15:45	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/31/24 15:45	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/31/24 15:45	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/31/24 15:45	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/21/24 09:30	10/31/24 15:45	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/31/24 15:45	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/31/24 15:45	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/21/24 09:30	10/31/24 15:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/31/24 15:45	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/31/24 15:45	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/31/24 15:45	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/31/24 15:45	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/31/24 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			10/17/24 12:51	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-220A

Lab Sample ID: 310-293033-2

Date Collected: 10/15/24 10:12

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/22/24 14:04	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/22/24 14:04	1
Benzene	<0.500		0.500	0.220	ug/L			10/22/24 14:04	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/22/24 14:04	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/22/24 14:04	1
Bromoform	<5.00		5.00	0.780	ug/L			10/22/24 14:04	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/22/24 14:04	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/22/24 14:04	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/22/24 14:04	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/22/24 14:04	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/22/24 14:04	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/22/24 14:04	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/22/24 14:04	1
Chloroform	<3.00		3.00	1.30	ug/L			10/22/24 14:04	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/22/24 14:04	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/22/24 14:04	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/22/24 14:04	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/22/24 14:04	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/22/24 14:04	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/22/24 14:04	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/22/24 14:04	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/22/24 14:04	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/22/24 14:04	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/22/24 14:04	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/22/24 14:04	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/22/24 14:04	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/22/24 14:04	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/22/24 14:04	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/22/24 14:04	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/22/24 14:04	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/22/24 14:04	1
Styrene	<1.00		1.00	0.370	ug/L			10/22/24 14:04	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/22/24 14:04	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/22/24 14:04	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/22/24 14:04	1
Toluene	<1.00		1.00	0.430	ug/L			10/22/24 14:04	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/22/24 14:04	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/22/24 14:04	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/22/24 14:04	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/22/24 14:04	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/22/24 14:04	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/22/24 14:04	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/22/24 14:04	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/22/24 14:04	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/22/24 14:04	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/22/24 14:04	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/22/24 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/22/24 14:04	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-220A

Lab Sample ID: 310-293033-2

Date Collected: 10/15/24 10:12

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/22/24 14:04	1
Toluene-d8 (Surr)	98		80 - 120		10/22/24 14:04	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/31/24 15:47	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 15:47	1
Barium	0.298		0.00200	0.000660	mg/L		10/21/24 09:30	10/31/24 15:47	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/31/24 15:47	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/31/24 15:47	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/31/24 15:47	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/21/24 09:30	10/31/24 15:47	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/31/24 15:47	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/31/24 15:47	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/21/24 09:30	10/31/24 15:47	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/31/24 15:47	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/31/24 15:47	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/31/24 15:47	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/31/24 15:47	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/31/24 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			10/18/24 07:11	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-7C
Date Collected: 10/15/24 08:14
Date Received: 10/16/24 16:15

Lab Sample ID: 310-293033-3
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00197	J	0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 15:49	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	10.7		2.50	1.85	mg/L			10/18/24 07:11	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-2A-97

Lab Sample ID: 310-293033-4

Date Collected: 10/14/24 09:57

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/22/24 14:27	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/22/24 14:27	1
Benzene	<0.500		0.500	0.220	ug/L			10/22/24 14:27	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/22/24 14:27	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/22/24 14:27	1
Bromoform	<5.00		5.00	0.780	ug/L			10/22/24 14:27	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/22/24 14:27	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/22/24 14:27	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/22/24 14:27	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/22/24 14:27	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/22/24 14:27	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/22/24 14:27	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/22/24 14:27	1
Chloroform	<3.00		3.00	1.30	ug/L			10/22/24 14:27	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/22/24 14:27	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/22/24 14:27	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/22/24 14:27	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/22/24 14:27	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/22/24 14:27	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/22/24 14:27	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/22/24 14:27	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/22/24 14:27	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/22/24 14:27	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/22/24 14:27	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/22/24 14:27	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/22/24 14:27	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/22/24 14:27	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/22/24 14:27	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/22/24 14:27	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/22/24 14:27	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/22/24 14:27	1
Styrene	<1.00		1.00	0.370	ug/L			10/22/24 14:27	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/22/24 14:27	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/22/24 14:27	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/22/24 14:27	1
Toluene	<1.00		1.00	0.430	ug/L			10/22/24 14:27	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/22/24 14:27	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/22/24 14:27	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/22/24 14:27	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/22/24 14:27	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/22/24 14:27	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/22/24 14:27	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/22/24 14:27	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/22/24 14:27	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/22/24 14:27	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/22/24 14:27	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/22/24 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/22/24 14:27	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-2A-97

Lab Sample ID: 310-293033-4

Date Collected: 10/14/24 09:57

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/22/24 14:27	1
Toluene-d8 (Surr)	98		80 - 120		10/22/24 14:27	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/31/24 15:51	1
Arsenic	0.00444		0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 15:51	1
Barium	0.323		0.00200	0.000660	mg/L		10/21/24 09:30	10/31/24 15:51	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/31/24 15:51	1
Cadmium	0.000167 J		0.000200	0.000100	mg/L		10/21/24 09:30	10/31/24 15:51	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/31/24 15:51	1
Cobalt	0.0213		0.000500	0.000170	mg/L		10/21/24 09:30	10/31/24 15:51	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/31/24 15:51	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/31/24 15:51	1
Nickel	0.0103		0.00500	0.00210	mg/L		10/21/24 09:30	10/31/24 15:51	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/31/24 15:51	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/31/24 15:51	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/31/24 15:51	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/31/24 15:51	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/31/24 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	9.33		5.00	3.70	mg/L			10/17/24 12:51	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-25A

Lab Sample ID: 310-293033-5

Date Collected: 10/15/24 09:13

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/22/24 14:49	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/22/24 14:49	1
Benzene	<0.500		0.500	0.220	ug/L			10/22/24 14:49	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/22/24 14:49	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/22/24 14:49	1
Bromoform	<5.00		5.00	0.780	ug/L			10/22/24 14:49	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/22/24 14:49	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/22/24 14:49	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/22/24 14:49	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/22/24 14:49	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/22/24 14:49	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/22/24 14:49	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/22/24 14:49	1
Chloroform	<3.00		3.00	1.30	ug/L			10/22/24 14:49	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/22/24 14:49	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/22/24 14:49	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/22/24 14:49	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/22/24 14:49	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/22/24 14:49	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/22/24 14:49	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/22/24 14:49	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/22/24 14:49	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/22/24 14:49	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/22/24 14:49	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/22/24 14:49	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/22/24 14:49	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/22/24 14:49	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/22/24 14:49	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/22/24 14:49	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/22/24 14:49	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/22/24 14:49	1
Styrene	<1.00		1.00	0.370	ug/L			10/22/24 14:49	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/22/24 14:49	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/22/24 14:49	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/22/24 14:49	1
Toluene	<1.00		1.00	0.430	ug/L			10/22/24 14:49	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/22/24 14:49	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/22/24 14:49	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/22/24 14:49	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/22/24 14:49	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/22/24 14:49	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/22/24 14:49	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/22/24 14:49	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/22/24 14:49	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/22/24 14:49	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/22/24 14:49	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/22/24 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/22/24 14:49	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-25A

Lab Sample ID: 310-293033-5

Date Collected: 10/15/24 09:13

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/22/24 14:49	1
Toluene-d8 (Surr)	98		80 - 120		10/22/24 14:49	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/31/24 16:04	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 16:04	1
Barium	0.195		0.00200	0.000660	mg/L		10/21/24 09:30	10/31/24 16:04	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/31/24 16:04	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/31/24 16:04	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/31/24 16:04	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/21/24 09:30	10/31/24 16:04	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/31/24 16:04	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/31/24 16:04	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/21/24 09:30	10/31/24 16:04	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/31/24 16:04	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/31/24 16:04	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/31/24 16:04	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/31/24 16:04	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/31/24 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			10/18/24 07:11	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-24A

Lab Sample ID: 310-293033-6

Date Collected: 10/15/24 08:46

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0104		0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 16:06	1
Barium	0.306		0.00200	0.000660	mg/L		10/21/24 09:30	10/31/24 16:06	1
Cobalt	0.00854		0.000500	0.000170	mg/L		10/21/24 09:30	10/31/24 16:06	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/31/24 16:06	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/31/24 16:06	1
Nickel	0.00768		0.00500	0.00210	mg/L		10/21/24 09:30	10/31/24 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	20.0		3.75	2.78	mg/L			10/18/24 07:11	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-217A

Lab Sample ID: 310-293033-7

Date Collected: 10/14/24 10:44

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/22/24 15:12	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/22/24 15:12	1
Benzene	<0.500		0.500	0.220	ug/L			10/22/24 15:12	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/22/24 15:12	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/22/24 15:12	1
Bromoform	<5.00		5.00	0.780	ug/L			10/22/24 15:12	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/22/24 15:12	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/22/24 15:12	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/22/24 15:12	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/22/24 15:12	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/22/24 15:12	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/22/24 15:12	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/22/24 15:12	1
Chloroform	<3.00		3.00	1.30	ug/L			10/22/24 15:12	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/22/24 15:12	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/22/24 15:12	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/22/24 15:12	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/22/24 15:12	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/22/24 15:12	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/22/24 15:12	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/22/24 15:12	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/22/24 15:12	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/22/24 15:12	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/22/24 15:12	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/22/24 15:12	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/22/24 15:12	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/22/24 15:12	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/22/24 15:12	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/22/24 15:12	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/22/24 15:12	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/22/24 15:12	1
Styrene	<1.00		1.00	0.370	ug/L			10/22/24 15:12	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/22/24 15:12	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/22/24 15:12	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/22/24 15:12	1
Toluene	<1.00		1.00	0.430	ug/L			10/22/24 15:12	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/22/24 15:12	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/22/24 15:12	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/22/24 15:12	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/22/24 15:12	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/22/24 15:12	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/22/24 15:12	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/22/24 15:12	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/22/24 15:12	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/22/24 15:12	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/22/24 15:12	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/22/24 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/22/24 15:12	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-217A

Lab Sample ID: 310-293033-7

Date Collected: 10/14/24 10:44

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		10/22/24 15:12	1
Toluene-d8 (Surr)	97		80 - 120		10/22/24 15:12	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/31/24 16:08	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 16:08	1
Barium	0.0906		0.00200	0.000660	mg/L		10/21/24 09:30	10/31/24 16:08	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/31/24 16:08	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/31/24 16:08	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/31/24 16:08	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/21/24 09:30	10/31/24 16:08	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/31/24 16:08	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/31/24 16:08	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/21/24 09:30	10/31/24 16:08	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/31/24 16:08	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/31/24 16:08	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/31/24 16:08	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/31/24 16:08	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/31/24 16:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-1A

Lab Sample ID: 310-293033-8

Date Collected: 10/14/24 09:01

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/22/24 15:35	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/22/24 15:35	1
Benzene	<0.500		0.500	0.220	ug/L			10/22/24 15:35	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/22/24 15:35	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/22/24 15:35	1
Bromoform	<5.00		5.00	0.780	ug/L			10/22/24 15:35	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/22/24 15:35	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/22/24 15:35	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/22/24 15:35	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/22/24 15:35	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/22/24 15:35	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/22/24 15:35	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/22/24 15:35	1
Chloroform	<3.00		3.00	1.30	ug/L			10/22/24 15:35	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/22/24 15:35	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/22/24 15:35	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/22/24 15:35	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/22/24 15:35	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/22/24 15:35	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/22/24 15:35	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/22/24 15:35	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/22/24 15:35	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/22/24 15:35	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/22/24 15:35	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/22/24 15:35	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/22/24 15:35	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/22/24 15:35	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/22/24 15:35	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/22/24 15:35	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/22/24 15:35	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/22/24 15:35	1
Styrene	<1.00		1.00	0.370	ug/L			10/22/24 15:35	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/22/24 15:35	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/22/24 15:35	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/22/24 15:35	1
Toluene	<1.00		1.00	0.430	ug/L			10/22/24 15:35	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/22/24 15:35	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/22/24 15:35	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/22/24 15:35	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/22/24 15:35	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/22/24 15:35	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/22/24 15:35	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/22/24 15:35	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/22/24 15:35	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/22/24 15:35	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/22/24 15:35	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/22/24 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/22/24 15:35	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-1A

Lab Sample ID: 310-293033-8

Date Collected: 10/14/24 09:01

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/22/24 15:35	1
Toluene-d8 (Surr)	98		80 - 120		10/22/24 15:35	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/31/24 16:10	1
Arsenic	0.0115		0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 16:10	1
Barium	0.274		0.00200	0.000660	mg/L		10/21/24 09:30	10/31/24 16:10	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/31/24 16:10	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/31/24 16:10	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/31/24 16:10	1
Cobalt	0.00250		0.000500	0.000170	mg/L		10/21/24 09:30	10/31/24 16:10	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/31/24 16:10	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/31/24 16:10	1
Nickel	0.00275	J	0.00500	0.00210	mg/L		10/21/24 09:30	10/31/24 16:10	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/31/24 16:10	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/31/24 16:10	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/31/24 16:10	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/31/24 16:10	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/31/24 16:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	25.5		3.75	2.78	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-216A

Lab Sample ID: 310-293033-9

Date Collected: 10/14/24 09:28

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/22/24 15:58	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/22/24 15:58	1
Benzene	<0.500		0.500	0.220	ug/L			10/22/24 15:58	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/22/24 15:58	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/22/24 15:58	1
Bromoform	<5.00		5.00	0.780	ug/L			10/22/24 15:58	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/22/24 15:58	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/22/24 15:58	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/22/24 15:58	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/22/24 15:58	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/22/24 15:58	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/22/24 15:58	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/22/24 15:58	1
Chloroform	<3.00		3.00	1.30	ug/L			10/22/24 15:58	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/22/24 15:58	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/22/24 15:58	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/22/24 15:58	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/22/24 15:58	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/22/24 15:58	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/22/24 15:58	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/22/24 15:58	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/22/24 15:58	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/22/24 15:58	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/22/24 15:58	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/22/24 15:58	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/22/24 15:58	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/22/24 15:58	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/22/24 15:58	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/22/24 15:58	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/22/24 15:58	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/22/24 15:58	1
Styrene	<1.00		1.00	0.370	ug/L			10/22/24 15:58	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/22/24 15:58	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/22/24 15:58	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/22/24 15:58	1
Toluene	<1.00		1.00	0.430	ug/L			10/22/24 15:58	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/22/24 15:58	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/22/24 15:58	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/22/24 15:58	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/22/24 15:58	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/22/24 15:58	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/22/24 15:58	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/22/24 15:58	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/22/24 15:58	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/22/24 15:58	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/22/24 15:58	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/22/24 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		10/22/24 15:58	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-216A

Lab Sample ID: 310-293033-9

Date Collected: 10/14/24 09:28

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		10/22/24 15:58	1
Toluene-d8 (Surr)	98		80 - 120		10/22/24 15:58	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/31/24 16:13	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 16:13	1
Barium	0.0508		0.00200	0.000660	mg/L		10/21/24 09:30	10/31/24 16:13	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/31/24 16:13	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/31/24 16:13	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/31/24 16:13	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/21/24 09:30	10/31/24 16:13	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/31/24 16:13	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/31/24 16:13	1
Nickel	0.00417	J	0.00500	0.00210	mg/L		10/21/24 09:30	10/31/24 16:13	1
Selenium	0.00144	J	0.00500	0.00140	mg/L		10/21/24 09:30	10/31/24 16:13	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/31/24 16:13	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/31/24 16:13	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/31/24 16:13	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/31/24 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	6.00		1.88	1.39	mg/L			10/17/24 12:51	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-407

Lab Sample ID: 310-293033-10

Date Collected: 10/14/24 14:25

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.500		0.500	0.220	ug/L			10/22/24 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130					10/22/24 16:20	1
Toluene-d8 (Surr)	97		80 - 120					10/22/24 16:20	1
4-Bromofluorobenzene (Surr)	101		80 - 120					10/22/24 16:20	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000826	J	0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00	H	1.00	0.231	mg/L			10/31/24 19:49	1
Total Suspended Solids (USGS I-3765-85)	9.25		1.88	1.39	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-410

Lab Sample ID: 310-293033-11

Date Collected: 10/14/24 13:29

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/22/24 16:43	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/22/24 16:43	1
Benzene	<0.500		0.500	0.220	ug/L			10/22/24 16:43	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/22/24 16:43	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/22/24 16:43	1
Bromoform	<5.00		5.00	0.780	ug/L			10/22/24 16:43	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/22/24 16:43	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/22/24 16:43	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/22/24 16:43	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/22/24 16:43	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/22/24 16:43	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/22/24 16:43	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/22/24 16:43	1
Chloroform	<3.00		3.00	1.30	ug/L			10/22/24 16:43	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/22/24 16:43	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/22/24 16:43	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/22/24 16:43	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/22/24 16:43	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/22/24 16:43	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/22/24 16:43	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/22/24 16:43	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/22/24 16:43	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/22/24 16:43	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/22/24 16:43	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/22/24 16:43	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/22/24 16:43	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/22/24 16:43	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/22/24 16:43	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/22/24 16:43	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/22/24 16:43	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/22/24 16:43	1
Styrene	<1.00		1.00	0.370	ug/L			10/22/24 16:43	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/22/24 16:43	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/22/24 16:43	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/22/24 16:43	1
Toluene	<1.00		1.00	0.430	ug/L			10/22/24 16:43	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/22/24 16:43	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/22/24 16:43	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/22/24 16:43	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/22/24 16:43	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/22/24 16:43	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/22/24 16:43	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/22/24 16:43	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/22/24 16:43	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/22/24 16:43	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/22/24 16:43	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/22/24 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/22/24 16:43	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-410

Lab Sample ID: 310-293033-11

Date Collected: 10/14/24 13:29

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/22/24 16:43	1
Toluene-d8 (Surr)	97		80 - 120		10/22/24 16:43	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/31/24 16:17	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 16:17	1
Barium	0.0925		0.00200	0.000660	mg/L		10/21/24 09:30	10/31/24 16:17	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/31/24 16:17	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/31/24 16:17	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/31/24 16:17	1
Cobalt	0.000299	J	0.000500	0.000170	mg/L		10/21/24 09:30	10/31/24 16:17	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/31/24 16:17	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/31/24 16:17	1
Nickel	0.00282	J	0.00500	0.00210	mg/L		10/21/24 09:30	10/31/24 16:17	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/31/24 16:17	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/31/24 16:17	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/31/24 16:17	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/31/24 16:17	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/31/24 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	1.50	J	1.88	1.39	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-219A

Lab Sample ID: 310-293033-12

Date Collected: 10/14/24 12:45

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/20/24 00:51	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/20/24 00:51	1
Benzene	<0.500		0.500	0.220	ug/L			10/20/24 00:51	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/20/24 00:51	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/20/24 00:51	1
Bromoform	<5.00		5.00	0.780	ug/L			10/20/24 00:51	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/20/24 00:51	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/20/24 00:51	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/20/24 00:51	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/20/24 00:51	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/20/24 00:51	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/20/24 00:51	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/20/24 00:51	1
Chloroform	<3.00		3.00	1.30	ug/L			10/20/24 00:51	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/20/24 00:51	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/20/24 00:51	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/20/24 00:51	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/20/24 00:51	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/20/24 00:51	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/20/24 00:51	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/20/24 00:51	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/20/24 00:51	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/20/24 00:51	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/20/24 00:51	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/20/24 00:51	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/20/24 00:51	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/20/24 00:51	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/20/24 00:51	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/20/24 00:51	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/20/24 00:51	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/20/24 00:51	1
Styrene	<1.00		1.00	0.370	ug/L			10/20/24 00:51	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/20/24 00:51	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/20/24 00:51	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/20/24 00:51	1
Toluene	<1.00		1.00	0.430	ug/L			10/20/24 00:51	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/20/24 00:51	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/20/24 00:51	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/20/24 00:51	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/20/24 00:51	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/20/24 00:51	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/20/24 00:51	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/20/24 00:51	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/20/24 00:51	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/20/24 00:51	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/20/24 00:51	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/20/24 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/20/24 00:51	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-219A

Lab Sample ID: 310-293033-12

Date Collected: 10/14/24 12:45

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		73 - 130		10/20/24 00:51	1
Toluene-d8 (Surr)	98		80 - 120		10/20/24 00:51	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/31/24 16:19	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 16:19	1
Barium	0.607		0.00200	0.000660	mg/L		10/21/24 09:30	10/31/24 16:19	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/31/24 16:19	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/31/24 16:19	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/31/24 16:19	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/21/24 09:30	10/31/24 16:19	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/31/24 16:19	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/31/24 16:19	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/21/24 09:30	10/31/24 16:19	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/31/24 16:19	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/31/24 16:19	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/31/24 16:19	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/31/24 16:19	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/31/24 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-404

Lab Sample ID: 310-293033-13

Date Collected: 10/14/24 15:01

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/22/24 17:06	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/22/24 17:06	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/22/24 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130					10/22/24 17:06	1
Toluene-d8 (Surr)	98		80 - 120					10/22/24 17:06	1
4-Bromofluorobenzene (Surr)	101		80 - 120					10/22/24 17:06	1

Client Sample Results

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Client Sample ID: MW-2C-97

Lab Sample ID: 310-293033-14

Date Collected: 10/14/24 10:17

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 6020B - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.00581		0.000500	0.000170	mg/L		10/21/24 09:30	10/22/24 20:31	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.50		1.88	1.39	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: Dup-1

Lab Sample ID: 310-293033-15

Date Collected: 10/14/24 10:44

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/20/24 01:14	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/20/24 01:14	1
Benzene	<0.500		0.500	0.220	ug/L			10/20/24 01:14	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/20/24 01:14	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/20/24 01:14	1
Bromoform	<5.00		5.00	0.780	ug/L			10/20/24 01:14	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/20/24 01:14	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/20/24 01:14	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/20/24 01:14	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/20/24 01:14	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/20/24 01:14	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/20/24 01:14	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/20/24 01:14	1
Chloroform	<3.00		3.00	1.30	ug/L			10/20/24 01:14	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/20/24 01:14	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/20/24 01:14	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/20/24 01:14	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/20/24 01:14	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/20/24 01:14	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/20/24 01:14	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/20/24 01:14	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/20/24 01:14	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/20/24 01:14	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/20/24 01:14	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/20/24 01:14	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/20/24 01:14	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/20/24 01:14	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/20/24 01:14	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/20/24 01:14	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/20/24 01:14	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/20/24 01:14	1
Styrene	<1.00		1.00	0.370	ug/L			10/20/24 01:14	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/20/24 01:14	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/20/24 01:14	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/20/24 01:14	1
Toluene	<1.00		1.00	0.430	ug/L			10/20/24 01:14	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/20/24 01:14	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/20/24 01:14	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/20/24 01:14	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/20/24 01:14	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/20/24 01:14	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/20/24 01:14	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/20/24 01:14	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/20/24 01:14	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/20/24 01:14	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/20/24 01:14	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/20/24 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		10/20/24 01:14	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: Dup-1

Lab Sample ID: 310-293033-15

Date Collected: 10/14/24 10:44

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/20/24 01:14	1
Toluene-d8 (Surr)	97		80 - 120		10/20/24 01:14	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/30/24 14:22	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/26/24 20:42	1
Barium	0.0826		0.00200	0.000660	mg/L		10/21/24 09:30	10/26/24 20:42	1
Beryllium	0.000529	J	0.00100	0.000330	mg/L		10/21/24 09:30	10/22/24 20:46	1
Cadmium	0.000664		0.000200	0.000100	mg/L		10/21/24 09:30	10/22/24 20:46	1
Chromium	0.00190	J	0.00500	0.00120	mg/L		10/21/24 09:30	10/22/24 20:46	1
Cobalt	0.000692		0.000500	0.000170	mg/L		10/21/24 09:30	10/22/24 20:46	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/22/24 20:46	1
Lead	0.00110		0.000500	0.000260	mg/L		10/21/24 09:30	10/22/24 20:46	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/21/24 09:30	10/22/24 20:46	1
Selenium	0.00282	J	0.00500	0.00140	mg/L		10/21/24 09:30	10/22/24 20:46	1
Silver	0.00241		0.00100	0.000500	mg/L		10/21/24 09:30	10/22/24 20:46	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/30/24 14:22	1
Vanadium	0.00127	J	0.00500	0.00110	mg/L		10/21/24 09:30	10/22/24 20:46	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/22/24 20:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: Dup-2

Lab Sample ID: 310-293033-16

Date Collected: 10/11/24 11:02

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/20/24 01:36	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/20/24 01:36	1
Benzene	<0.500		0.500	0.220	ug/L			10/20/24 01:36	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/20/24 01:36	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/20/24 01:36	1
Bromoform	<5.00		5.00	0.780	ug/L			10/20/24 01:36	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/20/24 01:36	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/20/24 01:36	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/20/24 01:36	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/20/24 01:36	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/20/24 01:36	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/20/24 01:36	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/20/24 01:36	1
Chloroform	<3.00		3.00	1.30	ug/L			10/20/24 01:36	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/20/24 01:36	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/20/24 01:36	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/20/24 01:36	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/20/24 01:36	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/20/24 01:36	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/20/24 01:36	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/20/24 01:36	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/20/24 01:36	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/20/24 01:36	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/20/24 01:36	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/20/24 01:36	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/20/24 01:36	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/20/24 01:36	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/20/24 01:36	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/20/24 01:36	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/20/24 01:36	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/20/24 01:36	1
Styrene	<1.00		1.00	0.370	ug/L			10/20/24 01:36	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/20/24 01:36	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/20/24 01:36	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/20/24 01:36	1
Toluene	<1.00		1.00	0.430	ug/L			10/20/24 01:36	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/20/24 01:36	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/20/24 01:36	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/20/24 01:36	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/20/24 01:36	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/20/24 01:36	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/20/24 01:36	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/20/24 01:36	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/20/24 01:36	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/20/24 01:36	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/20/24 01:36	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/20/24 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/20/24 01:36	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: Dup-2

Lab Sample ID: 310-293033-16

Date Collected: 10/11/24 11:02

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		73 - 130		10/20/24 01:36	1
Toluene-d8 (Surr)	96		80 - 120		10/20/24 01:36	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/30/24 14:25	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/26/24 20:46	1
Barium	0.430		0.00200	0.000660	mg/L		10/21/24 09:30	10/26/24 20:46	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/22/24 20:50	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/22/24 20:50	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/22/24 20:50	1
Cobalt	0.000170	J	0.000500	0.000170	mg/L		10/21/24 09:30	10/22/24 20:50	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/22/24 20:50	1
Lead	0.000294	J	0.000500	0.000260	mg/L		10/21/24 09:30	10/22/24 20:50	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/21/24 09:30	10/22/24 20:50	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/22/24 20:50	1
Silver	0.000690	J	0.00100	0.000500	mg/L		10/21/24 09:30	10/22/24 20:50	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/30/24 14:25	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/22/24 20:50	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/22/24 20:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	21.8		1.88	1.39	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-31B

Lab Sample ID: 310-293033-17

Date Collected: 10/11/24 11:02

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/20/24 01:59	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/20/24 01:59	1
Benzene	<0.500		0.500	0.220	ug/L			10/20/24 01:59	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/20/24 01:59	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/20/24 01:59	1
Bromoform	<5.00		5.00	0.780	ug/L			10/20/24 01:59	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/20/24 01:59	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/20/24 01:59	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/20/24 01:59	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/20/24 01:59	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/20/24 01:59	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/20/24 01:59	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/20/24 01:59	1
Chloroform	<3.00		3.00	1.30	ug/L			10/20/24 01:59	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/20/24 01:59	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/20/24 01:59	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/20/24 01:59	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/20/24 01:59	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/20/24 01:59	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/20/24 01:59	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/20/24 01:59	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/20/24 01:59	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/20/24 01:59	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/20/24 01:59	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/20/24 01:59	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/20/24 01:59	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/20/24 01:59	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/20/24 01:59	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/20/24 01:59	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/20/24 01:59	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/20/24 01:59	1
Styrene	<1.00		1.00	0.370	ug/L			10/20/24 01:59	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/20/24 01:59	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/20/24 01:59	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/20/24 01:59	1
Toluene	<1.00		1.00	0.430	ug/L			10/20/24 01:59	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/20/24 01:59	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/20/24 01:59	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/20/24 01:59	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/20/24 01:59	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/20/24 01:59	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/20/24 01:59	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/20/24 01:59	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/20/24 01:59	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/20/24 01:59	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/20/24 01:59	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/20/24 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		10/20/24 01:59	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-31B

Lab Sample ID: 310-293033-17

Date Collected: 10/11/24 11:02

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		73 - 130		10/20/24 01:59	1
Toluene-d8 (Surr)	94		80 - 120		10/20/24 01:59	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/30/24 14:28	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/26/24 20:50	1
Barium	0.408		0.00200	0.000660	mg/L		10/21/24 09:30	10/26/24 20:50	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/22/24 21:09	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/22/24 21:09	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/22/24 21:09	1
Cobalt	0.000243	J	0.000500	0.000170	mg/L		10/21/24 09:30	10/22/24 21:09	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/22/24 21:09	1
Lead	0.000439	J	0.000500	0.000260	mg/L		10/21/24 09:30	10/22/24 21:09	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/21/24 09:30	10/22/24 21:09	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/22/24 21:09	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/22/24 21:09	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/30/24 14:28	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/22/24 21:09	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/22/24 21:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	36.7		2.50	1.85	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-OF

Lab Sample ID: 310-293033-18

Date Collected: 10/11/24 09:54

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/20/24 02:21	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/20/24 02:21	1
Benzene	<0.500		0.500	0.220	ug/L			10/20/24 02:21	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/20/24 02:21	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/20/24 02:21	1
Bromoform	<5.00		5.00	0.780	ug/L			10/20/24 02:21	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/20/24 02:21	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/20/24 02:21	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/20/24 02:21	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/20/24 02:21	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/20/24 02:21	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/20/24 02:21	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/20/24 02:21	1
Chloroform	<3.00		3.00	1.30	ug/L			10/20/24 02:21	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/20/24 02:21	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/20/24 02:21	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/20/24 02:21	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/20/24 02:21	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/20/24 02:21	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/20/24 02:21	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/20/24 02:21	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/20/24 02:21	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/20/24 02:21	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/20/24 02:21	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/20/24 02:21	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/20/24 02:21	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/20/24 02:21	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/20/24 02:21	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/20/24 02:21	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/20/24 02:21	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/20/24 02:21	1
Styrene	<1.00		1.00	0.370	ug/L			10/20/24 02:21	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/20/24 02:21	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/20/24 02:21	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/20/24 02:21	1
Toluene	<1.00		1.00	0.430	ug/L			10/20/24 02:21	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/20/24 02:21	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/20/24 02:21	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/20/24 02:21	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/20/24 02:21	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/20/24 02:21	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/20/24 02:21	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/20/24 02:21	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/20/24 02:21	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/20/24 02:21	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/20/24 02:21	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/20/24 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/20/24 02:21	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-OF

Lab Sample ID: 310-293033-18

Date Collected: 10/11/24 09:54

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		73 - 130		10/20/24 02:21	1
Toluene-d8 (Surr)	95		80 - 120		10/20/24 02:21	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/30/24 14:31	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/26/24 20:53	1
Barium	0.113		0.00200	0.000660	mg/L		10/21/24 09:30	10/26/24 20:53	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/22/24 21:13	1
Cadmium	0.000100	J	0.000200	0.000100	mg/L		10/21/24 09:30	10/22/24 21:13	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/22/24 21:13	1
Cobalt	0.000769		0.000500	0.000170	mg/L		10/21/24 09:30	10/22/24 21:13	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/22/24 21:13	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/22/24 21:13	1
Nickel	0.0194		0.00500	0.00210	mg/L		10/21/24 09:30	10/22/24 21:13	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/22/24 21:13	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/22/24 21:13	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/30/24 14:31	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/22/24 21:13	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/22/24 21:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-1

Lab Sample ID: 310-293033-19

Date Collected: 10/11/24 10:38

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/20/24 02:44	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/20/24 02:44	1
Benzene	<0.500		0.500	0.220	ug/L			10/20/24 02:44	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/20/24 02:44	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/20/24 02:44	1
Bromoform	<5.00		5.00	0.780	ug/L			10/20/24 02:44	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/20/24 02:44	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/20/24 02:44	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/20/24 02:44	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/20/24 02:44	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/20/24 02:44	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/20/24 02:44	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/20/24 02:44	1
Chloroform	<3.00		3.00	1.30	ug/L			10/20/24 02:44	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/20/24 02:44	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/20/24 02:44	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/20/24 02:44	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/20/24 02:44	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/20/24 02:44	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/20/24 02:44	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/20/24 02:44	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/20/24 02:44	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/20/24 02:44	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/20/24 02:44	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/20/24 02:44	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/20/24 02:44	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/20/24 02:44	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/20/24 02:44	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/20/24 02:44	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/20/24 02:44	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/20/24 02:44	1
Styrene	<1.00		1.00	0.370	ug/L			10/20/24 02:44	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/20/24 02:44	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/20/24 02:44	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/20/24 02:44	1
Toluene	<1.00		1.00	0.430	ug/L			10/20/24 02:44	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/20/24 02:44	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/20/24 02:44	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/20/24 02:44	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/20/24 02:44	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/20/24 02:44	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/20/24 02:44	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/20/24 02:44	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/20/24 02:44	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/20/24 02:44	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/20/24 02:44	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/20/24 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		10/20/24 02:44	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-1

Lab Sample ID: 310-293033-19

Date Collected: 10/11/24 10:38

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/20/24 02:44	1
Toluene-d8 (Surr)	96		80 - 120		10/20/24 02:44	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/30/24 14:34	1
Arsenic	0.00668		0.00200	0.000530	mg/L		10/21/24 09:30	10/26/24 20:57	1
Barium	0.480		0.00200	0.000660	mg/L		10/21/24 09:30	10/26/24 20:57	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/22/24 21:17	1
Cadmium	0.000134 J		0.000200	0.000100	mg/L		10/21/24 09:30	10/22/24 21:17	1
Chromium	0.0126		0.00500	0.00120	mg/L		10/21/24 09:30	10/22/24 21:17	1
Cobalt	0.0179		0.000500	0.000170	mg/L		10/21/24 09:30	10/22/24 21:17	1
Copper	0.00956		0.00500	0.00180	mg/L		10/21/24 09:30	10/22/24 21:17	1
Lead	0.00597		0.000500	0.000260	mg/L		10/21/24 09:30	10/22/24 21:17	1
Nickel	0.0143		0.00500	0.00210	mg/L		10/21/24 09:30	10/22/24 21:17	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/22/24 21:17	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/22/24 21:17	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/30/24 14:34	1
Vanadium	0.0210		0.00500	0.00110	mg/L		10/21/24 09:30	10/22/24 21:17	1
Zinc	0.0291		0.0200	0.00970	mg/L		10/21/24 09:30	10/22/24 21:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	4570		150	111	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-4

Lab Sample ID: 310-293033-20

Date Collected: 10/11/24 10:01

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/20/24 03:07	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/20/24 03:07	1
Benzene	<0.500		0.500	0.220	ug/L			10/20/24 03:07	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/20/24 03:07	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/20/24 03:07	1
Bromoform	<5.00		5.00	0.780	ug/L			10/20/24 03:07	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/20/24 03:07	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/20/24 03:07	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/20/24 03:07	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/20/24 03:07	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/20/24 03:07	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/20/24 03:07	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/20/24 03:07	1
Chloroform	<3.00		3.00	1.30	ug/L			10/20/24 03:07	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/20/24 03:07	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/20/24 03:07	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/20/24 03:07	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/20/24 03:07	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/20/24 03:07	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/20/24 03:07	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/20/24 03:07	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/20/24 03:07	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/20/24 03:07	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/20/24 03:07	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/20/24 03:07	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/20/24 03:07	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/20/24 03:07	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/20/24 03:07	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/20/24 03:07	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/20/24 03:07	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/20/24 03:07	1
Styrene	<1.00		1.00	0.370	ug/L			10/20/24 03:07	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/20/24 03:07	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/20/24 03:07	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/20/24 03:07	1
Toluene	<1.00		1.00	0.430	ug/L			10/20/24 03:07	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/20/24 03:07	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/20/24 03:07	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/20/24 03:07	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/20/24 03:07	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/20/24 03:07	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/20/24 03:07	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/20/24 03:07	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/20/24 03:07	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/20/24 03:07	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/20/24 03:07	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/20/24 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		10/20/24 03:07	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-4

Lab Sample ID: 310-293033-20

Date Collected: 10/11/24 10:01

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/20/24 03:07	1
Toluene-d8 (Surr)	96		80 - 120		10/20/24 03:07	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/30/24 14:36	1
Arsenic	0.00208		0.00200	0.000530	mg/L		10/21/24 09:30	10/26/24 21:01	1
Barium	0.132		0.00200	0.000660	mg/L		10/21/24 09:30	10/26/24 21:01	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/22/24 21:21	1
Cadmium	0.000203		0.000200	0.000100	mg/L		10/21/24 09:30	10/22/24 21:21	1
Chromium	0.00469 J		0.00500	0.00120	mg/L		10/21/24 09:30	10/22/24 21:21	1
Cobalt	0.00511		0.000500	0.000170	mg/L		10/21/24 09:30	10/22/24 21:21	1
Copper	0.00458 J		0.00500	0.00180	mg/L		10/21/24 09:30	10/22/24 21:21	1
Lead	0.00269		0.000500	0.000260	mg/L		10/21/24 09:30	10/22/24 21:21	1
Nickel	0.0336		0.00500	0.00210	mg/L		10/21/24 09:30	10/22/24 21:21	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/22/24 21:21	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/22/24 21:21	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/30/24 14:36	1
Vanadium	0.00827		0.00500	0.00110	mg/L		10/21/24 09:30	10/22/24 21:21	1
Zinc	0.0172 J		0.0200	0.00970	mg/L		10/21/24 09:30	10/22/24 21:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	566		30.0	22.2	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-2

Lab Sample ID: 310-293033-21

Date Collected: 10/11/24 10:23

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/20/24 03:29	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/20/24 03:29	1
Benzene	<0.500		0.500	0.220	ug/L			10/20/24 03:29	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/20/24 03:29	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/20/24 03:29	1
Bromoform	<5.00		5.00	0.780	ug/L			10/20/24 03:29	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/20/24 03:29	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/20/24 03:29	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/20/24 03:29	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/20/24 03:29	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/20/24 03:29	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/20/24 03:29	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/20/24 03:29	1
Chloroform	<3.00		3.00	1.30	ug/L			10/20/24 03:29	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/20/24 03:29	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/20/24 03:29	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/20/24 03:29	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/20/24 03:29	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/20/24 03:29	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/20/24 03:29	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/20/24 03:29	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/20/24 03:29	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/20/24 03:29	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/20/24 03:29	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/20/24 03:29	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/20/24 03:29	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/20/24 03:29	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/20/24 03:29	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/20/24 03:29	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/20/24 03:29	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/20/24 03:29	1
Styrene	<1.00		1.00	0.370	ug/L			10/20/24 03:29	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/20/24 03:29	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/20/24 03:29	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/20/24 03:29	1
Toluene	<1.00		1.00	0.430	ug/L			10/20/24 03:29	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/20/24 03:29	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/20/24 03:29	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/20/24 03:29	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/20/24 03:29	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/20/24 03:29	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/20/24 03:29	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/20/24 03:29	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/20/24 03:29	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/20/24 03:29	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/20/24 03:29	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/20/24 03:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		10/20/24 03:29	1

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Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-2

Lab Sample ID: 310-293033-21

Date Collected: 10/11/24 10:23

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		73 - 130		10/20/24 03:29	1
Toluene-d8 (Surr)	95		80 - 120		10/20/24 03:29	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/30/24 14:39	1
Arsenic	0.0126		0.00200	0.000530	mg/L		10/21/24 09:30	10/26/24 21:04	1
Barium	0.205		0.00200	0.000660	mg/L		10/21/24 09:30	10/26/24 21:04	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/22/24 21:24	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/22/24 21:24	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/22/24 21:24	1
Cobalt	0.00192		0.000500	0.000170	mg/L		10/21/24 09:30	10/22/24 21:24	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/22/24 21:24	1
Lead	0.000334	J	0.000500	0.000260	mg/L		10/21/24 09:30	10/22/24 21:24	1
Nickel	0.00250	J	0.00500	0.00210	mg/L		10/21/24 09:30	10/22/24 21:24	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/22/24 21:24	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/22/24 21:24	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/30/24 14:39	1
Vanadium	0.00121	J	0.00500	0.00110	mg/L		10/21/24 09:30	10/22/24 21:24	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/22/24 21:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	83.0		15.0	11.1	mg/L			10/17/24 12:51	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-3

Lab Sample ID: 310-293033-22

Date Collected: 10/11/24 10:15

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/20/24 03:52	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/20/24 03:52	1
Benzene	<0.500		0.500	0.220	ug/L			10/20/24 03:52	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/20/24 03:52	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/20/24 03:52	1
Bromoform	<5.00		5.00	0.780	ug/L			10/20/24 03:52	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/20/24 03:52	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/20/24 03:52	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/20/24 03:52	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/20/24 03:52	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/20/24 03:52	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/20/24 03:52	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/20/24 03:52	1
Chloroform	<3.00		3.00	1.30	ug/L			10/20/24 03:52	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/20/24 03:52	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/20/24 03:52	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/20/24 03:52	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/20/24 03:52	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/20/24 03:52	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/20/24 03:52	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/20/24 03:52	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/20/24 03:52	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/20/24 03:52	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/20/24 03:52	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/20/24 03:52	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/20/24 03:52	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/20/24 03:52	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/20/24 03:52	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/20/24 03:52	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/20/24 03:52	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/20/24 03:52	1
Styrene	<1.00		1.00	0.370	ug/L			10/20/24 03:52	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/20/24 03:52	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/20/24 03:52	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/20/24 03:52	1
Toluene	<1.00		1.00	0.430	ug/L			10/20/24 03:52	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/20/24 03:52	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/20/24 03:52	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/20/24 03:52	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/20/24 03:52	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/20/24 03:52	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/20/24 03:52	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/20/24 03:52	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/20/24 03:52	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/20/24 03:52	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/20/24 03:52	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/20/24 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		10/20/24 03:52	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-3

Lab Sample ID: 310-293033-22

Date Collected: 10/11/24 10:15

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		73 - 130		10/20/24 03:52	1
Toluene-d8 (Surr)	96		80 - 120		10/20/24 03:52	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/30/24 14:43	1
Arsenic	0.0349		0.00200	0.000530	mg/L		10/21/24 09:30	10/26/24 21:08	1
Barium	0.544		0.00200	0.000660	mg/L		10/21/24 09:30	10/26/24 21:08	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/22/24 21:28	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/22/24 21:28	1
Chromium	0.00361	J	0.00500	0.00120	mg/L		10/21/24 09:30	10/22/24 21:28	1
Cobalt	0.00456		0.000500	0.000170	mg/L		10/21/24 09:30	10/22/24 21:28	1
Copper	0.00320	J	0.00500	0.00180	mg/L		10/21/24 09:30	10/22/24 21:28	1
Lead	0.00162		0.000500	0.000260	mg/L		10/21/24 09:30	10/22/24 21:28	1
Nickel	0.00710		0.00500	0.00210	mg/L		10/21/24 09:30	10/22/24 21:28	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/22/24 21:28	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/22/24 21:28	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/30/24 14:43	1
Vanadium	0.00703		0.00500	0.00110	mg/L		10/21/24 09:30	10/22/24 21:28	1
Zinc	0.0115	J	0.0200	0.00970	mg/L		10/21/24 09:30	10/22/24 21:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	158		15.0	11.1	mg/L			10/17/24 12:51	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-293033-23

Date Collected: 10/15/24 00:00

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/19/24 20:42	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/19/24 20:42	1
Benzene	<0.500		0.500	0.220	ug/L			10/19/24 20:42	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/19/24 20:42	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/19/24 20:42	1
Bromoform	<5.00		5.00	0.780	ug/L			10/19/24 20:42	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/19/24 20:42	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/19/24 20:42	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/19/24 20:42	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/19/24 20:42	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/19/24 20:42	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/19/24 20:42	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/19/24 20:42	1
Chloroform	<3.00		3.00	1.30	ug/L			10/19/24 20:42	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/19/24 20:42	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/19/24 20:42	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/19/24 20:42	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/19/24 20:42	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/19/24 20:42	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/19/24 20:42	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/19/24 20:42	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/19/24 20:42	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/19/24 20:42	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/19/24 20:42	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/19/24 20:42	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/19/24 20:42	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/19/24 20:42	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/19/24 20:42	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/19/24 20:42	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/19/24 20:42	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/19/24 20:42	1
Styrene	<1.00		1.00	0.370	ug/L			10/19/24 20:42	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/19/24 20:42	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/19/24 20:42	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/19/24 20:42	1
Toluene	<1.00		1.00	0.430	ug/L			10/19/24 20:42	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/19/24 20:42	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/19/24 20:42	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/19/24 20:42	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/19/24 20:42	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/19/24 20:42	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/19/24 20:42	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/19/24 20:42	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/19/24 20:42	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/19/24 20:42	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/19/24 20:42	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/19/24 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		10/19/24 20:42	1

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Client Sample Results

Client: HDR Inc

Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: Trip Blank 1

Date Collected: 10/15/24 00:00

Date Received: 10/16/24 16:15

Lab Sample ID: 310-293033-23

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		73 - 130		10/19/24 20:42	1
Toluene-d8 (Surr)	96		80 - 120		10/19/24 20:42	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-293033-24

Date Collected: 10/15/24 00:00

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/19/24 21:05	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/19/24 21:05	1
Benzene	<0.500		0.500	0.220	ug/L			10/19/24 21:05	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/19/24 21:05	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/19/24 21:05	1
Bromoform	<5.00		5.00	0.780	ug/L			10/19/24 21:05	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/19/24 21:05	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/19/24 21:05	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/19/24 21:05	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/19/24 21:05	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/19/24 21:05	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/19/24 21:05	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/19/24 21:05	1
Chloroform	<3.00		3.00	1.30	ug/L			10/19/24 21:05	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/19/24 21:05	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/19/24 21:05	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/19/24 21:05	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/19/24 21:05	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/19/24 21:05	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/19/24 21:05	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/19/24 21:05	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/19/24 21:05	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/19/24 21:05	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/19/24 21:05	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/19/24 21:05	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/19/24 21:05	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/19/24 21:05	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/19/24 21:05	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/19/24 21:05	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/19/24 21:05	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/19/24 21:05	1
Styrene	<1.00		1.00	0.370	ug/L			10/19/24 21:05	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/19/24 21:05	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/19/24 21:05	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/19/24 21:05	1
Toluene	<1.00		1.00	0.430	ug/L			10/19/24 21:05	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/19/24 21:05	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/19/24 21:05	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/19/24 21:05	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/19/24 21:05	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/19/24 21:05	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/19/24 21:05	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/19/24 21:05	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/19/24 21:05	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/19/24 21:05	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/19/24 21:05	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/19/24 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		10/19/24 21:05	1

Eurofins Cedar Falls

Client Sample Results

Client: HDR Inc

Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: Trip Blank 2

Date Collected: 10/15/24 00:00

Date Received: 10/16/24 16:15

Lab Sample ID: 310-293033-24

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/19/24 21:05	1
Toluene-d8 (Surr)	96		80 - 120		10/19/24 21:05	1

Client Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: Trip Blank 3

Lab Sample ID: 310-293033-25

Date Collected: 10/15/24 00:00

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/19/24 21:27	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/19/24 21:27	1
Benzene	<0.500		0.500	0.220	ug/L			10/19/24 21:27	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/19/24 21:27	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/19/24 21:27	1
Bromoform	<5.00		5.00	0.780	ug/L			10/19/24 21:27	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/19/24 21:27	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/19/24 21:27	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/19/24 21:27	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/19/24 21:27	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/19/24 21:27	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/19/24 21:27	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/19/24 21:27	1
Chloroform	<3.00		3.00	1.30	ug/L			10/19/24 21:27	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/19/24 21:27	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/19/24 21:27	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/19/24 21:27	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/19/24 21:27	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/19/24 21:27	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/19/24 21:27	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/19/24 21:27	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/19/24 21:27	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/19/24 21:27	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/19/24 21:27	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/19/24 21:27	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/19/24 21:27	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/19/24 21:27	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/19/24 21:27	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/19/24 21:27	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/19/24 21:27	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/19/24 21:27	1
Styrene	<1.00		1.00	0.370	ug/L			10/19/24 21:27	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/19/24 21:27	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/19/24 21:27	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/19/24 21:27	1
Toluene	<1.00		1.00	0.430	ug/L			10/19/24 21:27	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/19/24 21:27	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/19/24 21:27	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/19/24 21:27	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/19/24 21:27	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/19/24 21:27	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/19/24 21:27	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/19/24 21:27	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/19/24 21:27	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/19/24 21:27	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/19/24 21:27	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/19/24 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/19/24 21:27	1

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Client Sample Results

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Client Sample ID: Trip Blank 3

Lab Sample ID: 310-293033-25

Date Collected: 10/15/24 00:00

Matrix: Water

Date Received: 10/16/24 16:15

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/19/24 21:27	1
Toluene-d8 (Surr)	96		80 - 120		10/19/24 21:27	1

Definitions/Glossary

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Qualifiers

Metals

Qualifier	Qualifier Description
^~	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	TOL
		(80-120)	(73-130)	(80-120)
310-293033-1	MW-218A	99	101	97
310-293033-1 MS	MW-218A	99	100	99
310-293033-1 MSD	MW-218A	98	100	99
310-293033-2	MW-220A	100	101	98
310-293033-4	MW-2A-97	100	101	98
310-293033-5	MW-25A	99	101	98
310-293033-7	MW-217A	99	102	97
310-293033-8	MW-1A	100	101	98
310-293033-9	MW-216A	101	102	98
310-293033-10	MW-407	101	102	97
310-293033-11	MW-410	100	101	97
310-293033-12	MW-219A	99	103	98
310-293033-13	MW-404	101	101	98
310-293033-15	Dup-1	97	101	97
310-293033-16	Dup-2	100	100	96
310-293033-17	MW-31B	97	100	94
310-293033-18	WT-OF	99	104	95
310-293033-19	WT-1	98	101	96
310-293033-20	WT-4	98	101	96
310-293033-21	WT-2	101	100	95
310-293033-22	WT-3	97	106	96
310-293033-23	Trip Blank 1	102	99	96
310-293033-24	Trip Blank 2	99	101	96
310-293033-25	Trip Blank 3	100	101	96
LCS 310-436794/6	Lab Control Sample	102	99	100
LCS 310-436794/7	Lab Control Sample	98	106	95
LCS 310-436944/6	Lab Control Sample	98	100	100
LCS 310-436944/7	Lab Control Sample	99	102	98
MB 310-436794/5	Method Blank	100	100	96
MB 310-436944/5	Method Blank	100	101	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-436794/5

Matrix: Water

Analysis Batch: 436794

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/19/24 19:34	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/19/24 19:34	1
Benzene	<0.500		0.500	0.220	ug/L			10/19/24 19:34	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/19/24 19:34	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/19/24 19:34	1
Bromoform	<5.00		5.00	0.780	ug/L			10/19/24 19:34	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/19/24 19:34	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/19/24 19:34	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/19/24 19:34	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/19/24 19:34	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/19/24 19:34	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/19/24 19:34	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/19/24 19:34	1
Chloroform	<3.00		3.00	1.30	ug/L			10/19/24 19:34	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/19/24 19:34	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/19/24 19:34	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/19/24 19:34	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/19/24 19:34	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/19/24 19:34	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/19/24 19:34	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/19/24 19:34	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/19/24 19:34	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/19/24 19:34	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/19/24 19:34	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/19/24 19:34	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/19/24 19:34	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/19/24 19:34	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/19/24 19:34	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/19/24 19:34	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/19/24 19:34	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/19/24 19:34	1
Styrene	<1.00		1.00	0.370	ug/L			10/19/24 19:34	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/19/24 19:34	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/19/24 19:34	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/19/24 19:34	1
Toluene	<1.00		1.00	0.430	ug/L			10/19/24 19:34	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/19/24 19:34	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/19/24 19:34	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/19/24 19:34	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/19/24 19:34	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/19/24 19:34	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/19/24 19:34	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/19/24 19:34	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/19/24 19:34	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/19/24 19:34	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/19/24 19:34	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/19/24 19:34	1

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-436794/5

Matrix: Water

Analysis Batch: 436794

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/19/24 19:34	1
Dibromofluoromethane (Surr)	100		73 - 130		10/19/24 19:34	1
Toluene-d8 (Surr)	96		80 - 120		10/19/24 19:34	1

Lab Sample ID: LCS 310-436794/6

Matrix: Water

Analysis Batch: 436794

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	38.41		ug/L		96	50 - 150
Acrylonitrile	200	227.2		ug/L		114	50 - 150
Benzene	20.0	23.17		ug/L		116	72 - 124
Bromochloromethane	20.0	20.74		ug/L		104	73 - 130
Bromodichloromethane	20.0	19.84		ug/L		99	74 - 122
Bromoform	20.0	17.20		ug/L		86	61 - 122
2-Butanone (MEK)	40.0	39.99		ug/L		100	50 - 150
Carbon disulfide	20.0	25.08		ug/L		125	59 - 135
Carbon tetrachloride	20.0	22.74		ug/L		114	67 - 132
Chlorobenzene	20.0	19.10		ug/L		96	76 - 120
Chlorodibromomethane	20.0	19.40		ug/L		97	71 - 121
Chloroform	20.0	20.81		ug/L		104	72 - 125
cis-1,2-Dichloroethene	20.0	20.91		ug/L		105	74 - 123
cis-1,3-Dichloropropene	20.0	20.30		ug/L		101	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.04		ug/L		95	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.08		ug/L		95	75 - 125
Dibromomethane	20.0	20.94		ug/L		105	74 - 125
1,2-Dichlorobenzene	20.0	19.00		ug/L		95	74 - 120
1,4-Dichlorobenzene	20.0	18.68		ug/L		93	72 - 120
1,1-Dichloroethane	20.0	24.56		ug/L		123	70 - 127
1,2-Dichloroethane	20.0	20.53		ug/L		103	71 - 125
1,1-Dichloroethene	20.0	25.09		ug/L		125	63 - 132
1,2-Dichloropropane	20.0	23.71		ug/L		119	73 - 124
Ethylbenzene	20.0	20.39		ug/L		102	74 - 122
2-Hexanone	40.0	39.46		ug/L		99	60 - 140
Iodomethane	20.0	24.63		ug/L		123	10 - 150
Methylene Chloride	20.0	23.72		ug/L		119	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	38.09		ug/L		95	60 - 139
Styrene	20.0	19.57		ug/L		98	74 - 121
1,1,1,2-Tetrachloroethane	20.0	18.47		ug/L		92	71 - 120
1,1,2,2-Tetrachloroethane	20.0	19.99		ug/L		100	68 - 124
Tetrachloroethene	20.0	20.15		ug/L		101	71 - 130
Toluene	20.0	20.34		ug/L		102	74 - 123
trans-1,4-Dichloro-2-butene	20.0	16.10		ug/L		80	50 - 150
trans-1,2-Dichloroethene	20.0	22.29		ug/L		111	70 - 126
trans-1,3-Dichloropropene	20.0	18.24		ug/L		91	69 - 123
1,1,1-Trichloroethane	20.0	22.22		ug/L		111	73 - 129
1,1,2-Trichloroethane	20.0	20.60		ug/L		103	73 - 123
Trichloroethene	20.0	21.03		ug/L		105	72 - 126

Eurofins Cedar Falls

QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-436794/6

Matrix: Water

Analysis Batch: 436794

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	19.79		ug/L		99	65 - 127
Vinyl acetate	40.0	39.54		ug/L		99	50 - 150
Xylenes, Total	40.0	39.58		ug/L		99	73 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	99		73 - 130
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCS 310-436794/7

Matrix: Water

Analysis Batch: 436794

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	21.81		ug/L		109	23 - 150
Chloroethane	20.0	21.05		ug/L		105	54 - 136
Chloromethane	20.0	21.33		ug/L		107	38 - 150
Trichlorofluoromethane	20.0	20.40		ug/L		102	54 - 149
Vinyl chloride	20.0	21.36		ug/L		107	56 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	106		73 - 130
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: MB 310-436944/5

Matrix: Water

Analysis Batch: 436944

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/22/24 10:16	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			10/22/24 10:16	1
Benzene	<0.500		0.500	0.220	ug/L			10/22/24 10:16	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/22/24 10:16	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/22/24 10:16	1
Bromoform	<5.00		5.00	0.780	ug/L			10/22/24 10:16	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/22/24 10:16	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/22/24 10:16	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/22/24 10:16	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/22/24 10:16	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/22/24 10:16	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/22/24 10:16	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/22/24 10:16	1
Chloroform	<3.00		3.00	1.30	ug/L			10/22/24 10:16	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/22/24 10:16	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/22/24 10:16	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/22/24 10:16	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/22/24 10:16	1

Eurofins Cedar Falls

QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-436944/5

Matrix: Water

Analysis Batch: 436944

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/22/24 10:16	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/22/24 10:16	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/22/24 10:16	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/22/24 10:16	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/22/24 10:16	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/22/24 10:16	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/22/24 10:16	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/22/24 10:16	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/22/24 10:16	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/22/24 10:16	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/22/24 10:16	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/22/24 10:16	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/22/24 10:16	1
Styrene	<1.00		1.00	0.370	ug/L			10/22/24 10:16	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/22/24 10:16	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/22/24 10:16	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/22/24 10:16	1
Toluene	<1.00		1.00	0.430	ug/L			10/22/24 10:16	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/22/24 10:16	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/22/24 10:16	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/22/24 10:16	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/22/24 10:16	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/22/24 10:16	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/22/24 10:16	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/22/24 10:16	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/22/24 10:16	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/22/24 10:16	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/22/24 10:16	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/22/24 10:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/22/24 10:16	1
Dibromofluoromethane (Surr)	101		73 - 130		10/22/24 10:16	1
Toluene-d8 (Surr)	98		80 - 120		10/22/24 10:16	1

Lab Sample ID: LCS 310-436944/6

Matrix: Water

Analysis Batch: 436944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	38.00		ug/L		95	50 - 150
Acrylonitrile	200	202.3		ug/L		101	50 - 150
Benzene	20.0	19.34		ug/L		97	72 - 124
Bromochloromethane	20.0	20.53		ug/L		103	73 - 130
Bromodichloromethane	20.0	19.46		ug/L		97	74 - 122
Bromoform	20.0	19.23		ug/L		96	61 - 122
2-Butanone (MEK)	40.0	37.86		ug/L		95	50 - 150
Carbon disulfide	20.0	19.01		ug/L		95	59 - 135

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-436944/6

Matrix: Water

Analysis Batch: 436944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	20.0	19.19		ug/L		96	67 - 132
Chlorobenzene	20.0	19.53		ug/L		98	76 - 120
Chlorodibromomethane	20.0	19.61		ug/L		98	71 - 121
Chloroform	20.0	18.59		ug/L		93	72 - 125
cis-1,2-Dichloroethene	20.0	19.44		ug/L		97	74 - 123
cis-1,3-Dichloropropene	20.0	19.00		ug/L		95	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.74		ug/L		99	50 - 150
1,2-Dibromoethane (EDB)	20.0	20.82		ug/L		104	75 - 125
Dibromomethane	20.0	19.97		ug/L		100	74 - 125
1,2-Dichlorobenzene	20.0	19.85		ug/L		99	74 - 120
1,4-Dichlorobenzene	20.0	19.65		ug/L		98	72 - 120
1,1-Dichloroethane	20.0	19.12		ug/L		96	70 - 127
1,2-Dichloroethane	20.0	19.59		ug/L		98	71 - 125
1,1-Dichloroethene	20.0	19.11		ug/L		96	63 - 132
1,2-Dichloropropane	20.0	19.25		ug/L		96	73 - 124
Ethylbenzene	20.0	19.83		ug/L		99	74 - 122
2-Hexanone	40.0	39.21		ug/L		98	60 - 140
Iodomethane	20.0	11.36		ug/L		57	10 - 150
Methylene Chloride	20.0	19.87		ug/L		99	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	39.78		ug/L		99	60 - 139
Styrene	20.0	20.40		ug/L		102	74 - 121
1,1,1,2-Tetrachloroethane	20.0	19.49		ug/L		97	71 - 120
1,1,2,2-Tetrachloroethane	20.0	20.30		ug/L		101	68 - 124
Tetrachloroethene	20.0	19.84		ug/L		99	71 - 130
Toluene	20.0	19.35		ug/L		97	74 - 123
trans-1,4-Dichloro-2-butene	20.0	16.54		ug/L		83	50 - 150
trans-1,2-Dichloroethene	20.0	19.36		ug/L		97	70 - 126
trans-1,3-Dichloropropene	20.0	18.92		ug/L		95	69 - 123
1,1,1-Trichloroethane	20.0	19.33		ug/L		97	73 - 129
1,1,2-Trichloroethane	20.0	20.19		ug/L		101	73 - 123
Trichloroethene	20.0	19.65		ug/L		98	72 - 126
1,2,3-Trichloropropane	20.0	19.90		ug/L		100	65 - 127
Vinyl acetate	40.0	37.42		ug/L		94	50 - 150
Xylenes, Total	40.0	39.56		ug/L		99	73 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	100		73 - 130
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCS 310-436944/7

Matrix: Water

Analysis Batch: 436944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.77		ug/L		74	23 - 150
Chloroethane	20.0	17.58		ug/L		88	54 - 136
Chloromethane	20.0	17.72		ug/L		89	38 - 150

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-436944/7

Matrix: Water

Analysis Batch: 436944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane	20.0	19.98		ug/L		100	54 - 149
Vinyl chloride	20.0	18.26		ug/L		91	56 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	102		73 - 130
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: 310-293033-1 MS

Matrix: Water

Analysis Batch: 436944

Client Sample ID: MW-218A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	<10.0		40.0	34.69		ug/L		87	31 - 150
Acrylonitrile	<5.00		200	182.1		ug/L		91	40 - 150
Benzene	<0.500		20.0	18.34		ug/L		92	46 - 130
Bromochloromethane	<5.00		20.0	19.30		ug/L		96	57 - 130
Bromodichloromethane	<1.00		20.0	18.14		ug/L		91	57 - 130
Bromoform	<5.00		20.0	17.97		ug/L		90	44 - 130
2-Butanone (MEK)	<10.0		40.0	33.28		ug/L		83	38 - 150
Carbon disulfide	<1.00		20.0	18.44		ug/L		92	38 - 135
Carbon tetrachloride	<2.00		20.0	17.20		ug/L		86	45 - 132
Chlorobenzene	<1.00		20.0	18.16		ug/L		91	59 - 130
Chlorodibromomethane	<5.00		20.0	17.93		ug/L		90	54 - 130
Chloroform	<3.00		20.0	17.63		ug/L		88	51 - 130
cis-1,2-Dichloroethene	<1.00		20.0	18.43		ug/L		92	45 - 130
cis-1,3-Dichloropropene	<5.00		20.0	16.86		ug/L		84	53 - 130
1,2-Dibromo-3-Chloropropane	<1.20		20.0	18.47		ug/L		92	38 - 150
1,2-Dibromoethane (EDB)	<0.340		20.0	18.53		ug/L		93	60 - 130
Dibromomethane	<1.00		20.0	18.44		ug/L		92	59 - 130
1,2-Dichlorobenzene	<1.00		20.0	19.10		ug/L		96	59 - 130
1,4-Dichlorobenzene	<1.00		20.0	18.55		ug/L		93	57 - 130
1,1-Dichloroethane	<1.00		20.0	18.07		ug/L		90	49 - 130
1,2-Dichloroethane	<1.00		20.0	18.18		ug/L		91	51 - 130
1,1-Dichloroethene	<2.00		20.0	17.81		ug/L		89	37 - 132
1,2-Dichloropropane	<1.00		20.0	17.90		ug/L		89	57 - 130
Ethylbenzene	<1.00		20.0	18.24		ug/L		91	45 - 130
2-Hexanone	<10.0		40.0	35.71		ug/L		89	46 - 140
Iodomethane	<10.0		20.0	11.22		ug/L		56	10 - 150
Methylene Chloride	<5.00		20.0	18.36		ug/L		92	37 - 150
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	35.87		ug/L		90	47 - 139
Styrene	<1.00		20.0	18.91		ug/L		95	47 - 130
1,1,1,2-Tetrachloroethane	<1.00		20.0	18.05		ug/L		90	55 - 130
1,1,1,2,2-Tetrachloroethane	<1.00		20.0	19.57		ug/L		98	54 - 130
Tetrachloroethene	<1.00		20.0	17.51		ug/L		88	47 - 130
Toluene	<1.00		20.0	18.01		ug/L		90	51 - 130
trans-1,4-Dichloro-2-butene	<10.0		20.0	14.90		ug/L		74	26 - 150
trans-1,2-Dichloroethene	<1.00		20.0	18.29		ug/L		91	48 - 130

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-293033-1 MS

Matrix: Water

Analysis Batch: 436944

Client Sample ID: MW-218A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	<5.00		20.0	16.63		ug/L		83	50 - 130
1,1,1-Trichloroethane	<1.00		20.0	17.44		ug/L		87	52 - 130
1,1,2-Trichloroethane	<1.00		20.0	18.40		ug/L		92	58 - 130
Trichloroethene	<1.00		20.0	18.06		ug/L		90	51 - 130
1,2,3-Trichloropropane	<1.00		20.0	18.72		ug/L		94	49 - 130
Vinyl acetate	<10.0		40.0	29.84		ug/L		75	29 - 150
Xylenes, Total	<3.00		40.0	36.88		ug/L		92	43 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	100		73 - 130
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 310-293033-1 MSD

Matrix: Water

Analysis Batch: 436944

Client Sample ID: MW-218A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<10.0		40.0	34.59		ug/L		86	31 - 150	0	29
Acrylonitrile	<5.00		20.0	183.9		ug/L		92	40 - 150	1	20
Benzene	<0.500		20.0	18.10		ug/L		91	46 - 130	1	20
Bromochloromethane	<5.00		20.0	19.31		ug/L		97	57 - 130	0	20
Bromodichloromethane	<1.00		20.0	18.10		ug/L		91	57 - 130	0	20
Bromoform	<5.00		20.0	18.04		ug/L		90	44 - 130	0	20
2-Butanone (MEK)	<10.0		40.0	34.04		ug/L		85	38 - 150	2	20
Carbon disulfide	<1.00		20.0	17.47		ug/L		87	38 - 135	5	30
Carbon tetrachloride	<2.00		20.0	17.15		ug/L		86	45 - 132	0	20
Chlorobenzene	<1.00		20.0	18.18		ug/L		91	59 - 130	0	20
Chlorodibromomethane	<5.00		20.0	17.95		ug/L		90	54 - 130	0	20
Chloroform	<3.00		20.0	17.58		ug/L		88	51 - 130	0	20
cis-1,2-Dichloroethene	<1.00		20.0	18.34		ug/L		92	45 - 130	1	20
cis-1,3-Dichloropropene	<5.00		20.0	16.94		ug/L		85	53 - 130	0	20
1,2-Dibromo-3-Chloropropane	<1.20		20.0	18.61		ug/L		93	38 - 150	1	20
1,2-Dibromoethane (EDB)	<0.340		20.0	18.44		ug/L		92	60 - 130	0	20
Dibromomethane	<1.00		20.0	18.53		ug/L		93	59 - 130	0	20
1,2-Dichlorobenzene	<1.00		20.0	19.14		ug/L		96	59 - 130	0	20
1,4-Dichlorobenzene	<1.00		20.0	18.77		ug/L		94	57 - 130	1	20
1,1-Dichloroethane	<1.00		20.0	18.05		ug/L		90	49 - 130	0	20
1,2-Dichloroethane	<1.00		20.0	17.98		ug/L		90	51 - 130	1	20
1,1-Dichloroethene	<2.00		20.0	17.50		ug/L		87	37 - 132	2	26
1,2-Dichloropropane	<1.00		20.0	17.83		ug/L		89	57 - 130	0	20
Ethylbenzene	<1.00		20.0	18.12		ug/L		91	45 - 130	1	20
2-Hexanone	<10.0		40.0	36.16		ug/L		90	46 - 140	1	20
Iodomethane	<10.0		20.0	12.29		ug/L		61	10 - 150	9	35
Methylene Chloride	<5.00		20.0	18.57		ug/L		93	37 - 150	1	24
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	36.11		ug/L		90	47 - 139	1	20
Styrene	<1.00		20.0	18.92		ug/L		95	47 - 130	0	20
1,1,1,2-Tetrachloroethane	<1.00		20.0	18.18		ug/L		91	55 - 130	1	20

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-293033-1 MSD

Matrix: Water

Analysis Batch: 436944

Client Sample ID: MW-218A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	<1.00		20.0	19.77		ug/L		99	54 - 130	1	20
Tetrachloroethene	<1.00		20.0	17.57		ug/L		88	47 - 130	0	20
Toluene	<1.00		20.0	17.67		ug/L		88	51 - 130	2	20
trans-1,4-Dichloro-2-butene	<10.0		20.0	15.50		ug/L		77	26 - 150	4	23
trans-1,2-Dichloroethene	<1.00		20.0	18.00		ug/L		90	48 - 130	2	22
trans-1,3-Dichloropropene	<5.00		20.0	16.70		ug/L		84	50 - 130	0	20
1,1,1-Trichloroethane	<1.00		20.0	17.62		ug/L		88	52 - 130	1	20
1,1,2-Trichloroethane	<1.00		20.0	18.23		ug/L		91	58 - 130	1	20
Trichloroethene	<1.00		20.0	17.73		ug/L		89	51 - 130	2	20
1,2,3-Trichloropropane	<1.00		20.0	19.09		ug/L		95	49 - 130	2	26
Vinyl acetate	<10.0		40.0	30.87		ug/L		77	29 - 150	3	23
Xylenes, Total	<3.00		40.0	36.70		ug/L		92	43 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	100		73 - 130
Toluene-d8 (Surr)	99		80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-436823/1-A

Matrix: Water

Analysis Batch: 438319

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/31/24 15:10	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/31/24 15:10	1
Barium	<0.00200		0.00200	0.000660	mg/L		10/21/24 09:30	10/31/24 15:10	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/31/24 15:10	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/31/24 15:10	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/31/24 15:10	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/21/24 09:30	10/31/24 15:10	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/31/24 15:10	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/31/24 15:10	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/21/24 09:30	10/31/24 15:10	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/31/24 15:10	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/31/24 15:10	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/31/24 15:10	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/31/24 15:10	1
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/31/24 15:10	1

Lab Sample ID: LCS 310-436823/2-A

Matrix: Water

Analysis Batch: 438319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2124		mg/L		106	80 - 120
Arsenic	0.200	0.2030		mg/L		102	80 - 120
Barium	0.100	0.1022		mg/L		102	80 - 120

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QC Sample Results

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-436823/2-A

Matrix: Water

Analysis Batch: 438319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.100	0.09277		mg/L		93	80 - 120
Cadmium	0.100	0.1001		mg/L		100	80 - 120
Chromium	0.100	0.1032		mg/L		103	80 - 120
Cobalt	0.100	0.1091		mg/L		109	80 - 120
Copper	0.200	0.2019		mg/L		101	80 - 120
Lead	0.200	0.2045		mg/L		102	80 - 120
Nickel	0.200	0.2014		mg/L		101	80 - 120
Selenium	0.400	0.3839		mg/L		96	80 - 120
Silver	0.100	0.1084		mg/L		108	80 - 120
Thallium	0.100	0.07978		mg/L		80	80 - 120
Vanadium	0.100	0.1020		mg/L		102	80 - 120
Zinc	0.200	0.1843		mg/L		92	80 - 120

Lab Sample ID: 310-293033-4 DU

Matrix: Water

Analysis Batch: 438319

Client Sample ID: MW-2A-97

Prep Type: Total/NA

Prep Batch: 436823

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00200		<0.00200		mg/L		NC	20
Arsenic	0.00444		0.004337		mg/L		2	20
Barium	0.323		0.3095		mg/L		4	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Cadmium	0.000167 J		0.0001840 J		mg/L		10	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	0.0213		0.02102		mg/L		1	20
Copper	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Nickel	0.0103		0.01006		mg/L		2	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Silver	<0.00100		<0.00100		mg/L		NC	20
Thallium	<0.00100		<0.00100		mg/L		NC	20
Vanadium	<0.00500		<0.00500		mg/L		NC	20
Zinc	<0.0200		<0.0200		mg/L		NC	20

Lab Sample ID: MB 310-436824/1-A

Matrix: Water

Analysis Batch: 437176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436824

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00100		0.00100	0.000330	mg/L		10/21/24 09:30	10/22/24 20:24	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		10/21/24 09:30	10/22/24 20:24	1
Chromium	<0.00500		0.00500	0.00120	mg/L		10/21/24 09:30	10/22/24 20:24	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		10/21/24 09:30	10/22/24 20:24	1
Copper	<0.00500		0.00500	0.00180	mg/L		10/21/24 09:30	10/22/24 20:24	1
Lead	<0.000500		0.000500	0.000260	mg/L		10/21/24 09:30	10/22/24 20:24	1
Nickel	<0.00500		0.00500	0.00210	mg/L		10/21/24 09:30	10/22/24 20:24	1
Selenium	<0.00500		0.00500	0.00140	mg/L		10/21/24 09:30	10/22/24 20:24	1
Silver	<0.00100		0.00100	0.000500	mg/L		10/21/24 09:30	10/22/24 20:24	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		10/21/24 09:30	10/22/24 20:24	1

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QC Sample Results

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 310-436824/1-A

Matrix: Water

Analysis Batch: 437176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436824

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0200		0.0200	0.00970	mg/L		10/21/24 09:30	10/22/24 20:24	1

Lab Sample ID: MB 310-436824/1-A

Matrix: Water

Analysis Batch: 437720

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436824

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		10/21/24 09:30	10/26/24 20:11	1
Barium	<0.00200		0.00200	0.000660	mg/L		10/21/24 09:30	10/26/24 20:11	1
Thallium	<0.00100		0.00100	0.000570	mg/L		10/21/24 09:30	10/26/24 20:11	1

Lab Sample ID: MB 310-436824/1-A

Matrix: Water

Analysis Batch: 438121

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 436824

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		10/21/24 09:30	10/30/24 13:11	1

Lab Sample ID: LCS 310-436824/2-A

Matrix: Water

Analysis Batch: 437176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.100	0.09194		mg/L		92	80 - 120
Cadmium	0.100	0.09626		mg/L		96	80 - 120
Chromium	0.100	0.09690		mg/L		97	80 - 120
Cobalt	0.100	0.09718		mg/L		97	80 - 120
Copper	0.200	0.1853		mg/L		93	80 - 120
Lead	0.200	0.1986		mg/L		99	80 - 120
Nickel	0.200	0.1989		mg/L		99	80 - 120
Selenium	0.400	0.3471		mg/L		87	80 - 120
Silver	0.100	0.1066		mg/L		107	80 - 120
Vanadium	0.100	0.09335		mg/L		93	80 - 120
Zinc	0.200	0.1832		mg/L		92	80 - 120

Lab Sample ID: LCS 310-436824/2-A

Matrix: Water

Analysis Batch: 437720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.1911	^	mg/L		96	80 - 120
Arsenic	0.200	0.1955		mg/L		98	80 - 120
Barium	0.100	0.09011		mg/L		90	80 - 120
Beryllium	0.100	0.09609		mg/L		96	80 - 120
Cadmium	0.100	0.09105		mg/L		91	80 - 120
Chromium	0.100	0.09435		mg/L		94	80 - 120
Cobalt	0.100	0.09480		mg/L		95	80 - 120
Copper	0.200	0.1854		mg/L		93	80 - 120
Lead	0.200	0.1796		mg/L		90	80 - 120
Nickel	0.200	0.1883		mg/L		94	80 - 120

Eurofins Cedar Falls

QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-436824/2-A

Matrix: Water

Analysis Batch: 437720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.400	0.3389		mg/L		85	80 - 120
Silver	0.100	0.09961		mg/L		100	80 - 120
Vanadium	0.100	0.09183		mg/L		92	80 - 120
Zinc	0.200	0.1740		mg/L		87	80 - 120

Lab Sample ID: LCS 310-436824/2-A

Matrix: Water

Analysis Batch: 438121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 436824

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2021		mg/L		101	80 - 120
Thallium	0.100	0.1058		mg/L		106	80 - 120

Lab Sample ID: 310-293033-14 MS

Matrix: Water

Analysis Batch: 437176

Client Sample ID: MW-2C-97

Prep Type: Total/NA

Prep Batch: 436824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.00581		0.100	0.1074		mg/L		102	75 - 125

Lab Sample ID: 310-293033-14 MS

Matrix: Water

Analysis Batch: 437720

Client Sample ID: MW-2C-97

Prep Type: Total/NA

Prep Batch: 436824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.00200		0.200	0.2123		mg/L		106	75 - 125
Barium	0.167		0.100	0.2693		mg/L		102	75 - 125

Lab Sample ID: 310-293033-14 MS

Matrix: Water

Analysis Batch: 438121

Client Sample ID: MW-2C-97

Prep Type: Total/NA

Prep Batch: 436824

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00200		0.200	0.2128		mg/L		106	75 - 125
Thallium	<0.00100		0.100	0.1116		mg/L		112	75 - 125

Lab Sample ID: 310-293033-14 MSD

Matrix: Water

Analysis Batch: 437176

Client Sample ID: MW-2C-97

Prep Type: Total/NA

Prep Batch: 436824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cobalt	0.00581		0.100	0.1063		mg/L		101	75 - 125	1	20

Lab Sample ID: 310-293033-14 MSD

Matrix: Water

Analysis Batch: 437720

Client Sample ID: MW-2C-97

Prep Type: Total/NA

Prep Batch: 436824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	<0.00200		0.200	0.2178		mg/L		109	75 - 125	3	20
Barium	0.167		0.100	0.2694		mg/L		102	75 - 125	0	20

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QC Sample Results

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-293033-14 MSD

Matrix: Water

Analysis Batch: 438121

Client Sample ID: MW-2C-97

Prep Type: Total/NA

Prep Batch: 436824

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00200		0.200	0.2098		mg/L		105	75 - 125	1	20
Thallium	<0.00100		0.100	0.1092		mg/L		109	75 - 125	2	20

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-793380/1

Matrix: Water

Analysis Batch: 793380

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.00		1.00	0.231	mg/L			10/31/24 19:43	1

Lab Sample ID: LCS 500-793380/2

Matrix: Water

Analysis Batch: 793380

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.76	3.649		mg/L		97	80 - 120

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-436615/1

Matrix: Water

Analysis Batch: 436615

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			10/17/24 12:51	1

Lab Sample ID: LCS 310-436615/2

Matrix: Water

Analysis Batch: 436615

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	101.0		mg/L		101	81 - 116

Lab Sample ID: 310-293033-4 DU

Matrix: Water

Analysis Batch: 436615

Client Sample ID: MW-2A-97

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	9.33		9.333		mg/L		0	35

Lab Sample ID: 310-293033-19 DU

Matrix: Water

Analysis Batch: 436615

Client Sample ID: WT-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	4570		4680		mg/L		2	35

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QC Sample Results

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: MB 310-436687/1

Matrix: Water

Analysis Batch: 436687

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			10/18/24 07:11	1

Lab Sample ID: LCS 310-436687/2

Matrix: Water

Analysis Batch: 436687

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	101.0		mg/L		101	81 - 116

QC Association Summary

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

GC/MS VOA

Analysis Batch: 436794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-12	MW-219A	Total/NA	Water	8260D	
310-293033-15	Dup-1	Total/NA	Water	8260D	
310-293033-16	Dup-2	Total/NA	Water	8260D	
310-293033-17	MW-31B	Total/NA	Water	8260D	
310-293033-18	WT-OF	Total/NA	Water	8260D	
310-293033-19	WT-1	Total/NA	Water	8260D	
310-293033-20	WT-4	Total/NA	Water	8260D	
310-293033-21	WT-2	Total/NA	Water	8260D	
310-293033-22	WT-3	Total/NA	Water	8260D	
310-293033-23	Trip Blank 1	Total/NA	Water	8260D	
310-293033-24	Trip Blank 2	Total/NA	Water	8260D	
310-293033-25	Trip Blank 3	Total/NA	Water	8260D	
MB 310-436794/5	Method Blank	Total/NA	Water	8260D	
LCS 310-436794/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-436794/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 436944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-1	MW-218A	Total/NA	Water	8260D	
310-293033-2	MW-220A	Total/NA	Water	8260D	
310-293033-4	MW-2A-97	Total/NA	Water	8260D	
310-293033-5	MW-25A	Total/NA	Water	8260D	
310-293033-7	MW-217A	Total/NA	Water	8260D	
310-293033-8	MW-1A	Total/NA	Water	8260D	
310-293033-9	MW-216A	Total/NA	Water	8260D	
310-293033-10	MW-407	Total/NA	Water	8260D	
310-293033-11	MW-410	Total/NA	Water	8260D	
310-293033-13	MW-404	Total/NA	Water	8260D	
MB 310-436944/5	Method Blank	Total/NA	Water	8260D	
LCS 310-436944/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-436944/7	Lab Control Sample	Total/NA	Water	8260D	
310-293033-1 MS	MW-218A	Total/NA	Water	8260D	
310-293033-1 MSD	MW-218A	Total/NA	Water	8260D	

Metals

Prep Batch: 436823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-1	MW-218A	Total/NA	Water	3005A	
310-293033-2	MW-220A	Total/NA	Water	3005A	
310-293033-3	MW-7C	Total/NA	Water	3005A	
310-293033-4	MW-2A-97	Total/NA	Water	3005A	
310-293033-5	MW-25A	Total/NA	Water	3005A	
310-293033-6	MW-24A	Total/NA	Water	3005A	
310-293033-7	MW-217A	Total/NA	Water	3005A	
310-293033-8	MW-1A	Total/NA	Water	3005A	
310-293033-9	MW-216A	Total/NA	Water	3005A	
310-293033-10	MW-407	Total/NA	Water	3005A	
310-293033-11	MW-410	Total/NA	Water	3005A	
310-293033-12	MW-219A	Total/NA	Water	3005A	
MB 310-436823/1-A	Method Blank	Total/NA	Water	3005A	

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QC Association Summary

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Metals (Continued)

Prep Batch: 436823 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-436823/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-293033-4 DU	MW-2A-97	Total/NA	Water	3005A	

Prep Batch: 436824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-14	MW-2C-97	Total/NA	Water	3005A	
310-293033-15	Dup-1	Total/NA	Water	3005A	
310-293033-16	Dup-2	Total/NA	Water	3005A	
310-293033-17	MW-31B	Total/NA	Water	3005A	
310-293033-18	WT-OF	Total/NA	Water	3005A	
310-293033-19	WT-1	Total/NA	Water	3005A	
310-293033-20	WT-4	Total/NA	Water	3005A	
310-293033-21	WT-2	Total/NA	Water	3005A	
310-293033-22	WT-3	Total/NA	Water	3005A	
MB 310-436824/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-436824/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-293033-14 MS	MW-2C-97	Total/NA	Water	3005A	
310-293033-14 MSD	MW-2C-97	Total/NA	Water	3005A	

Analysis Batch: 437176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-14	MW-2C-97	Total/NA	Water	6020B	436824
310-293033-15	Dup-1	Total/NA	Water	6020B	436824
310-293033-16	Dup-2	Total/NA	Water	6020B	436824
310-293033-17	MW-31B	Total/NA	Water	6020B	436824
310-293033-18	WT-OF	Total/NA	Water	6020B	436824
310-293033-19	WT-1	Total/NA	Water	6020B	436824
310-293033-20	WT-4	Total/NA	Water	6020B	436824
310-293033-21	WT-2	Total/NA	Water	6020B	436824
310-293033-22	WT-3	Total/NA	Water	6020B	436824
MB 310-436824/1-A	Method Blank	Total/NA	Water	6020B	436824
LCS 310-436824/2-A	Lab Control Sample	Total/NA	Water	6020B	436824
310-293033-14 MS	MW-2C-97	Total/NA	Water	6020B	436824
310-293033-14 MSD	MW-2C-97	Total/NA	Water	6020B	436824

Analysis Batch: 437720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-15	Dup-1	Total/NA	Water	6020B	436824
310-293033-16	Dup-2	Total/NA	Water	6020B	436824
310-293033-17	MW-31B	Total/NA	Water	6020B	436824
310-293033-18	WT-OF	Total/NA	Water	6020B	436824
310-293033-19	WT-1	Total/NA	Water	6020B	436824
310-293033-20	WT-4	Total/NA	Water	6020B	436824
310-293033-21	WT-2	Total/NA	Water	6020B	436824
310-293033-22	WT-3	Total/NA	Water	6020B	436824
MB 310-436824/1-A	Method Blank	Total/NA	Water	6020B	436824
LCS 310-436824/2-A	Lab Control Sample	Total/NA	Water	6020B	436824
310-293033-14 MS	MW-2C-97	Total/NA	Water	6020B	436824
310-293033-14 MSD	MW-2C-97	Total/NA	Water	6020B	436824

Eurofins Cedar Falls

QC Association Summary

Client: HDR Inc

Job ID: 310-293033-1

Metals

Analysis Batch: 438121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-15	Dup-1	Total/NA	Water	6020B	436824
310-293033-16	Dup-2	Total/NA	Water	6020B	436824
310-293033-17	MW-31B	Total/NA	Water	6020B	436824
310-293033-18	WT-OF	Total/NA	Water	6020B	436824
310-293033-19	WT-1	Total/NA	Water	6020B	436824
310-293033-20	WT-4	Total/NA	Water	6020B	436824
310-293033-21	WT-2	Total/NA	Water	6020B	436824
310-293033-22	WT-3	Total/NA	Water	6020B	436824
MB 310-436824/1-A	Method Blank	Total/NA	Water	6020B	436824
LCS 310-436824/2-A	Lab Control Sample	Total/NA	Water	6020B	436824
310-293033-14 MS	MW-2C-97	Total/NA	Water	6020B	436824
310-293033-14 MSD	MW-2C-97	Total/NA	Water	6020B	436824

Analysis Batch: 438319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-1	MW-218A	Total/NA	Water	6020B	436823
310-293033-2	MW-220A	Total/NA	Water	6020B	436823
310-293033-3	MW-7C	Total/NA	Water	6020B	436823
310-293033-4	MW-2A-97	Total/NA	Water	6020B	436823
310-293033-5	MW-25A	Total/NA	Water	6020B	436823
310-293033-6	MW-24A	Total/NA	Water	6020B	436823
310-293033-7	MW-217A	Total/NA	Water	6020B	436823
310-293033-8	MW-1A	Total/NA	Water	6020B	436823
310-293033-9	MW-216A	Total/NA	Water	6020B	436823
310-293033-10	MW-407	Total/NA	Water	6020B	436823
310-293033-11	MW-410	Total/NA	Water	6020B	436823
310-293033-12	MW-219A	Total/NA	Water	6020B	436823
MB 310-436823/1-A	Method Blank	Total/NA	Water	6020B	436823
LCS 310-436823/2-A	Lab Control Sample	Total/NA	Water	6020B	436823
310-293033-4 DU	MW-2A-97	Total/NA	Water	6020B	436823

General Chemistry

Analysis Batch: 436615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-1	MW-218A	Total/NA	Water	I-3765-85	
310-293033-4	MW-2A-97	Total/NA	Water	I-3765-85	
310-293033-7	MW-217A	Total/NA	Water	I-3765-85	
310-293033-8	MW-1A	Total/NA	Water	I-3765-85	
310-293033-9	MW-216A	Total/NA	Water	I-3765-85	
310-293033-10	MW-407	Total/NA	Water	I-3765-85	
310-293033-11	MW-410	Total/NA	Water	I-3765-85	
310-293033-12	MW-219A	Total/NA	Water	I-3765-85	
310-293033-14	MW-2C-97	Total/NA	Water	I-3765-85	
310-293033-15	Dup-1	Total/NA	Water	I-3765-85	
310-293033-16	Dup-2	Total/NA	Water	I-3765-85	
310-293033-17	MW-31B	Total/NA	Water	I-3765-85	
310-293033-18	WT-OF	Total/NA	Water	I-3765-85	
310-293033-19	WT-1	Total/NA	Water	I-3765-85	
310-293033-20	WT-4	Total/NA	Water	I-3765-85	
310-293033-21	WT-2	Total/NA	Water	I-3765-85	

Eurofins Cedar Falls

QC Association Summary

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

General Chemistry (Continued)

Analysis Batch: 436615 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-22	WT-3	Total/NA	Water	I-3765-85	
MB 310-436615/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-436615/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-293033-4 DU	MW-2A-97	Total/NA	Water	I-3765-85	
310-293033-19 DU	WT-1	Total/NA	Water	I-3765-85	

Analysis Batch: 436687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-2	MW-220A	Total/NA	Water	I-3765-85	
310-293033-3	MW-7C	Total/NA	Water	I-3765-85	
310-293033-5	MW-25A	Total/NA	Water	I-3765-85	
310-293033-6	MW-24A	Total/NA	Water	I-3765-85	
MB 310-436687/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-436687/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 793380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293033-10	MW-407	Total/NA	Water	9034	
MB 500-793380/1	Method Blank	Total/NA	Water	9034	
LCS 500-793380/2	Lab Control Sample	Total/NA	Water	9034	

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-218A

Lab Sample ID: 310-293033-1

Date Collected: 10/15/24 09:43

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436944	FE5V	EET CF	10/22/24 13:41
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 15:45
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: MW-220A

Lab Sample ID: 310-293033-2

Date Collected: 10/15/24 10:12

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436944	FE5V	EET CF	10/22/24 14:04
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 15:47
Total/NA	Analysis	I-3765-85		1	436687	DGU1	EET CF	10/18/24 07:11

Client Sample ID: MW-7C

Lab Sample ID: 310-293033-3

Date Collected: 10/15/24 08:14

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 15:49
Total/NA	Analysis	I-3765-85		1	436687	DGU1	EET CF	10/18/24 07:11

Client Sample ID: MW-2A-97

Lab Sample ID: 310-293033-4

Date Collected: 10/14/24 09:57

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436944	FE5V	EET CF	10/22/24 14:27
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 15:51
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: MW-25A

Lab Sample ID: 310-293033-5

Date Collected: 10/15/24 09:13

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436944	FE5V	EET CF	10/22/24 14:49
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 16:04
Total/NA	Analysis	I-3765-85		1	436687	DGU1	EET CF	10/18/24 07:11

Eurofins Cedar Falls

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-24A

Date Collected: 10/15/24 08:46

Date Received: 10/16/24 16:15

Lab Sample ID: 310-293033-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 16:06
Total/NA	Analysis	I-3765-85		1	436687	DGU1	EET CF	10/18/24 07:11

Client Sample ID: MW-217A

Date Collected: 10/14/24 10:44

Date Received: 10/16/24 16:15

Lab Sample ID: 310-293033-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436944	FE5V	EET CF	10/22/24 15:12
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 16:08
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: MW-1A

Date Collected: 10/14/24 09:01

Date Received: 10/16/24 16:15

Lab Sample ID: 310-293033-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436944	FE5V	EET CF	10/22/24 15:35
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 16:10
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: MW-216A

Date Collected: 10/14/24 09:28

Date Received: 10/16/24 16:15

Lab Sample ID: 310-293033-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436944	FE5V	EET CF	10/22/24 15:58
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 16:13
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: MW-407

Date Collected: 10/14/24 14:25

Date Received: 10/16/24 16:15

Lab Sample ID: 310-293033-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436944	FE5V	EET CF	10/22/24 16:20
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 16:15
Total/NA	Analysis	9034		1	793380	CLB	EET CHI	10/31/24 19:49 - 10/31/24 19:52 ¹
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Eurofins Cedar Falls

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: MW-410

Lab Sample ID: 310-293033-11

Date Collected: 10/14/24 13:29

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436944	FE5V	EET CF	10/22/24 16:43
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 16:17
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: MW-219A

Lab Sample ID: 310-293033-12

Date Collected: 10/14/24 12:45

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/20/24 00:51
Total/NA	Prep	3005A			436823	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438319	A6US	EET CF	10/31/24 16:19
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: MW-404

Lab Sample ID: 310-293033-13

Date Collected: 10/14/24 15:01

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436944	FE5V	EET CF	10/22/24 17:06

Client Sample ID: MW-2C-97

Lab Sample ID: 310-293033-14

Date Collected: 10/14/24 10:17

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437176	NFT2	EET CF	10/22/24 20:31
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: Dup-1

Lab Sample ID: 310-293033-15

Date Collected: 10/14/24 10:44

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/20/24 01:14
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437176	NFT2	EET CF	10/22/24 20:46
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437720	A6US	EET CF	10/26/24 20:42
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438121	A6US	EET CF	10/30/24 14:22
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Eurofins Cedar Falls

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: Dup-2

Lab Sample ID: 310-293033-16

Date Collected: 10/11/24 11:02

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/20/24 01:36
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437176	NFT2	EET CF	10/22/24 20:50
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437720	A6US	EET CF	10/26/24 20:46
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438121	A6US	EET CF	10/30/24 14:25
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: MW-31B

Lab Sample ID: 310-293033-17

Date Collected: 10/11/24 11:02

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/20/24 01:59
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437176	NFT2	EET CF	10/22/24 21:09
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437720	A6US	EET CF	10/26/24 20:50
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438121	A6US	EET CF	10/30/24 14:28
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: WT-OF

Lab Sample ID: 310-293033-18

Date Collected: 10/11/24 09:54

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/20/24 02:21
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437176	NFT2	EET CF	10/22/24 21:13
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437720	A6US	EET CF	10/26/24 20:53
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438121	A6US	EET CF	10/30/24 14:31
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: WT-1

Lab Sample ID: 310-293033-19

Date Collected: 10/11/24 10:38

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/20/24 02:44
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437176	NFT2	EET CF	10/22/24 21:17

Eurofins Cedar Falls

Lab Chronicle

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-1

Lab Sample ID: 310-293033-19

Date Collected: 10/11/24 10:38

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437720	A6US	EET CF	10/26/24 20:57
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438121	A6US	EET CF	10/30/24 14:34
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: WT-4

Lab Sample ID: 310-293033-20

Date Collected: 10/11/24 10:01

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/20/24 03:07
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437176	NFT2	EET CF	10/22/24 21:21
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437720	A6US	EET CF	10/26/24 21:01
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438121	A6US	EET CF	10/30/24 14:36
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: WT-2

Lab Sample ID: 310-293033-21

Date Collected: 10/11/24 10:23

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/20/24 03:29
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437176	NFT2	EET CF	10/22/24 21:24
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437720	A6US	EET CF	10/26/24 21:04
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438121	A6US	EET CF	10/30/24 14:39
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: WT-3

Lab Sample ID: 310-293033-22

Date Collected: 10/11/24 10:15

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/20/24 03:52
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437176	NFT2	EET CF	10/22/24 21:28
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	437720	A6US	EET CF	10/26/24 21:08

Eurofins Cedar Falls

Lab Chronicle

Client: HDR Inc

Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Client Sample ID: WT-3

Lab Sample ID: 310-293033-22

Date Collected: 10/11/24 10:15

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			436824	F5MW	EET CF	10/21/24 09:30
Total/NA	Analysis	6020B		1	438121	A6US	EET CF	10/30/24 14:43
Total/NA	Analysis	I-3765-85		1	436615	DGU1	EET CF	10/17/24 12:51

Client Sample ID: Trip Blank 1

Lab Sample ID: 310-293033-23

Date Collected: 10/15/24 00:00

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/19/24 20:42

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-293033-24

Date Collected: 10/15/24 00:00

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/19/24 21:05

Client Sample ID: Trip Blank 3

Lab Sample ID: 310-293033-25

Date Collected: 10/15/24 00:00

Matrix: Water

Date Received: 10/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	436794	MZR8	EET CF	10/19/24 21:27

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: HDR Inc
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-26

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Method Summary

Client: HDR Inc

Job ID: 310-293033-1

Project/Site: Iowa City Landfill Recycling Center

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CHI
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Environment Testing
America



310-293033 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Waukegan City Landfill</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received	DATE <u>10/16/24</u>	TIME <u>1615</u>	Received By: <u>XB</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? ☒ Yes ☐ No If yes: Cooler ID. _____			
Multiple Coolers? ☒ Yes ☐ No If yes: Cooler # <u>1</u> of <u>3</u>			
Cooler Custody Seals Present? ☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No			
Sample Custody Seals Present? ☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No			
Trip Blank Present? ☒ Yes ☐ No If yes: Which VOA samples are in cooler? ↓			
<u>WT-3, 4, OF, 2, 1, MW-3/B</u> <u>TBI</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>0</u>		Corrected Temp (°C): <u>0</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Dan City Landfill</u>			
City/State: <u>Dan City</u> <u>Landfill</u>		Project:	
Receipt Information			
Date/Time Received: <u>10/16/24</u> <u>1615</u>		Received By: <u>KB</u>	
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No If yes: Cooler ID: _____	
Multiple Coolers?		☒ Yes ☐ No If yes: Cooler # <u>2</u> of <u>3</u>	
Cooler Custody Seals Present?		☐ Yes ☒ No If yes: Cooler custody seals intact? ☐ Yes ☐ No	
Sample Custody Seals Present?		☐ Yes ☒ No If yes: Sample custody seals intact? ☐ Yes ☐ No	
Trip Blank Present?		☒ Yes ☐ No If yes: Which VOA samples are in cooler? ↓	
<u>MW 220A, 218A, 2A-97, 217A, 25A, 1A TB2</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>Z</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>5.6</u>		Corrected Temp (°C): <u>5.6</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Iowa City Landfill</u>			
City/State:	CITY	STATE	Project:
Receipt Information			
Date/Time Received:	DATE <u>10/16/24</u>	TIME <u>1:45</u>	Received By: <u>[Signature]</u>
Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID: _____
Multiple Coolers?		☒ Yes ☐ No	If yes: Cooler # <u>3</u> of <u>3</u>
Cooler Custody Seals Present?		☐ Yes ☒ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☒ Yes ☐ No	If yes: Which VOA samples are in cooler? ↓
<u>Dup 2, Dup 1, MW219A, 410, 407, 216A, 404, TB3</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>2</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>2.8</u>		Corrected Temp (°C): <u>2.8</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Chain of Custody Record

Client Information				Carrier Tracking No(s):				COC No:			
Client Contact:				Carrier Tracking No(s):				COC No:			
Company:				Carrier Tracking No(s):				COC No:			
Address:				Carrier Tracking No(s):				COC No:			
City:				Carrier Tracking No(s):				COC No:			
State:				Carrier Tracking No(s):				COC No:			
Zip:				Carrier Tracking No(s):				COC No:			
Phone:				Carrier Tracking No(s):				COC No:			
Email:				Carrier Tracking No(s):				COC No:			
Project Name:				Carrier Tracking No(s):				COC No:			
Site:				Carrier Tracking No(s):				COC No:			
Sample Identification				Analysis Requested				Special Instructions/Note:			
Sample Date				Analysis Requested				Special Instructions/Note:			
Sample Time				Analysis Requested				Special Instructions/Note:			
Sample Type (C=comp, G=grab)				Analysis Requested				Special Instructions/Note:			
Matrix (Water, Soil, Sludge, Other)				Analysis Requested				Special Instructions/Note:			
Preservation Code:				Analysis Requested				Special Instructions/Note:			
Field Filtered Sample (Yes or No)				Analysis Requested				Special Instructions/Note:			
Perform MS/MSD (Yes or No)				Analysis Requested				Special Instructions/Note:			
Appendix 1				Analysis Requested				Special Instructions/Note:			
Metals List - As, Ba, Ca, Cu, Pb, Ni				Analysis Requested				Special Instructions/Note:			
App 1 VOC only				Analysis Requested				Special Instructions/Note:			
I 3765, 65 - TSS				Analysis Requested				Special Instructions/Note:			
9034 Calc - Sulfide				Analysis Requested				Special Instructions/Note:			
Dichlorodifluoromethane				Analysis Requested				Special Instructions/Note:			
8151A - 2,4,5-TP (Silvex)				Analysis Requested				Special Instructions/Note:			
8081B - Beta BHC				Analysis Requested				Special Instructions/Note:			
Arsenic				Analysis Requested				Special Instructions/Note:			
Benzene				Analysis Requested				Special Instructions/Note:			
Cobalt				Analysis Requested				Special Instructions/Note:			
Tetrachloroethene, trichloroethene, Vinyl Chloride				Analysis Requested				Special Instructions/Note:			
Total Number of containers				Analysis Requested				Special Instructions/Note:			
Other				Analysis Requested				Special Instructions/Note:			
Preservation Codes:				Analysis Requested				Special Instructions/Note:			
D - HNO3				Analysis Requested				Special Instructions/Note:			
A - HCL				Analysis Requested				Special Instructions/Note:			
N - None				Analysis Requested				Special Instructions/Note:			
CB - ZnAcetate/NaOH				Analysis Requested				Special Instructions/Note:			
Due Date Requested:				Analysis Requested				Special Instructions/Note:			
TAT Requested (days):				Analysis Requested				Special Instructions/Note:			
Compliance Project: ☐ Yes ☐ No				Analysis Requested				Special Instructions/Note:			
PO #:				Analysis Requested				Special Instructions/Note:			
WO #:				Analysis Requested				Special Instructions/Note:			
Project #:				Analysis Requested				Special Instructions/Note:			
31018052				Analysis Requested				Special Instructions/Note:			
SSOW#:				Analysis Requested				Special Instructions/Note:			
Sample Date				Analysis Requested				Special Instructions/Note:			
Sample Time				Analysis Requested				Special Instructions/Note:			
Sample Type (C=comp, G=grab)				Analysis Requested				Special Instructions/Note:			
Matrix (Water, Soil, Sludge, Other)				Analysis Requested				Special Instructions/Note:			
Preservation Code:				Analysis Requested				Special Instructions/Note:			
Field Filtered Sample (Yes or No)				Analysis Requested				Special Instructions/Note:			
Perform MS/MSD (Yes or No)				Analysis Requested				Special Instructions/Note:			
Appendix 1				Analysis Requested				Special Instructions/Note:			
Metals List - As, Ba, Ca, Cu, Pb, Ni				Analysis Requested				Special Instructions/Note:			
App 1 VOC only				Analysis Requested				Special Instructions/Note:			
I 3765, 65 - TSS				Analysis Requested				Special Instructions/Note:			
9034 Calc - Sulfide				Analysis Requested				Special Instructions/Note:			
Dichlorodifluoromethane				Analysis Requested				Special Instructions/Note:			
8151A - 2,4,5-TP (Silvex)				Analysis Requested				Special Instructions/Note:			
8081B - Beta BHC				Analysis Requested				Special Instructions/Note:			
Arsenic				Analysis Requested				Special Instructions/Note:			
Benzene				Analysis Requested				Special Instructions/Note:			
Cobalt				Analysis Requested				Special Instructions/Note:			
Tetrachloroethene, trichloroethene, Vinyl Chloride				Analysis Requested				Special Instructions/Note:			
Total Number of containers				Analysis Requested				Special Instructions/Note:			
Other				Analysis Requested				Special Instructions/Note:			
Preservation Codes:				Analysis Requested				Special Instructions/Note:			
D - HNO3				Analysis Requested				Special Instructions/Note:			
A - HCL				Analysis Requested				Special Instructions/Note:			
N - None				Analysis Requested				Special Instructions/Note:			
CB - ZnAcetate/NaOH				Analysis Requested				Special Instructions/Note:			
Due Date Requested:				Analysis Requested				Special Instructions/Note:			
TAT Requested (days):				Analysis Requested				Special Instructions/Note:			
Compliance Project: ☐ Yes ☐ No				Analysis Requested				Special Instructions/Note:			
PO #:				Analysis Requested				Special Instructions/Note:			
WO #:				Analysis Requested				Special Instructions/Note:			
Project #:				Analysis Requested				Special Instructions/Note:			
31018052				Analysis Requested				Special Instructions/Note:			
SSOW#:				Analysis Requested				Special Instructions/Note:			
Sample Date				Analysis Requested				Special Instructions/Note:			
Sample Time				Analysis Requested				Special Instructions/Note:			
Sample Type (C=comp, G=grab)				Analysis Requested				Special Instructions/Note:			
Matrix (Water, Soil, Sludge, Other)				Analysis Requested				Special Instructions/Note:			
Preservation Code:				Analysis Requested				Special Instructions/Note:			
Field Filtered Sample (Yes or No)				Analysis Requested				Special Instructions/Note:			
Perform MS/MSD (Yes or No)				Analysis Requested				Special Instructions/Note:			
Appendix 1				Analysis Requested				Special Instructions/Note:			
Metals List - As, Ba, Ca, Cu, Pb, Ni				Analysis Requested				Special Instructions/Note:			
App 1 VOC only				Analysis Requested				Special Instructions/Note:			
I 3765, 65 - TSS				Analysis Requested				Special Instructions/Note:			
9034 Calc - Sulfide				Analysis Requested				Special Instructions/Note:			
Dichlorodifluoromethane				Analysis Requested				Special Instructions/Note:			
8151A - 2,4,5-TP (Silvex)				Analysis Requested				Special Instructions/Note:			
8081B - Beta BHC				Analysis Requested				Special Instructions/Note:			
Arsenic				Analysis Requested				Special Instructions/Note:			
Benzene				Analysis Requested				Special Instructions/Note:			
Cobalt				Analysis Requested				Special Instructions/Note:			
Tetrachloroethene, trichloroethene, Vinyl Chloride				Analysis Requested							

Chain of Custody Record

Client Information		Sampler: <u>Joel Fuhrmeister</u>		Lab PM: <u>Calhoun, Conner M</u>		Carrier Tracking No(s):		COC No: <u>310-98143-26703.6</u>	
Client Contact: <u>Richard Wilson</u>		Phone: <u>319-936-5194</u>		E-Mail: <u>Conner Calhoun@et.eurofins.com</u>		State of Origin:		Page: <u>2 of 2</u>	
Company: <u>HDR Inc</u>		PWSID:		Analysis Requested		Total Number of Containers		Job #: <u>2</u>	
Address: <u>1917 S 67th Street</u>		Due Date Requested:		Perform MS/MSD (Yes or No)		Appendix 1		Preservation Codes: D - HNO3 A - HCL N - None CB - ZnAcetate/NaOH	
City: <u>Omaha</u>		TAT Requested (days):		Field Filtered Sample (Yes or No)		Metals List: As, Ba, Co, Cu, Pb, Ni		Other:	
State, Zip: <u>NE, 68106</u>		Compliance Project: ☐ Yes ☒ No		Sample Date		Sample Time		Matrix (Water, Solid, Sewage, Oil, Other)	
Phone: <u>308-882-6141(Tel)</u>		PO #:		Sample Type (C=Comp, G=grab)		Sample Time		Preservation Code	
Email: <u>richard.wilson2@hdrinc.com</u>		WO #:		Sample Date		Sample Time		Sample Type	
Project Name: <u>Iowa City Landfill Recycling Center</u>		Project #: <u>31018052</u>		Sample Date		Sample Time		Sample Type	
Site: <u>SSOW#:</u>		SSOW#:		Sample Date		Sample Time		Sample Type	
Sample Identification		Sample Date		Sample Time		Sample Type		Matrix	
<u>MW-219A</u>		<u>10-14-24</u>		<u>12:45</u>		<u>G</u>		<u>Water</u>	
<u>MW-404</u>		<u>10-14-24</u>		<u>15:01</u>		<u>G</u>		<u>Water</u>	
<u>MW-2097</u>		<u>10-14-24</u>		<u>10:17</u>		<u>G</u>		<u>Water</u>	
<u>DUP-1</u>		<u>10-14-24</u>		<u>10:44</u>		<u>G</u>		<u>Water</u>	
<u>DUP-2</u>		<u>10-11-24</u>		<u>11:02</u>		<u>G</u>		<u>Water</u>	
<u>MW-31B</u>		<u>10-11-24</u>		<u>11:02</u>		<u>G</u>		<u>Water</u>	
<u>WT-0F</u>		<u>10-11-24</u>		<u>9:54</u>		<u>G</u>		<u>Water</u>	
<u>WT-1</u>		<u>10-11-24</u>		<u>10:38</u>		<u>G</u>		<u>Water</u>	
<u>WT-4</u>		<u>10-11-24</u>		<u>10:01</u>		<u>G</u>		<u>Water</u>	
<u>WT-2</u>		<u>10-11-24</u>		<u>10:23</u>		<u>G</u>		<u>Water</u>	
<u>WT-3</u>		<u>10-11-24</u>		<u>10:15</u>		<u>G</u>		<u>Water</u>	
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months		Special Instructions/Note:	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by		Date: <u>10-16-24</u>		Time: <u>10:16</u>		Method of Shipment:	
Relinquished by <u>R. Wilson</u>		Company: <u>COIC</u>		Relinquished by <u>Joel Fuhrmeister</u>		Company: <u>eurofins</u>		Date Time: <u>10/16/24 13:14</u>	
Relinquished by		Company:		Relinquished by		Company:		Date Time:	
Relinquished by		Company:		Relinquished by		Company:		Date Time:	
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:					

[illegible]

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 310-293033-1

SDG Number:

Login Number: 293033

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Homolar, Dana J

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 310-293033-1

SDG Number:

Login Number: 293033

List Number: 2

Creator: Scott, Sherri L

List Source: Eurofins Chicago

List Creation: 10/18/24 03:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Quantitation Limit Exceptions Summary

Client: HDR Inc

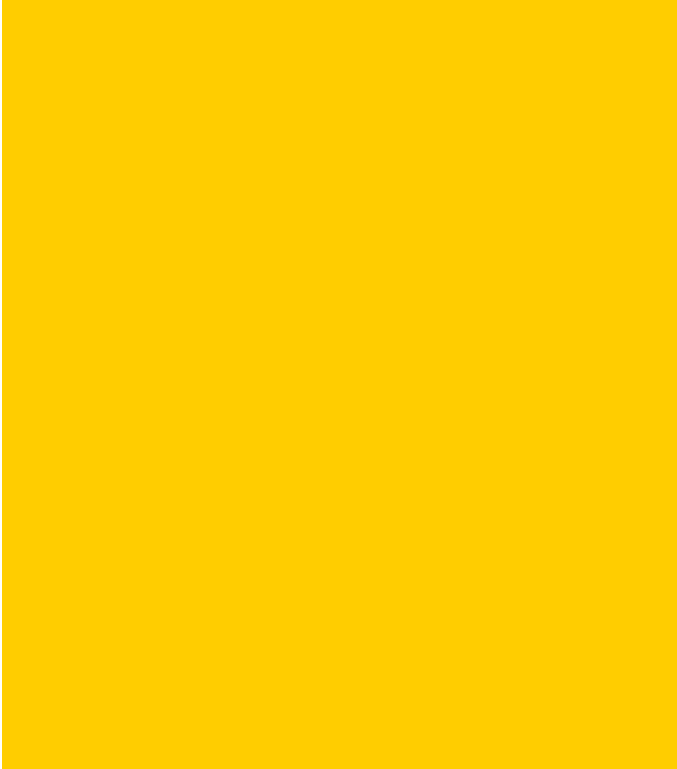
Project/Site: Iowa City Landfill Recycling Center

Job ID: 310-293033-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1

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Appendix E

Historical Groundwater
Analytical Data Summary



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Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

[illegible]

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D
1,1,1-Trichloroethane	7440-66-6	ug/L	10/16/2018	<1	4.42	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/16/2019	<1	1.12	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/1/2019	<1	0.932J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/7/2020	<1	0.334J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/20/2021					<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	5/2/2022					<1	<1	<1	<1	<1	<1	<1	<1					<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/14/2022					<1	<1	<1	<1	<1	<1							<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	5/1/2023	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/16/2023					<1	<1	<1	<1	<1	<1	<1						<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/29/2024					<1	<1	<1	<1		<1							<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/10/2024						<1.00			<1.00													
1,1,1-Trichloroethane	7440-66-6	ug/L	10/9/2024										<1.00												
1,1,1-Trichloroethane	7440-66-6	ug/L	10/15/2024																				<1.00	<1.00	<1.00
1,1,1-Trichloroethane	7440-66-6	ug/L	10/14/2024																						
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1	<1											<1.00	<1.00		<1.00	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1	<1															
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1	<1															
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1	<1															
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1	<1															
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1	<1															
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/7/2009										<1	<1	<1	<1			<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	9/2/2009										<1	<1	<1	<1			<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<1	<2	<2	<1	<1			<2	<2	<2	<1			<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	1/2/2010										<1	<1	<1	<1			<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/3/2010									<2	<2	<2	<1	<1	<2	<2	<2	<2					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<2	<2	<2	<2					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/8/2010										<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	9/13/2010										<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1		<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	1/10/2011										<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2011										<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1		<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	12/5/2011				<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	6/25/2012				<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	8/1/2012								<1										<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	12/13/2012								<1							<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	2/4/2013																		<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1			<1		<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/10/2013																		<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2013	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/20/2018		<1									<1			<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/23/2018	<1					<1			<1	<1	<1	<1	<1	<1		<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/25/2018																						
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/30/2018			<1	<1	<1	<1									<1							
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/1/2018																		<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/2/2018							<1															
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1,2,2-Tetrachloroethane	7																								

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D
1,1,2-Trichloroethane	7440-66-6	ug/L	7/10/2013																						
1,1,2-Trichloroethane	7440-66-6	ug/L	10/7/2013	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/20/2018		<1									<1		<1			<1	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	4/23/2018	<1					<1			<1	<1		<1	<1	<1								
1,1,2-Trichloroethane	7440-66-6	ug/L	4/25/2018																						
1,1,2-Trichloroethane	7440-66-6	ug/L	4/30/2018			<1	<1	<1																	
1,1,2-Trichloroethane	7440-66-6	ug/L	5/1/2018								<1							<1			<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	5/2/2018																						
1,1,2-Trichloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/20/2021					<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	5/2/2022					<1	<1	<1	<1	<1	<1	<1						<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/14/2022					<1	<1	<1	<1	<1	<1							<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	5/1/2023	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1		<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/16/2023					<1	<1	<1	<1	<1	<1								<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/29/2024					<1	<1	<1	<1	<1	<1							<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/10/2024						<1.00			<1.00													<1.00
1,1,2-Trichloroethane	7440-66-6	ug/L	10/9/2024										<1.00												
1,1,2-Trichloroethane	7440-66-6	ug/L	10/15/2024																		<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	7440-66-6	ug/L	10/14/2024																						
1,1-Dichloroethane	7440-66-6	ug/L	2/27/2008	<1	6.16	<1	<1	<1	<1	<1															
1,1-Dichloroethane	7440-66-6	ug/L	5/12/2008	<1	8.39	<1	<1	<1	<1	<1															
1,1-Dichloroethane	7440-66-6	ug/L	7/13/2008	<1	11.4	<1	<1	<1	<1	<1															
1,1-Dichloroethane	7440-66-6	ug/L	9/14/2008	<1	15.4	<1	<1	<1	<1	<1															
1,1-Dichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1	<1															
1,1-Dichloroethane	7440-66-6	ug/L	4/14/2009	<1	18.3	<1	<1	<1	<1	<1															
1,1-Dichloroethane	7440-66-6	ug/L	7/7/2009		25.9								6.37	<1	<1	<1		<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	9/2/2009		25.2								3.35	<1	<1	<1		<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/25/2009	<1	22.7	<1	<1	<1	<1	<1			1.03	<1	<1	<1		<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	1/2/2010		30.9								1.07	<1	<1	<1		<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	3/3/2010										3.32	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	5/10/2010	<1	42.4	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	7/8/2010										<1	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	9/13/2010										<1	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	11/1/2010	<1	60.4	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	1/10/2011																						
1,1-Dichloroethane	7440-66-6	ug/L	4/4/2011		68.6								<1	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/13/2011	<1	79.8	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	12/5/2011				<1																		
1,1-Dichloroethane	7440-66-6	ug/L	4/11/2012	<1	90.8	<1	<1	<1	<1	<1		<1	1.1	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	6/25/2012					<1																	
1,1-Dichloroethane	7440-66-6	ug/L	8/1/2012							<1															
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2012	<1	84.6	<1	<1	<1	<1	<1		<1		<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	12/13/2012																						
1,1-Dichloroethane	7440-66-6	ug/L	2/4/2013																						
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2013	<1	117	<1	<1	<1	<1	<1		<1		<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	7/10/2013																						
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2013	<1	133	<1		<1	<1	<1	<1	<1	2.45	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	6/2/2014	<1	200	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/15/2014	<1	238	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	4/6/2015	<1	199	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/5/2015	<1	218	<1	<1	<1	<1	<1		<1	0.876J	<1	<1										

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
1,1-Dichloroethene	7440-66-6	ug/L	3/3/2010									<2	<2	<2	<2	<2	<2	<2	<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	5/10/2010	<2	7.85	<2	<2	<2	<2	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	7/8/2010									<2					<2	<2	<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	9/13/2010									<2					<2	<2	<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	11/1/2010	<2	11.2	<2		<2	<2	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	1/10/2011									<2					<2	<2	<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	4/4/2011		6.75					<2		<2					<2	<2	<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	10/13/2011	<2	6.55	<2		<2	<2	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	12/5/2011				<2											<2	<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	4/11/2012	<2	5.96	<2	<2	<2	<2	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	6/25/2012				<2	<2										<2	<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	8/1/2012							<2	<2										<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2012	<2	5.31	<2	<2	<2	<2		<2	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	12/13/2012								<2										<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	2/4/2013								<2										<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	3/30/2013	<2	7.43	<2	<2	<2	<2		<2	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	7/10/2013															<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/7/2013	<2	6.94	<2			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	6/2/2014	<2	6.53	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/15/2014	<2	7.67	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/6/2015	<2	6.78	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/5/2015	<2	4.93	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/4/2016	<2	6.62	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/17/2016	<2	10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/17/2017	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2017	<2	4.4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/20/2018		4.8									<2	<2				<2	<2					
1,1-Dichloroethene	7440-66-6	ug/L	4/23/2018	<2								<2	<2		<2	<2	<2								
1,1-Dichloroethene	7440-66-6	ug/L	4/25/2018						<2																
1,1-Dichloroethene	7440-66-6	ug/L	4/30/2018			<2	<2	<2										<2							
1,1-Dichloroethene	7440-66-6	ug/L	5/1/2018								<2										<2	<2			
1,1-Dichloroethene	7440-66-6	ug/L	5/2/2018																						
1,1-Dichloroethene	7440-66-6	ug/L	10/16/2018	<2	6	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/16/2019	<2	5.32	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/1/2019	<2	4.42	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	3/30/2020	<2	<2.0	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/7/2020	<2	3.5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/13/2021	<1	2.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	10/20/2021					<1	<1			<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	5/2/2022					<1	<1	<1	<1	<1	<1	<1							<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	10/14/2022					<1	<1			<1	<1	<1							<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	5/1/2023	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2			<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/16/2023				<2	<2	<2	<2		<2	<2	<2	<2						<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/29/2024					<2		<2	<2	<2	<2	<2	<2										
1,1-Dichloroethene	7440-66-6	ug/L	10/10/2024						<2.00		<2	<2.00	<2	<2	<2						<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/9/2024																						
1,1-Dichloroethene	7440-66-6	ug/L	10/15/2024										<2.00										<2.00	<2.00	<2.00
1,1-Dichloroethene	7440-66-6	ug/L	10/14/2024																		<2.00	<2.00		<2.00	<2.00
1,1-Dichloropropene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1	<1															
1,1-Dichloropropene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1		<1	<1	<1					
1,1-Dichloropropene	7440-66-6	ug/L	4/4/2011									<1	<1	<1	<1		<1	<1	<1	<1					
1,1-Dichloropropene	7440-66-6	ug/L	10/11/2012								<1														
1,1-Dichloropropene	7440-66-6	ug/L	7/10/2013																		<1	<1	<1	<1	<1
1,1-Dichloropropene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1				<1	<1	<1	<1		<1	<1	<1					
1,1-Dichloropropene	7440-66-6	ug/L	4/4/2016									<1	<1	<1	<1		<1	<1	<1	<1					
1,1-Dichloropropene	7440-66-6	ug/L	5/1/2018																		<1	<1			
1,1-Dichloropropene	7440-66-6	ug/L	5/2/2018																				<1	<1	<1
1,1-Dichloropropene	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	<1				<1	<1	<1	<1		<1	<1	<1					
1,1-Dichloropropene	7440-66-6	ug/L	10/20/2021									<1	<1	<1	<1		<1	<1	<1	<1					
1,1-Dichloropropene	7440-66-6	ug/L	5/1/2023																		<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1	<1															
1,2,3-Trichloropropane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1	<1															
1,2,3-Trichloropropane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1	<1															
1,2,3-Trichloropropane	7440-66-6	ug/L	9/14/2008	<1	<1																				

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
1,2,3-Trichloropropane	7440-66-6	ug/L	5/1/2018								<1										<1			<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	5/2/2018																							
1,2,3-Trichloropropane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/20/2021					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	5/2/2022					<1	<1	<1	<1	<1	<1	<1							<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/14/2022				<1	<1	<1	<1	<1	<1	<1	<1							<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	5/1/2023	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/16/2023				<1	<1	<1	<1	<1	<1	<1	<1					<1	<1	<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	4/29/2024				<1	<1	<1	<1	<1	<1	<1	<1							<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/10/2024						<1.00	<1	<1	<1.00	<1								<1	<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/9/2024										<1.00													
1,2,3-Trichloropropane	7440-66-6	ug/L	10/15/2024										<1.00													
1,2,3-Trichloropropane	7440-66-6	ug/L	10/14/2024																		<1.00	<1.00	<1.00	<1.00	<1.00	
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10																
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10	<10						
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3	
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	6/2/2014																				<10.1	<10.1	<10.1	
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	10/15/2014																				<10	<10	<10	
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1						
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	4/4/2016														<10	<10								
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3				
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	5/2/2018																							
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4	
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	10/20/2021									<8					<8	<8								
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
1,2,4-Trichlorobenzene	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5	<5	<5																
1,2,4-Trichlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
1,2,4-Trichlorobenzene	7440-66-6	ug/L	4/4/2011									<5					<5	<5								
1,2,4-Trichlorobenzene	7440-66-6	ug/L	10/11/2012								<5															
1,2,4-Trichlorobenzene	7440-66-6	ug/L	7/10/2013																							
1,2,4-Trichlorobenzene	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5				<5	<5	<5	<5			<5	<5		<5	<5	<5	<5	
1,2,4-Trichlorobenzene	7440-66-6	ug/L	4/4/2016									<5					<5	<5								
1,2,4-Trichlorobenzene	7440-66-6	ug/L	5/1/2018																		<5	<5				
1,2,4-Trichlorobenzene	7440-66-6	ug/L	5/2/2018																							
1,2,4-Trichlorobenzene	7440-66-6	ug/L	3/30/2020	<5	<50	<5	<5	<5	<5				<5	<5	<5	<5			<5	<5			<5	<5	<5	
1,2,4-Trichlorobenzene	7440-66-6	ug/L	10/20/2021									<1					<1	<1								
1,2,4-Trichlorobenzene	7440-66-6	ug/L	5/1/2023																		<5	<5	<5	<5	<5	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10	<10																
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10	<10																
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10	<10																
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10	<10																
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10	<10																
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/7/2009																							
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	9/2/2009									<10	<10	<10	<10	<10			<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	1/2/2010										<10	<10	<10	<10			<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/3/2010									<10	<10	<10	<10	<10	<10	<10	<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/8/2010									<10	<10	<10	<10	<10	<10	<10	<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	9/13/2010									<10	<10	<10	<10	<10	<10	<10	<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	11/1/2010	<10	<10	<10		<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	1/10/2011									<10	<10	<10	<10	<10	<10	<10	<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/13/2011	<10	<10	<10		<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	12/5/2011																							
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/11/2012	<10	<10	<10		<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	6/25/2012									<10	<10	<10	<10	<10	<10	<10	<10	<10						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	8/																							

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/14/2024																		<1.20	<1.20			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10	<10															
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10	<10															
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10	<10															
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10	<10															
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10	<10															
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	7/7/2009										<10	<10	<10	<10			<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	9/2/2009										<10	<10	<10	<10			<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	1/2/2010										<10	<10	<10	<10			<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	3/3/2010										<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	7/8/2010										<10	<10	<10	<10			<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	9/13/2010										<10	<10	<10	<10	<10	<10	<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	11/1/2010	<10	<10	<10		<10	<10	<10			<10	<10	<10	<10			<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	1/10/2011										<10	<10	<10	<10			<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/4/2011										<10	<10	<10	<10			<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/13/2011	<10	<10	<10		<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	12/5/2011										<10	<10	<10	<10			<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	6/25/2012										<10	<10	<10	<10									
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	8/1/2012										<10	<10	<10	<10									
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	12/13/2012										<10	<10	<10	<10			<10	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	2/4/2013										<10	<10	<10	<10									
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	7/10/2013										<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/7/2013	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	6/2/2014	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/15/2014	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/6/2015	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/5/2015	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/4/2016	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/17/2016	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/17/2017	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/11/2017	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/20/2018		<0.13														<0.13	<0.13					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/23/2018	<0.13					<0.13			<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		<0.13	<0.13					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/25/2018																						
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/30/2018			<0.13	<0.13	<0.13										<0.13							
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/1/2018								<0.13										<0.13	<0.13			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/2/2018																						
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/16/2018	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/16/2019	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/1/2019	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	3/30/2020	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/7/2020	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/20/2021										<1	<0.02	<0.02	<0.02	<1	<1							
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/2/2022										<0.02	<0.02	<0.02	<0.02									
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/14/2022										<0.02	<0.02	<0.02	<0.02									
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/1/2023	<0.34		<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34		<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/16/2023										<0.34	<0.34	<0.34	<0.34									
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/29/2024										<0.34	<0.34	<0.34	<0.34									
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/10/2024										<0.340	<0.34	<0.34	<0.34</									

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D
1,2-Dichlorobenzene	7440-66-6	ug/L	5/2/2018																				<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/1/2019	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/20/2021					<1	<1	<1	<1	<1	<1	<1							<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	5/2/2022					<1	<1	<1	<1	<1	<1	<1			<1	<1			<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/14/2022					<1	<1	<1	<1	<1	<1	<1							<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	5/1/2023	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/16/2023					<1	<1	<1	<1	<1	<1								<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	4/29/2024					<1	<1	<1	<1	<1	<1								<1	<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/10/2024						<1.00			<1.00														
1,2-Dichlorobenzene	7440-66-6	ug/L	10/9/2024										<1.00													
1,2-Dichlorobenzene	7440-66-6	ug/L	10/15/2024																							
1,2-Dichlorobenzene	7440-66-6	ug/L	10/14/2024																		<1.00	<1.00	<1.00	<1.00	<1.00	
1,2-Dichloroethane	7440-66-6	ug/L	2/27/2008	<1		<1	<1	<1	<1	<1																
1,2-Dichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1	<1																
1,2-Dichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1	<1																
1,2-Dichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1	<1																
1,2-Dichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1	<1																
1,2-Dichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1	<1																
1,2-Dichloroethane	7440-66-6	ug/L	7/7/2009							<1	<1		<1	<1	<1	<1			<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	9/2/2009							<1	<1		<1	<1	<1	<1			<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<1	<2	<2	<1	<1			<2	<2	<2	<1			<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	1/2/2010							<1			<1	<1	<1	<1			<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	3/3/2010							<1			<1	<1	<1	<1	<1	<1	<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	7/8/2010							<1			<1	<1	<1	<1	<1	<1	<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	9/13/2010							<1			<1	<1	<1	<1	<1	<1	<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1		<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	1/10/2011							<1			<1	<1	<1	<1	<1	<1	<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	4/4/2011							<1			<1	<1	<1	<1	<1	<1	<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	12/5/2011				<1			<1			<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	6/25/2012				<1			<1			<1	<1	<1	<1	<1	<1	<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	8/1/2012							<1																
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	12/13/2012							<1		<1		<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	2/4/2013							<1													<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1		<1	<1		<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	7/10/2013								<1	<1		<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/7/2013	<1	<1	<1			<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.339J	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.469J	0.43J	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	4/17/2017	0.188J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.374J	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	4/20/2018		<1								<1	<1					<1	<1						
1,2-Dichloroethane	7440-66-6	ug/L	4/23/2018	<1								<1	<1		0.204J	<1	<1									
1,2-Dichloroethane	7440-66-6	ug/L	4/25/2018						<1																	
1,2-Dichloroethane	7440-66-6	ug/L	4/30/2018			<1	<1	<1																		
1,2-Dichloroethane	7440-66-6	ug/L	5/1/2018								<1							<1					<1			
1,2-Dichloroethane	7440-66-6	ug/L	5/2/2018																							
1,2-Dichloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	&																	

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1			<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	7/10/2013																							
1,2-Dichloropropane	7440-66-6	ug/L	10/7/2013	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/15/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	4/20/2018		<1									<1		<1			<1	<1						
1,2-Dichloropropane	7440-66-6	ug/L	4/23/2018	<1								<1	<1		<1	<1										
1,2-Dichloropropane	7440-66-6	ug/L	4/25/2018						<1																	
1,2-Dichloropropane	7440-66-6	ug/L	4/30/2018			<1	<1	<1										<1								
1,2-Dichloropropane	7440-66-6	ug/L	5/1/2018								<1										<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	5/2/2018																							
1,2-Dichloropropane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	4/16/2019	<1	0.416J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/1/2019	<1	0.504J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/7/2020	<1	0.597J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/20/2021					<1	<1			<1	<1				<1	<1			<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	5/2/2022					<1	<1	<1	<1	<1	<1								<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/14/2022					<1	<1			<1	<1								<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	5/1/2023	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/16/2023					<1	<1			<1	<1								<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	4/29/2024					<1	<1	<1	<1	<1	<1								<1	<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/10/2024						<1.00			<1.00														
1,2-Dichloropropane	7440-66-6	ug/L	10/9/2024										<1.00													
1,2-Dichloropropane	7440-66-6	ug/L	10/15/2024																							
1,2-Dichloropropane	7440-66-6	ug/L	10/14/2024																		<1.00	<1.00	<1.00	<1.00	<1.00	
1,3,5-Trinitrobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
1,3,5-Trinitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10		<10	<10							
1,3,5-Trinitrobenzene	7440-66-6	ug/L	4/4/2011									<10					<10	<10								
1,3,5-Trinitrobenzene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3	
1,3,5-Trinitrobenzene	7440-66-6	ug/L	6/2/2014																					<10.1		
1,3,5-Trinitrobenzene	7440-66-6	ug/L	10/15/2014																					<10		
1,3,5-Trinitrobenzene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3		<10	<10	<11.1	<10.1					
1,3,5-Trinitrobenzene	7440-66-6	ug/L	4/4/2016									<10					<10									
1,3,5-Trinitrobenzene	7440-66-6	ug/L	5/1/2018																							
1,3,5-Trinitrobenzene	7440-66-6	ug/L	5/2/2018																		<10.4	<10.3				
1,3,5-Trinitrobenzene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1				<10.4	<10.4					
1,3,5-Trinitrobenzene	7440-66-6	ug/L	10/20/2021									<8					<8	<8								
1,3,5-Trinitrobenzene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
1,3-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1	<1																
1,3-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1			<1	<1						
1,3-Dichlorobenzene	7440-66-6	ug/L	4/4/2011									<1	<1	<1	<1	<1	<1	<4	<1	<1						
1,3-Dichlorobenzene	7440-66-6	ug/L	10/11/2012								<1															
1,3-Dichlorobenzene	7440-66-6	ug/L	7/10/2013																		<1	<1	<1	<1	<1	
1,3-Dichlorobenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1				<1	<1	<1	<1			<1	<1						
1,3-Dichlorobenzene	7440-66-6	ug/L	4/4/2016									<1	<1	<1	<1	<1	<1	<1	<1	<1						
1,3-Dichlorobenzene	7440-66-6	ug/L	5/1/2018																			<1	<1	<1	<1	
1,3-Dichlorobenzene	7440-66-6	ug/L	5/2/2018																			<1	<1	<1	<1	
1,3-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	<1				<1	<1	<1	<1			<1	<1						
1,3-Dichlorobenzene	7440-66-6	ug/L	10/20/2021									<1	<1	<1	<1	<1	<1	<1	<1	<1						
1,3-Dichlorobenzene	7440-66-6	ug/L	5/1/2023																			<1	<1	<1	<1	
1,3-Dichloropropane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1	<1																
1,3-Dichloropropane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1						
1,3-Dichloropropane	7440-66-6	ug/L	4/4/2011									<1	<1	<1	<1	<1	<1	<1	<1	<1						
1,3-Dichloropropane	7440-66-6	ug/L	10/11/2012								<1															
1,3-Dichloropropane	7440-66-6	ug/L	7/10/2013																		<1	<1	<1	<1	<1	
1,3-Dichloropropane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1				<1	<1	<1	<1			<1	<1					</	

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D
1,4-Dichlorobenzene	7440-66-6	ug/L	10/13/2011	<1	<1	<1		<1	<1	<1		<1	<1	<1	<1	1.44	<1	<1	<1	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	12/5/2011				<1													<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	6/25/2012					<1		<1															
1,4-Dichlorobenzene	7440-66-6	ug/L	8/1/2012							<1	<1										<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	1.47	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	12/13/2012								<1										<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	2/4/2013							<1										<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	7/10/2013																	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/7/2013	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.465J	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.361J	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.368J	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/20/2018		<1															<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/23/2018	<1								<1	<1	<1	<1	0.208J	<1		<1	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	4/25/2018						<1																
1,4-Dichlorobenzene	7440-66-6	ug/L	4/30/2018			<1	<1	<1			<1							<1							
1,4-Dichlorobenzene	7440-66-6	ug/L	5/1/2018																		<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	5/2/2018																						
1,4-Dichlorobenzene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.23J	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/20/2021														<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	5/2/2022							<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/14/2022							<1	<1	<1	<1	<1	<1				<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	5/1/2023	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/16/2023						<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/29/2024					<1	<1	<1	<1	<1	<1	<1						<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/10/2024						<1.00			<1.00	<1.00												
1,4-Dichlorobenzene	7440-66-6	ug/L	10/9/2024																						
1,4-Dichlorobenzene	7440-66-6	ug/L	10/15/2024																						
1,4-Dichlorobenzene	7440-66-6	ug/L	10/14/2024																		<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10		<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10					
1,4-Naphthoquinone	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
1,4-Naphthoquinone	7440-66-6	ug/L	7/10/2013															<10			<10.2	<10.1	<10.1	<106	<10.3
1,4-Naphthoquinone	7440-66-6	ug/L	6/2/2014																				<10.1	<10.1	<10.3
1,4-Naphthoquinone	7440-66-6	ug/L	10/15/2014																				<10.1	<10.1	<10.3
1,4-Naphthoquinone	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
1,4-Naphthoquinone	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
1,4-Naphthoquinone	7440-66-6	ug/L	5/1/2018															<10							
1,4-Naphthoquinone	7440-66-6	ug/L	5/2/2018																		<10.4	<10.3	<10.4	<10.5	<10.4
1,4-Naphthoquinone	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1		<8	<8	<10.4	<10.4		<10.4	<10.5	<10.4
1,4-Naphthoquinone	7440-66-6	ug/L	10/20/2021									<8					<8	<8			<10.6	<10	<9.8	<10.6	<10
1,4-Naphthoquinone	7440-66-6	ug/L	5/1/2023																						
1,4-Phenylenediamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10		<10	<10						
1,4-Phenylenediamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10		<10	<10						
1,4-Phenylenediamine	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
1,4-Phenylenediamine	7440-66-6	ug/L	7/10/2013															<10			<10.2	<10.1	<10.1	<106	<10.3
1,4-Phenylenediamine	7440-66-6	ug/L	6/2/2014																				<10.1	<10.1	<10.3
1,4-Phenylenediamine	7440-66-6	ug/L	10/15/2014																				<10.1	<10.1	<10.3
1,4-Phenylenediamine	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3		<10	<10	<11.1	<10.1				
1,4-Phenylenediamine	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
1,4-Phenylenediamine	7440-66-6	ug/L	5/1/2018															<10							

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A		
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D		
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3		<10.4	<10.5	<10.4	
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	5/2/2018																								
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4							
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	10/20/2021									<8					<8	<8									
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10		
2,4,5-T [2C]	7440-66-6	ug/L	4/14/2009	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2																	
2,4,5-T [2C]	7440-66-6	ug/L	5/10/2010	<0.5	<0.5	<0.5	<0.5	<0.5	<0.54	<0.5			<0.5	<0.5	<0.5	<0.5			<0.5	<0.5							
2,4,5-T [2C]	7440-66-6	ug/L	4/4/2011														<0.5	<0.54									
2,4,5-T [2C]	7440-66-6	ug/L	10/11/2012								<1																
2,4,5-T [2C]	7440-66-6	ug/L	7/10/2013																								
2,4,5-T [2C]	7440-66-6	ug/L	10/5/2015	<1.02	<1.06	<1.32	<1.1	<1.05	<1.02				<1.06	<1.02	<1.01	<1.02			<1	<1.02	<1.06	<1.02	<1.02	<1.14	<1.09		
2,4,5-T [2C]	7440-66-6	ug/L	4/4/2016									<1.04					<1.03	<1.01									
2,4,5-T [2C]	7440-66-6	ug/L	5/1/2018																		<1.04	<1.03					
2,4,5-T [2C]	7440-66-6	ug/L	5/2/2018																				<1.05	<1.11	<1.06		
2,4,5-T [2C]	7440-66-6	ug/L	3/30/2020	<1.04	<1.04	<1.05	<1.04	<1.07	<1.04				<1.05	<1.05	<1.07	<1.04			<1.04	<1.04							
2,4,5-T [2C]	7440-66-6	ug/L	10/20/2021									<0.5					0.1J	0.08J									
2,4,5-T [2C]	7440-66-6	ug/L	5/1/2023																		<1.13	<1.13	<1.08	<1.09	<1.12		
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/14/2009	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2																	
2,4,5-TP [Silvex]	7440-66-6	ug/L	9/2/2009							<0.2																	
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/25/2009							<0.2																	
2,4,5-TP [Silvex]	7440-66-6	ug/L	1/2/2010							<0.2																	
2,4,5-TP [Silvex]	7440-66-6	ug/L	5/10/2010	<0.5	<0.5	<0.5	<0.5	<0.5	<0.54	<0.5			<0.5	<0.5	<0.5	<0.5			<0.5	<0.5							
2,4,5-TP [Silvex]	7440-66-6	ug/L	11/1/2010							<0.5																	
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/4/2011							<0.48		<0.5					<0.5	<0.54									
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/13/2011							<1																	
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/11/2012							<1																	
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/11/2012								<1																
2,4,5-TP [Silvex]	7440-66-6	ug/L	3/30/2013								<1																
2,4,5-TP [Silvex]	7440-66-6	ug/L	7/10/2013																		<1.06	<1.02	<1.02	<1.14	<1.09		
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/7/2013							<1.08	<1.04																
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/5/2015	<1.02	<1.06	<1.32	<1.1	<1.05	<1.02				<1.06	<1.02	<1.01	<1.02			<1	<1.02							
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/4/2016									<1.04					<1.03	<1.01									
2,4,5-TP [Silvex]	7440-66-6	ug/L	5/1/2018																		<1.04	<1.03					
2,4,5-TP [Silvex]	7440-66-6	ug/L	5/2/2018																				<1.05	<1.11	<1.06		
2,4,5-TP [Silvex]	7440-66-6	ug/L	3/30/2020	<1.04	<1.04	<1.05	<1.04	<1.07	<1.04				<1.05	<1.05	<1.07	<1.04			<1.04	<1.04							
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/20/2021									<0.5					<0.5	<0.5									
2,4,5-TP [Silvex]	7440-66-6	ug/L	5/1/2023																		<1.13	<1.13	<1.08	<1.09	<1.12		
2,4,5-Trichlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																	
2,4,5-Trichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10							
2,4,5-Trichlorophenol	7440-66-6	ug/L	4/4/2011									<10					<10	<10									
2,4,5-Trichlorophenol	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3		
2,4,5-Trichlorophenol	7440-66-6	ug/L	6/2/2014																				<10.1				
2,4,5-Trichlorophenol	7440-66-6	ug/L	10/15/2014																				<10				
2,4,5-Trichlorophenol	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1							
2,4,5-Trichlorophenol	7440-66-6	ug/L	4/4/2016									<10					<10	<10	<11.1	<10.1							
2,4,5-Trichlorophenol	7440-66-6	ug/L	5/1/2018																		1.04J	<10.3		<10.4	<10.5	<10.4	
2,4,5-Trichlorophenol	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4		
2,4,5-Trichlorophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3																		
2,4,5-Trichlorophenol	7440-66-6	ug/L	10/20/2021									<8					<8	<8	<10.4	<10.4							
2,4,5-Trichlorophenol	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10		
2,4,6-Trichlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																	
2,4,6-Trichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10																	
2,4,6-Trichlorophenol	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10	<10							
2,4,6-Trichlorophenol	7440-66-6	ug/L	7/10/2013																				<10.2	<10.1	<10.1	<106	<10.3
2,4,6-Trichlorophenol	7440-66-6	ug/L	6/2/2014																				<10.1				
2,4,6-Trichlorophenol	7440-66-6	ug/L	10/15/2014																				<10				
2,4,6-Trichlorophenol	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1							
2,4,6-Trichlorophenol	7440-66-6	ug/L	4/4/2016									<10					<10	<10									
2,4,6-Trichlorophenol	7440-66-6	ug/L	5/1/2018																		1.01J	<10.3					
2,4,6-Trichlorophenol	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4		
2,4,6-Trichlorophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4		
2,4,6-Trichlorophenol	7440-66-6	ug/L	10/20/2021									<8					<8	<8									
2,4,6-Trichlorophenol	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10		
2,4-D [2C]	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1	<1																	
2,4-D [2C]	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1.1	<1									<1	<1							
2,4-D [2C]	7440-66-6	ug/L	4/4/2011																								
2,4-D [2C]	7440-66-6	ug/L	10/11/2012								<1						<1	<1.1									
2,4-D [2C]	7440-66-6	ug/L	7/10/2013																								
2,4-D [2C]	7440-66-6	ug/L	10/5/2015	<1.02	<1.06	<1.32	<1.1	<1.05																			

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
2,4-Dimethylphenol	7440-66-6	ug/L	10/20/2021									<8					<8	<8								
2,4-Dimethylphenol	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
2,4-Dinitrophenol	7440-66-6	ug/L	4/14/2009	<20	<20	<20	<20	<20	<20	<20																
2,4-Dinitrophenol	7440-66-6	ug/L	5/10/2010	<20	<20	<20	<20	<20	<20	<20			<20	<20	<20	<20	<20	<20	<20	<20						
2,4-Dinitrophenol	7440-66-6	ug/L	4/4/2011									<20					<20	<20	<20	<20						
2,4-Dinitrophenol	7440-66-6	ug/L	7/10/2013																		<20.4	<20.2	<20.2	<213	<20.6	
2,4-Dinitrophenol	7440-66-6	ug/L	6/2/2014																				<20.2	<20		
2,4-Dinitrophenol	7440-66-6	ug/L	10/15/2014																							
2,4-Dinitrophenol	7440-66-6	ug/L	10/5/2015	<20.8	<20.4	<20	<21.1	<21.1	<20.2				<21.5	<21.3	<21.1	<20.6			<22.2	<20.2						
2,4-Dinitrophenol	7440-66-6	ug/L	4/4/2016									<20					<20	<20				<20.8	<20.6			
2,4-Dinitrophenol	7440-66-6	ug/L	5/1/2018																							
2,4-Dinitrophenol	7440-66-6	ug/L	5/2/2018																			<20.8	<21.1	<20.8		
2,4-Dinitrophenol	7440-66-6	ug/L	3/30/2020	<20.8	<20.8	<21.5	<20.6	<21.1	<20.6				<20.8	<20.8	<21.1	<20.2			<20.8	<20.8					<20.8	
2,4-Dinitrophenol	7440-66-6	ug/L	10/20/2021									<8					<8	<8					<21.1	<21.3	<20	
2,4-Dinitrophenol	7440-66-6	ug/L	5/1/2023																		<21.3	<20	<19.6	<21.3	<20	
2,4-Dinitrotoluene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
2,4-Dinitrotoluene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
2,4-Dinitrotoluene	7440-66-6	ug/L	4/4/2011									<10					<10	<10								
2,4-Dinitrotoluene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3	
2,4-Dinitrotoluene	7440-66-6	ug/L	6/2/2014																				<10.1	<10		
2,4-Dinitrotoluene	7440-66-6	ug/L	10/15/2014																							
2,4-Dinitrotoluene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1			<10	<10.8	<10.6	<10.5	<10.3		<10	<10	<11.1	<10.1					
2,4-Dinitrotoluene	7440-66-6	ug/L	4/4/2016														<10	<10								
2,4-Dinitrotoluene	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3				
2,4-Dinitrotoluene	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4	
2,4-Dinitrotoluene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1		<10.4	<10.4							
2,4-Dinitrotoluene	7440-66-6	ug/L	10/20/2021																							
2,4-Dinitrotoluene	7440-66-6	ug/L	5/1/2023									<8					<8	<8	<10.4	<10.4						
2,6-Dichlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
2,6-Dichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
2,6-Dichlorophenol	7440-66-6	ug/L	4/4/2011									<10					<10	<10	<10	<10						
2,6-Dichlorophenol	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3	
2,6-Dichlorophenol	7440-66-6	ug/L	6/2/2014																				<10.1	<10		
2,6-Dichlorophenol	7440-66-6	ug/L	10/15/2014																							
2,6-Dichlorophenol	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1			<10	<10.8	<10.6	<10.5	<10.3		<10	<10	<11.1	<10.1					
2,6-Dichlorophenol	7440-66-6	ug/L	4/4/2016																							
2,6-Dichlorophenol	7440-66-6	ug/L	5/1/2018														<10	<10				<10.4	<10.3	<10.5	<10.4	
2,6-Dichlorophenol	7440-66-6	ug/L	5/2/2018																							
2,6-Dichlorophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1		<10.4	<10.4							
2,6-Dichlorophenol	7440-66-6	ug/L	10/20/2021									<8					<8	<8								
2,6-Dichlorophenol	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
2,6-Dinitrotoluene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
2,6-Dinitrotoluene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
2,6-Dinitrotoluene	7440-66-6	ug/L	4/4/2011									<10					<10	<10	<10	<10						
2,6-Dinitrotoluene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3	
2,6-Dinitrotoluene	7440-66-6	ug/L	6/2/2014																				<10.1	<10		
2,6-Dinitrotoluene	7440-66-6	ug/L	10/15/2014																							
2,6-Dinitrotoluene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1			<10	<10.8	<10.6	<10.5	<10.3		<10	<10	<11.1	<10.1					
2,6-Dinitrotoluene	7440-66-6	ug/L	4/4/2016														<10	<10								
2,6-Dinitrotoluene	7440-66-6	ug/L	5/1/2018																			<10.4	<10.3	<10.5	<10.4	
2,6-Dinitrotoluene	7440-66-6	ug/L	5/2/2018																							
2,6-Dinitrotoluene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4						
2,6-Dinitrotoluene	7440-66-6	ug/L	10/20/2021									<8					<8	<8								
2,6-Dinitrotoluene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
2-Acetylaminofluorene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10									<10	<10						
2-Acetylaminofluorene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
2-Acetylaminofluorene	7440-66-6	ug/L	4/4/2011									<10					<10	<10	<10	<10						
2-Acetylaminofluorene	7440-66-6	ug/L	7/10/2013																			<10.2	<10.1	<10.1	<106	<10.3
2-Acetylaminofluorene	7440-66-6	ug/L	6/2/2014																					<10.1	<10	
2-Acetylaminofluorene	7440-66-6	ug/L	10/15/2014																							
2-Acetylaminofluorene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1			<10	<10.8	<10.6	<10.5	<10.3		<10	<10	<11.1	<10.1					
2-Acetylaminofluorene	7440-66-6	ug/L	4/4/2016														<10	<10								
2-Acetylaminofluorene	7440-66-6	ug/L	5/1/2018																							
2-Acetylaminofluorene	7440-66-6	ug/L	5/2/2018																			<10.4	<10.3	<10.5	<10.4	
2-Acetylaminofluorene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4						
2-Acetylaminofluorene	7440-66-6	ug/L	10/20/2021									<8					<8	<8								
2-Acetylaminofluorene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
2-Butanone (MEK)	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10	<10																
2-Butanone (MEK)	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10</																	

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
2-Butanone (MEK)	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	4/20/2018		<10				<10	<10	<10			<10		<10	<10	<10	<10	<10						
2-Butanone (MEK)	7440-66-6	ug/L	4/23/2018	<10								<10	<10		<10	<10	<10		<10	<10						
2-Butanone (MEK)	7440-66-6	ug/L	4/25/2018						<10																	
2-Butanone (MEK)	7440-66-6	ug/L	4/30/2018			<10	<10	<10										<10								
2-Butanone (MEK)	7440-66-6	ug/L	5/1/2018								<10										<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	5/2/2018																			<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	3/30/2020	<10	<100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	11.6	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
2-Butanone (MEK)	7440-66-6	ug/L	10/20/2021					<5	<5			<5	<5				<5	<5			<5	<5	<5	<5	<5	
2-Butanone (MEK)	7440-66-6	ug/L	5/2/2022					<10	<10	<10	<10	<10	<10				<5				<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	10/14/2022					<10	<10			<10	<10								<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	5/1/2023	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	10/16/2023					<10	<10			<10	<10								<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	4/29/2024					<10	<10	<10	<10	<10	<10	<10							<10	<10	<10	<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	10/10/2024						<10.0			<10.0														
2-Butanone (MEK)	7440-66-6	ug/L	10/9/2024										<10.0													
2-Butanone (MEK)	7440-66-6	ug/L	10/15/2024																							
2-Butanone (MEK)	7440-66-6	ug/L	10/14/2024																		<10.0	<10.0	<10.0	<10.0	<10.0	
2-Chloronaphthalene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
2-Chloronaphthalene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
2-Chloronaphthalene	7440-66-6	ug/L	4/4/2011									<10					<10	<10								
2-Chloronaphthalene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3	
2-Chloronaphthalene	7440-66-6	ug/L	6/2/2014																					<10.1		
2-Chloronaphthalene	7440-66-6	ug/L	10/15/2014																					<10		
2-Chloronaphthalene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1			<10.8	<10.6	<10.5	<10.3	<10.3	<10	<10	<11.1	<10.1						
2-Chloronaphthalene	7440-66-6	ug/L	4/4/2016									<10					<10	<10								
2-Chloronaphthalene	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3				
2-Chloronaphthalene	7440-66-6	ug/L	5/2/2018																			<10.3	<10.4	<10.5	<10.4	
2-Chloronaphthalene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1		<8	<8	<10.4	<10.4					
2-Chloronaphthalene	7440-66-6	ug/L	10/20/2021									<8					<8	<8								
2-Chloronaphthalene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
2-Chlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
2-Chlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10										
2-Chlorophenol	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10	<10						
2-Chlorophenol	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3	
2-Chlorophenol	7440-66-6	ug/L	6/2/2014																					<10.1		
2-Chlorophenol	7440-66-6	ug/L	10/15/2014																					<10		
2-Chlorophenol	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1			<10.8	<10.6	<10.5	<10.3	<10.3	<10	<10	<11.1	<10.1						
2-Chlorophenol	7440-66-6	ug/L	4/4/2016									<10					<10	<10								
2-Chlorophenol	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3				
2-Chlorophenol	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4	
2-Chlorophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3			<10.4	<10.4	<10.5	<10.1	<10.1			<10.4	<10.4						
2-Chlorophenol	7440-66-6	ug/L	10/20/2021									<8					<8	<8								
2-Chlorophenol	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
2-Hexanone	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10	<10																
2-Hexanone	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10	<10																
2-Hexanone	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10	<10																
2-Hexanone	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10	<10																
2-Hexanone	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10	<10																
2-Hexanone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
2-Hexanone	7440-66-6	ug/L	7/7/2009																<10	<10						
2-Hexanone	7440-66-6	ug/L	9/2/2009										<10	<10	<10	<10		<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10		<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	1/2/2010										<10	<10	<10	<10					<10	<10				
2-Hexanone	7440-66-6	ug/L	3/3/2010									<10	<10	<10	<10	<10		<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	5/10/2010	<20	<20	<20	<20	<20	<20	<20		<20	<20	<20	<20	<20	<10	<10	<20	<20	<20	<20				
2-Hexanone	7440-66-6	ug/L	7/8/2010									<10														

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
2-Hexanone	7440-66-6	ug/L	5/2/2022					<5	<5	<5	<5	<5	<5	<5							<5	<5	<5	<5	<5
2-Hexanone	7440-66-6	ug/L	10/14/2022					<5	<5			<5	<5								<5	<5	<5	<5	<5
2-Hexanone	7440-66-6	ug/L	5/1/2023	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/16/2023					<10	<10			<10	<10								<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/29/2024					<10	<10	<10	<10	<10	<10								<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/10/2024						<10.0																
2-Hexanone	7440-66-6	ug/L	10/9/2024									<10.0	<10.0												
2-Hexanone	7440-66-6	ug/L	10/15/2024																						
2-Hexanone	7440-66-6	ug/L	10/14/2024																		<10.0	<10.0	<10.0	<10.0	<10.0
2-Methylnaphthalene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
2-Methylnaphthalene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10															
2-Methylnaphthalene	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
2-Methylnaphthalene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	156	<10.3
2-Methylnaphthalene	7440-66-6	ug/L	10/7/2013							<10.2	<10.1													<10.1	
2-Methylnaphthalene	7440-66-6	ug/L	6/2/2014																					<10.1	
2-Methylnaphthalene	7440-66-6	ug/L	10/15/2014																					<10	
2-Methylnaphthalene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
2-Methylnaphthalene	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
2-Methylnaphthalene	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
2-Methylnaphthalene	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
2-Methylnaphthalene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
2-Methylnaphthalene	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
2-Methylnaphthalene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
2-Methylphenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
2-Methylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
2-Methylphenol	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
2-Methylphenol	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	1780	<10.3
2-Methylphenol	7440-66-6	ug/L	10/7/2013							<10.2	<10.1													<10.1	
2-Methylphenol	7440-66-6	ug/L	6/2/2014																					<10.1	
2-Methylphenol	7440-66-6	ug/L	10/15/2014																					<10	
2-Methylphenol	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
2-Methylphenol	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
2-Methylphenol	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
2-Methylphenol	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
2-Methylphenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
2-Methylphenol	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
2-Methylphenol	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
2-Naphthylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
2-Naphthylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
2-Naphthylamine	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
2-Naphthylamine	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
2-Naphthylamine	7440-66-6	ug/L	6/2/2014																					<10.1	
2-Naphthylamine	7440-66-6	ug/L	10/15/2014																					<10	
2-Naphthylamine	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
2-Naphthylamine	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
2-Naphthylamine	7440-66-6	ug/L	5/1/2018																				<10.4	<10.3	
2-Naphthylamine	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
2-Naphthylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
2-Naphthylamine	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
2-Naphthylamine	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
2-Nitroaniline	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
2-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
2-Nitroaniline	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10							
2-Nitroaniline	7440-66-6	ug/L	7/10/2013																					<106	<10.3
2-Nitroaniline	7440-66-6	ug/L	6/2/2014																		<10.2	<10.1	<10.1	<10.1	
2-Nitroaniline	7440-66-6	ug/L	10/15/2014																					<10	
2-Nitroaniline	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
2-Nitroaniline	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
2-Nitroaniline	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
2-Nitroaniline	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
2-Nitroaniline	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
2-Nitroaniline	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
2-Nitroaniline	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
2-Nitrophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
2-Nitrophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
2-Nitrophenol	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
2-Nitrophenol	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
2-Nitrophenol	7440-66-6	ug/L	6/2/2014																					<10.1	
2-Nitrophenol	7440-66-6	ug/L	10/15/2014																					<10	
2-Nitrophenol	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10												

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
3,3-Dimethylbenzidine	7440-66-6	ug/L	10/20/2021									<8					<8	<8				<10.6	<10	<9.8	<10.6	<10
3,3-Dimethylbenzidine	7440-66-6	ug/L	5/1/2023																							
3-Methylcholanthrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
3-Methylcholanthrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10		<10	<10							
3-Methylcholanthrene	7440-66-6	ug/L	4/4/2011									<10					<10	<10								
3-Methylcholanthrene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3	
3-Methylcholanthrene	7440-66-6	ug/L	6/2/2014																					<10.1	<10.3	
3-Methylcholanthrene	7440-66-6	ug/L	10/15/2014																					<10		
3-Methylcholanthrene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1						
3-Methylcholanthrene	7440-66-6	ug/L	4/4/2016									<10					<10	<10								
3-Methylcholanthrene	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3				
3-Methylcholanthrene	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4	
3-Methylcholanthrene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4						
3-Methylcholanthrene	7440-66-6	ug/L	10/20/2021									<8					<8	<8								
3-Methylcholanthrene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
3-Nitroaniline	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
3-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
3-Nitroaniline	7440-66-6	ug/L	4/4/2011									<10					<10	<10								
3-Nitroaniline	7440-66-6	ug/L	7/10/2013																			<10.2	<10.1	<10.1	<106	<10.3
3-Nitroaniline	7440-66-6	ug/L	6/2/2014																					<10.1	<10.3	
3-Nitroaniline	7440-66-6	ug/L	10/15/2014																					<10		
3-Nitroaniline	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1						
3-Nitroaniline	7440-66-6	ug/L	4/4/2016									<10					0.417J	<10								
3-Nitroaniline	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3				
3-Nitroaniline	7440-66-6	ug/L	5/2/2018																			<10.4	<10.5	<10.4	<10.4	
3-Nitroaniline	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4						
3-Nitroaniline	7440-66-6	ug/L	10/20/2021									<8					<8	<8								
3-Nitroaniline	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
4,4'-DDD	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032																
4,4'-DDD	7440-66-6	ug/L	10/25/2009																							
4,4'-DDD	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032						
4,4'-DDD	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032								
4,4'-DDD	7440-66-6	ug/L	10/11/2012								<0.032															
4,4'-DDD	7440-66-6	ug/L	7/10/2013																							
4,4'-DDD	7440-66-6	ug/L	10/5/2015	<0.0327	<0.0333	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	<0.033			<0.0348	<0.0323	<0.0327	<0.0323	<0.0323	<0.0348	<0.0348	
4,4'-DDD	7440-66-6	ug/L	4/4/2016									<0.032					0.00815J	<0.032								
4,4'-DDD	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323				
4,4'-DDD	7440-66-6	ug/L	5/2/2018																				<0.0337	<0.0337	<0.0333	
4,4'-DDD	7440-66-6	ug/L	3/30/2020	<0.0333	<0.033	<0.0337	<0.0333	<0.0344	<0.0337				<0.0337	<0.0333	<0.0333	<0.0333			<0.033	<0.033						
4,4'-DDD	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05								
4,4'-DDD	7440-66-6	ug/L	5/1/2023																		<0.064	<0.0744	<0.0711	<0.064	<0.064	
4,4'-DDE	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032																
4,4'-DDE	7440-66-6	ug/L	10/25/2009																							
4,4'-DDE	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032						
4,4'-DDE	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032								
4,4'-DDE	7440-66-6	ug/L	10/11/2012								<0.032															
4,4'-DDE	7440-66-6	ug/L	7/10/2013																		<0.0327	<0.0323	<0.0323	<0.0348	<0.0348	
4,4'-DDE	7440-66-6	ug/L	10/5/2015	<0.0327	<0.0333	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	<0.033			<0.0348	<0.0323						
4,4'-DDE	7440-66-6	ug/L	4/4/2016									<0.032					0.00499J	<0.032								
4,4'-DDE	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323				
4,4'-DDE	7440-66-6	ug/L	5/2/2018																			<0.0337	<0.0337	<0.0333		
4,4'-DDE	7440-66-6	ug/L	3/30/2020	<0.0333	<0.033	<0.0337	<0.0333	<0.0344	<0.0337				<0.0337	<0.0333	<0.0333	<0.0333			<0.033	<0.033						
4,4'-DDE	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05								
4,4'-DDE	7440-66-6	ug/L	5/1/2023																		<0.064	<0.0744	<0.0711	<0.064	<0.064	
4,4'-DDT	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032																
4,4'-DDT	7440-66-6	ug/L	10/25/2009																							
4,4'-DDT	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032						
4,4'-DDT	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032								
4,4'-DDT	7440-66-6	ug/L	10/11/2012								<0.032															
4,4'-DDT	7440-66-6	ug/L	7/10/2013																							
4,4'-DDT	7440-66-6	ug/L	10/5/2015	<0.0327	<0.0333	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	<0.033			<0.0348	<0.0323	<0.0327	<0.0323	<0.0323	<0.0348	<0.0348	
4,4'-DDT	7440-66-6	ug/L	4/4/2016									<0.032					0.0111J	<0.032								
4,4'-DDT	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323				
4,4'-DDT	7440-66-6	ug/L	5/2/2018																				<0.0337	<0.0337	<0.0333	
4,4'-DDT	7440-66-6	ug/L	3/30/2020	<0.0333	<0.033	<0.0337	<0.0333	<0.0344	<0.0337				<0.0337	<0.0333	<0.0333	<0.0333			<0.033	<0.033						
4,4'-DDT	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05								
4,4'-DDT	7440-66-6	ug/L	5/1/2023														<0.05	<0.05				<0.064	<0.0744	<0.0711	<0.0	

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
4-Bromophenyl phenyl ether	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
4-Bromophenyl phenyl ether	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3	<10.4	<10.5	<10.4
4-Bromophenyl phenyl ether	7440-66-6	ug/L	5/2/2018																						
4-Bromophenyl phenyl ether	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1		<8	<8	<10.4	<10.4				
4-Bromophenyl phenyl ether	7440-66-6	ug/L	10/20/2021									<8													
4-Bromophenyl phenyl ether	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
4-Chloro-3-methylphenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
4-Chloro-3-methylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10															
4-Chloro-3-methylphenol	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10	<10					
4-Chloro-3-methylphenol	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
4-Chloro-3-methylphenol	7440-66-6	ug/L	6/2/2014																				<10.1	<10	
4-Chloro-3-methylphenol	7440-66-6	ug/L	10/15/2014																						
4-Chloro-3-methylphenol	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
4-Chloro-3-methylphenol	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
4-Chloro-3-methylphenol	7440-66-6	ug/L	5/1/2018																		0.644J	<10.3			
4-Chloro-3-methylphenol	7440-66-6	ug/L	5/2/2018																						
4-Chloro-3-methylphenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4
4-Chloro-3-methylphenol	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
4-Chloro-3-methylphenol	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10											
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	6/2/2014																				<10.1	<10	
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	10/15/2014																						
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	4/4/2016									<10					<10	<10	<11.1	<10.1					
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	5/1/2018																			<10.3			
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	5/1/2018																						
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	5/2/2018																						
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10	<10															
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10	<10															
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10	<10															
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10	<10															
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10	<10															
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	7/7/2009																						
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	9/2/2009										<10	<10	<10	<10			<10	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	1/2/2010										<10	<10	<10	<10			<10	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/3/2010									<10	<10	<10	<10	<10	<10	<10	<10	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	7/8/2010									<10	<10	<10	<10	<10	<10	<10	<10	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	9/13/2010									<10	<10	<10	<10	<10	<10	<10	<10	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	11/1/2010	<10	<10	<10		<10	<10	<10			<10	<10	<10	<10									
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	1/10/2011									<10	<10	<10	<10	<10	<10	<10	<10	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/13/2011	<10	<10	<10		<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10						
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	12/5/2011				<10					<10	<10	<10	<10	<10				<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	6/25/2012				<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	8/1/2012							<10	<10										<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	12/13/2012									<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	2/4/2013																		<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	7/10/2013																		<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/7/2013	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
4-Nitroaniline	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1		<8	<8	<10.4	<10.4				
4-Nitroaniline	7440-66-6	ug/L	10/20/2021									<8					<8								
4-Nitroaniline	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
4-Nitrophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
4-Nitrophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
4-Nitrophenol	7440-66-6	ug/L	4/4/2011									<10			<10	<10	<10	<10							
4-Nitrophenol	7440-66-6	ug/L	7/10/2013														<10	<10			<10.2	<10.1	<10.1	<106	<10.3
4-Nitrophenol	7440-66-6	ug/L	6/2/2014																					<10.1	<10
4-Nitrophenol	7440-66-6	ug/L	10/15/2014																						
4-Nitrophenol	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3		<10	<10	<11.1	<10.1				
4-Nitrophenol	7440-66-6	ug/L	4/4/2016									<10													
4-Nitrophenol	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
4-Nitrophenol	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
4-Nitrophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
4-Nitrophenol	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
4-Nitrophenol	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
5-Nitro-o-toluidine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
5-Nitro-o-toluidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10									
5-Nitro-o-toluidine	7440-66-6	ug/L	4/4/2011									<10			<10	<10	<10	<10							
5-Nitro-o-toluidine	7440-66-6	ug/L	7/10/2013																						
5-Nitro-o-toluidine	7440-66-6	ug/L	6/2/2014																		<10.2	<10.1	<10.1	<106	<10.3
5-Nitro-o-toluidine	7440-66-6	ug/L	10/15/2014																					<10.1	<10
5-Nitro-o-toluidine	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
5-Nitro-o-toluidine	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
5-Nitro-o-toluidine	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
5-Nitro-o-toluidine	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
5-Nitro-o-toluidine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
5-Nitro-o-toluidine	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
5-Nitro-o-toluidine	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	6/2/2014																					<10.1	<10
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	10/15/2014																						
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	4/4/2016									<10													
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	5/1/2018																						
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
7,12-Dimethylbenz[ajanthracene	7440-66-6	ug/L	5/1/2023																						
Acenaphthene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Acenaphthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Acenaphthene	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Acenaphthene	7440-66-6	ug/L	7/10/2013																					<106	<10.3
Acenaphthene	7440-66-6	ug/L	6/2/2014																					<10.1	<10
Acenaphthene	7440-66-6	ug/L	10/15/2014																						
Acenaphthene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Acenaphthene	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Acenaphthene	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
Acenaphthene	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
Acenaphthene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
Acenaphthene	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
Acenaphthene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Acenaphthylene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Acenaphthylene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Acenaphthylene	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Acenaphthylene	7440-66-6	ug/L	7/10/2013														<10	<10						<106	<10.3
Acenaphthylene	7440-66-6	ug/L	6/2/2014																					<10.1	<10
Acenaphthylene	7440-66-6	ug/L	10/15/2014																						
Acenaphthylene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Acenaphthylene	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Acenaphthylene	7440-66-6	ug/L	5/1/2018																				<10.4	<10.5	<10.4
Acenaphthylene	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
Acenaphthylene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
Acenaphthylene	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
Acenaphthylene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Acetone	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10	<10															
Acetone	7440-66-6	ug/L	5/12/2008	<10	<																				

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Acetone	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	1.84J	<10	<10	<10	<10	2.44J	6.58J	<10	2.32J	1.93J	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/11/2017	2.34J	4.84J	3.25J	3.45J	2.73J	3.38J	<10	2.72J	6.08J	3.34J	<10	4.28J	7.29J	5.99J	2.89J	<10	3.93J	<10	3.9J	2.24J	4.27J	<10
Acetone	7440-66-6	ug/L	4/20/2018		<10							<10	<10	<10	<10	<10	<10	<10	<10						
Acetone	7440-66-6	ug/L	4/23/2018	<10											<10	<10	<10								
Acetone	7440-66-6	ug/L	4/25/2018						1.87J																
Acetone	7440-66-6	ug/L	4/30/2018			<10	<10	1.93J										5.92J							
Acetone	7440-66-6	ug/L	5/1/2018								1.82J										<10	<10			
Acetone	7440-66-6	ug/L	5/2/2018																						<10
Acetone	7440-66-6	ug/L	10/16/2018	<10	3.14J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	3.7J	<10	3.25J	3.16J	<10	<10	<10
Acetone	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/1/2019	3.93J	<10	<10	<10	<10	<10	<10	<10	3.12J	<10	<10	<10	<10	3.78J	3.24J	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	3/30/2020	<10	<100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	4/13/2021	<10	18.2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/20/2021					<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	5/2/2022					<10	<10	<10	<10	<10	<10								<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/14/2022					<10	<10	<10	<10	<10	<10								<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	5/1/2023	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/16/2023					<10	<10	<10	<10	<10	<10		<10			<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	4/29/2024					<10	<10	<10	<10	<10	<10								<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/10/2024					<10.0				<10.0													
Acetone	7440-66-6	ug/L	10/9/2024									<10.0													
Acetone	7440-66-6	ug/L	10/15/2024																				<10.0		<10.0
Acetone	7440-66-6	ug/L	10/14/2024																		<10.0	<10.0		<10.0	
Acetonitrile	7440-66-6	mg/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Acetonitrile	7440-66-6	mg/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10		<10	<10						
Acetonitrile	7440-66-6	mg/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10						
Acetonitrile	7440-66-6	mg/L	7/10/2013																		<10	<10	<10	<10	<10
Acetonitrile	7440-66-6	mg/L	10/5/2015	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10		<10	<10				<10	<10	<10
Acetonitrile	7440-66-6	mg/L	4/4/2016									<10					<10	<10							
Acetonitrile	7440-66-6	mg/L	5/1/2018																		<10	<10			
Acetonitrile	7440-66-6	mg/L	5/2/2018																				<10	<10	<10
Acetonitrile	7440-66-6	mg/L	3/30/2020	0.571J	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10		<10	0.623J				<10	<10	<10
Acetonitrile	7440-66-6	mg/L	10/20/2021									<0.01					<0.01	<0.01							
Acetonitrile	7440-66-6	mg/L	5/1/2023																		<10	<10	<10	<10	<10
Acetophenone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Acetophenone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10		<10	<10						
Acetophenone	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Acetophenone	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
Acetophenone	7440-66-6	ug/L	6/2/2014																					<10.1	
Acetophenone	7440-66-6	ug/L	10/15/2014																					<10	
Acetophenone	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1			<10.8	<10.6	<10.5	<10.3	<10.3	<10	<10	<11.1	<10.1					
Acetophenone	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Acetophenone	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3	<10.4	<10.5	<10.4
Acetophenone	7440-66-6	ug/L	5/2/2018																						
Acetophenone	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3			<8	<10.4	<10.4	<10.5	<10.1	<8	<8	<10.4	<10.4					
Acetophenone	7440-66-6	ug/L	10/20/2021																						
Acetophenone	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Acrolein	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Acrolein	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10					
Acrolein	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10						
Acrolein	7440-66-6	ug/L	10/11/2012								<10														
Acrolein	7440-66-6	ug/L	7/10/2013																		<10	<10	<10	<10	<10
Acrolein	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10	<10					
Acrolein	7440-66-6	ug/L	4/4/2016									<10					<10	<10	<10	<10					
Acrolein	7440-66-6	ug/L	5/1/2018																		<10	<10	<10	<10	<10
Acrolein	7440-66-6	ug/L	5/2/2018																			<10	<10	<10	<10
Acrolein	7440-66-6	ug/L	3/30/2020	<10	<100	<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10	<10					
Acrolein	7440-66-6	ug/L	10/20/2021									<10					<10	<10	<10	<10					
Acrolein	7440-66-6	ug/L	5/1/2023																		<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10	<10															
Acrylonitrile	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10	<10															
Acrylonitrile	7440-66-6	ug/L	7/13/2008	<10																					

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Acrylonitrile	7440-66-6	ug/L	4/25/2018			<5	<5	<5	<5									<5			<5					
Acrylonitrile	7440-66-6	ug/L	4/30/2018								<5															
Acrylonitrile	7440-66-6	ug/L	5/1/2018																		<5	<5				
Acrylonitrile	7440-66-6	ug/L	5/2/2018																							
Acrylonitrile	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	3/30/2020	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	10/20/2021					<5	<5			<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	5/2/2022					<5	<5	<5	<5	<5	<5	<5			<5				<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	10/14/2022					<5	<5			<5	<5	<5							<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	5/1/2023	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5			<5	<5	<5	<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	10/16/2023					<5	<5			<5	<5	<5						<5	<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	4/29/2024					<5	<5	<5	<5	<5	<5	<5	<5				<5	<5	<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	10/10/2024						<5.00		<5	<5.00	<5.00								<5	<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	10/9/2024										<5.00										<5.00		<5.00	
Acrylonitrile	7440-66-6	ug/L	10/15/2024																				<5.00		<5.00	
Acrylonitrile	7440-66-6	ug/L	10/14/2024																		<5.00	<5.00		<5.00	<5.00	
Aldrin	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032																
Aldrin	7440-66-6	ug/L	10/25/2009							<0.032																
Aldrin	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032						
Aldrin	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032								
Aldrin	7440-66-6	ug/L	10/11/2012								<0.032															
Aldrin	7440-66-6	ug/L	7/10/2013																							
Aldrin	7440-66-6	ug/L	10/5/2015	<0.0327	<0.0333	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	<0.033			<0.0348	<0.0323	<0.0327	<0.0323	<0.0323	<0.0348	<0.0348	
Aldrin	7440-66-6	ug/L	4/4/2016									<0.032					<0.032	<0.032								
Aldrin	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323				
Aldrin	7440-66-6	ug/L	5/2/2018																							
Aldrin	7440-66-6	ug/L	3/30/2020	<0.0333	<0.033	<0.00474	<0.0333	<0.0344	<0.0337				<0.00474	<0.0333	<0.0333	<0.0333			<0.033	<0.033			<0.0337	0.00705J	<0.0333	
Aldrin	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05								
Aldrin	7440-66-6	ug/L	5/1/2023																		<0.064	<0.0744	<0.0711	<0.064	<0.064	
Alkalinity, Phenol [CaCO3]	7440-66-6	mg/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Alkalinity, Phenol [CaCO3]	7440-66-6	mg/L	10/15/2014	<5	<5		<5	<5	<5			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	6/2/2014	537	784	351	557	346	206	330	341	449	480	263	464	392	604	454	433	439	464	129	377	439	402	
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	10/15/2014	508	790	356	707	356	186	320	341	459	429	258	490	356	697	485	423	439	475	119	382	449	402	
Ailyl Chloride	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2	<2	<2									<2	<2						
Ailyl Chloride	7440-66-6	ug/L	5/10/2010	<2	<2	<2	<2	<2	<2	<2			<2	<2	<2	<2										
Ailyl Chloride	7440-66-6	ug/L	4/4/2011									<5					<5	<10								
Ailyl Chloride	7440-66-6	ug/L	10/11/2012								<2															
Ailyl Chloride	7440-66-6	ug/L	7/10/2013																							
Ailyl Chloride	7440-66-6	ug/L	10/5/2015	<2	<2	<2	<2	<2	<2				<2	<2	<2	<2			<2	<2	<2	<2	<2	<2	<2	
Ailyl Chloride	7440-66-6	ug/L	4/4/2016									<2					<2	<2								
Ailyl Chloride	7440-66-6	ug/L	5/1/2018																		<2	<2				
Ailyl Chloride	7440-66-6	ug/L	5/2/2018																							
Ailyl Chloride	7440-66-6	ug/L	3/30/2020	<2	<20	<2	<2	<2	<2				<2	<2	<2	<2			<2	<2			<2	<2	<2	
Ailyl Chloride	7440-66-6	ug/L	10/20/2021									<1					<1	<1								
Ailyl Chloride	7440-66-6	ug/L	5/1/2023																		<2	<2	<2	<2	<2	
Alpha-BHC	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032																
Alpha-BHC	7440-66-6	ug/L	10/25/2009							<0.032																
Alpha-BHC	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				<0.032	<0.032	<0.032	<0.032			<0.032	<0.032						
Alpha-BHC	7440-66-6	ug/L	7/8/2010																							
Alpha-BHC	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032								
Alpha-BHC	7440-66-6	ug/L	10/11/2012								<0.032															
Alpha-BHC	7440-66-6	ug/L	7/10/2013																							
Alpha-BHC	7440-66-6	ug/L	10/5/2015	<0.0327	<0.0333	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	0.002J			<0.0348	<0.0323	<0.0327	<0.0323	<0.0323	<0.0348	<0.0348	
Alpha-BHC	7440-66-6	ug/L	4/4/2016									<0.032					0.00742J	<0.032								
Alpha-BHC	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323				
Alpha-BHC	7440-66-6	ug/L	5/2/2018																							
Alpha-BHC	7440-66-6	ug/L	3/30/2020	<0.0333	<0.033	0.00448J	0.0021J	0.00194J	<0.0337				<0.0337	<0.0333	<0.0333	<0.0333			<0.033	<0.033			<0.0337	<0.0337	<0.0333	
Alpha-BHC	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05								
Alpha-BHC	7440-66-6	ug/L	5/1/2023																		<0.064	<0.0744	<0.0711	<0.064	<0.064	
Alpha-Chlordane	7440-66-6	ug/L	5/10/2010			<0.032		<0.032		<0.032									<0.032							
Ammonia as N	7440-66-6	mg/L	4/6/2015	<0.2	<0.2		0.131J	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	3.13	<0.2	<0.2	0.087J	<0.2	<0.2	<0.2	<0.2	<0.2	
Ammonia as N	7440-66-6	mg/L	10/5/2015	<0.2	<0.2	<0.2																				

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Antimony	7440-66-6	mg/L	10/13/2011	<0.006	<0.006	<0.006		<0.006	<0.006	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006						
Antimony	7440-66-6	mg/L	12/5/2011				<0.006			<0.006							<0.006	<0.006	<0.006	<0.006						
Antimony	7440-66-6	mg/L	4/11/2012	<0.006	<0.006	<0.006		<0.006	<0.006			<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006						
Antimony	7440-66-6	mg/L	6/25/2012					<0.012		<0.006						<0.006	<0.006	<0.006	<0.006	<0.006						
Antimony	7440-66-6	mg/L	8/1/2012							<0.006	<0.006										<0.006	<0.006	<0.006	<0.006	<0.006	
Antimony	7440-66-6	mg/L	10/11/2012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012		<0.012	<0.012		<0.012	<0.012	<0.006	<0.018	<0.012	<0.012	<0.012	<0.024	<0.006	<0.012	<0.012	<0.012	
Antimony	7440-66-6	mg/L	12/13/2012								<0.006									<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
Antimony	7440-66-6	mg/L	2/4/2013							<0.006										<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
Antimony	7440-66-6	mg/L	3/30/2013	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
Antimony	7440-66-6	mg/L	7/10/2013																	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	
Antimony	7440-66-6	mg/L	10/7/2013	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		
Antimony	7440-66-6	mg/L	6/2/2014	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		
Antimony	7440-66-6	mg/L	10/15/2014	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		
Antimony	7440-66-6	mg/L	4/6/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000163J	<0.001	<0.001	<0.001	<0.001	<0.001	0.000257J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	10/5/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000554J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	4/4/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000324J	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	4/17/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000384J	0.000249J	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	10/11/2017	<0.001	0.000307J	<0.001	0.00027J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	4/20/2018		<0.001									<0.001					<0.001	<0.001						
Antimony	7440-66-6	mg/L	4/23/2018	<0.001								<0.001	<0.001			0.000676J	<0.001	<0.001								
Antimony	7440-66-6	mg/L	4/25/2018						<0.001		<0.001															
Antimony	7440-66-6	mg/L	4/30/2018			<0.001	<0.001	<0.001										<0.001								
Antimony	7440-66-6	mg/L	5/1/2018																		<0.001	<0.001				
Antimony	7440-66-6	mg/L	5/2/2018																			<0.001	<0.001	<0.001	<0.001	<0.001
Antimony	7440-66-6	mg/L	10/16/2018	<0.003	<0.003	<0.001	<0.001	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.001	<0.003	<0.003	0.000882J	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	4/16/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00101	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	10/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000555J	<0.001	0.000743J	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	3/30/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	10/7/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	4/13/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Antimony	7440-66-6	mg/L	10/20/2021					<0.002				<0.002					<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Antimony	7440-66-6	mg/L	5/2/2022					<0.002		<0.002	<0.002									<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Antimony	7440-66-6	mg/L	10/14/2022					<0.002												<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Antimony	7440-66-6	mg/L	5/1/2023					<0.002		<0.002	<0.002									<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Antimony	7440-66-6	mg/L	10/16/2023					<0.002												<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Antimony	7440-66-6	mg/L	4/29/2024					<0.002		<0.002	<0.002									<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Antimony	7440-66-6	mg/L	10/15/2024																							
Antimony	7440-66-6	mg/L	10/14/2024																		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	
Arsenic	7440-66-6	mg/L	2/27/2008	0.004	0.002	0.002	0.005	0.008	0.003	0.001																
Arsenic	7440-66-6	mg/L	5/12/2008	<0.001	<0.001	0.003	0.001	<0.001	0.001	0.002																
Arsenic	7440-66-6	mg/L	7/13/2008	0.004	0.002	0.005	0.003	<0.001	<0.001	0.001																
Arsenic	7440-66-6	mg/L	9/14/2008	0.001	<0.001	0.002	<0.001	<0.001	0.001	<0.001																
Arsenic	7440-66-6	mg/L	11/17/2008	<0.001	<0.001	<0.001	0.00126	<0.001	<0.001	<0.001																
Arsenic	7440-66-6	mg/L	4/14/2009	<0.001	<0.001	<0.001	0.0013	<0.01	<0.001	<0.001																
Arsenic	7440-66-6	mg/L	7/7/2009				0.0012		<0.001			0.012	0.0028	0.0011	0.026				0.0032; 0.0044	0.0024						
Arsenic	7440-66-6	mg/L	9/2/2009				0.0021		0.0011	0.0012		0.011	0.011	0.0012	0.076					0.0048	0.0026					
Arsenic	7440-66-6	mg/L	10/25/2009	0.0014	<0.001	0.005	0.0024	<0.001	<0.001	<0.001		0.022	<0.001	0.0089	0.099; 0.095				0.0011	0.0014						
Arsenic	7440-66-6	mg/L	1/2/2010				0.0012			0.003		0.054	<0.001	<0.001		0.1; 0.11			0.0044	0.0052						
Arsenic	7440-66-6	mg/L	3/3/2010									0.026	0.025	0.0026	0.0057	0.084	0.029; 0.028	0.0063	0.004	0.0025						
Arsenic	7440-66-6	mg/L	5/10/2010	0.001	<0.001	0.0082	0.0018	0.0011	<0.001	0.0023		0.0052	0.002	0.0011	0.0015	0.077	0.016	0.0046	0.0062	0.0032						
Arsenic																										

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Barium	7440-66-6	mg/L	2/27/2008	0.408	0.932	0.286	0.405	0.131	0.22	0.151															
Barium	7440-66-6	mg/L	5/12/2008	0.38	1.06	0.337	0.333	0.0792	0.131	0.125															
Barium	7440-66-6	mg/L	7/13/2008	0.462	0.807	0.362	0.323	0.0761	0.129	0.161															
Barium	7440-66-6	mg/L	9/14/2008	0.375	0.835	0.36	0.313	0.0832	0.205	0.184															
Barium	7440-66-6	mg/L	11/17/2008	0.456	0.836	0.373	0.356	0.0879	0.155	0.31															
Barium	7440-66-6	mg/L	4/14/2009	0.382	1.06	0.273	0.35	0.0783	0.121	0.151															
Barium	7440-66-6	mg/L	7/7/2009	0.16	0.892	0.276	0.345	0.0348	0.118	0.159		0.513	0.37	0.253	0.204			0.335; 0.279	0.289						
Barium	7440-66-6	mg/L	9/2/2009	0.366	1.07	0.467	0.369	0.0883	0.125	0.174		0.592	0.451	0.268	0.171			0.317	0.327						
Barium	7440-66-6	mg/L	10/25/2009	0.417	0.997	0.347	0.337	0.0919	0.123	0.173		1.01	0.362	0.349	0.171			0.219	0.366						
Barium	7440-66-6	mg/L	1/2/2010	0.4	0.951	0.292	0.329	0.0915	0.128	0.173			0.879	0.385	0.267	0.166		0.268	0.341						
Barium	7440-66-6	mg/L	3/3/2010									1.46	0.864	0.409	0.384	0.17	0.456	0.33	0.278	0.34					
Barium	7440-66-6	mg/L	5/10/2010	0.378	0.96	0.625	0.283	0.0817	0.11	0.156		0.502	0.391	0.311	0.235	0.153	0.275	0.341	0.406	0.338					
Barium	7440-66-6	mg/L	7/8/2010							0.154		0.485	0.569	0.347	0.239	0.157	0.336	0.363	0.311	0.298					
Barium	7440-66-6	mg/L	9/13/2010							0.161		0.49	0.603	0.4	0.235	0.167	0.566	0.492	0.169	0.354					
Barium	7440-66-6	mg/L	11/1/2010	0.446	1.14	0.296		0.0984	0.133	0.2		0.699	0.381	0.269	0.18										
Barium	7440-66-6	mg/L	1/10/2011							0.209		0.524	1.15	0.433	0.286	0.167	0.616	0.482							
Barium	7440-66-6	mg/L	4/4/2011							0.161		0.41	0.787	0.383	0.304	0.148		0.396							
Barium	7440-66-6	mg/L	7/8/2011							0.149		0.429					0.417	0.373							
Barium	7440-66-6	mg/L	8/11/2011							0.196		0.491					0.614	0.379							
Barium	7440-66-6	mg/L	10/13/2011	0.462	0.889	0.302		0.0988	0.147	0.232		0.457	0.464	0.377	0.344	0.206	0.44	0.549	0.264						
Barium	7440-66-6	mg/L	12/5/2011				0.349			0.268		0.592					0.448	0.531	0.314						
Barium	7440-66-6	mg/L	2/6/2012							0.214															
Barium	7440-66-6	mg/L	4/11/2012	0.422	1.07	0.326	0.346	0.111	0.104	0.234		0.581	0.715	0.42	0.33	0.185	0.352	0.313	0.222	0.323					
Barium	7440-66-6	mg/L	6/25/2012					<0.01		0.251															
Barium	7440-66-6	mg/L	8/1/2012							0.251		0.255									0.635	0.268	0.255	0.35	0.364
Barium	7440-66-6	mg/L	10/11/2012	0.404	1.15	0.283	0.443	0.11	0.143		0.21	0.486		0.441	0.329	0.204	0.809	0.345	0.257	0.316	0.893	0.11	0.298	0.3	0.471
Barium	7440-66-6	mg/L	12/13/2012								0.183										0.654	0.616	0.302	0.35	1.85
Barium	7440-66-6	mg/L	2/4/2013							0.406											0.67	0.274	0.277	0.296	1.35
Barium	7440-66-6	mg/L	3/30/2013	0.456	1.25	0.295	0.345	0.149	0.12	0.186	0.561			0.45	0.395	0.155	0.378	0.304	0.239	0.229	0.906	0.118	0.276	0.311	0.559
Barium	7440-66-6	mg/L	7/10/2013																		1.42	0.106	0.208	0.199	0.335
Barium	7440-66-6	mg/L	10/7/2013	0.465	1.05	0.315	0.333	0.144	0.132	0.249; 0.38	0.806	0.68	0.554	0.361	0.349	0.191	1.02	0.336	0.254; 0.253	0.193	0.536	1.82	0.271; 0.275	0.396	0.349
Barium	7440-66-6	mg/L	6/2/2014	0.409	0.964	0.309	0.298	0.132	0.0926	0.173	0.194	0.585	0.407	0.415	0.282	0.148	0.456	0.214	0.303	0.103	0.26	0.0614	0.204	0.475	0.28
Barium	7440-66-6	mg/L	10/15/2014	0.477; 0.487	0.925	0.287	0.411	0.149	0.12	0.154	0.229	0.656	0.31	0.337	0.33	0.191	0.373	0.27	0.294	0.117	0.268	0.0663	0.213	0.471	0.262
Barium	7440-66-6	mg/L	4/6/2015	0.464	1.08	0.296; 0.304	0.389	0.146	0.12	0.196	0.224	0.742	0.23	0.383	0.312	0.181	0.536	0.293	0.392	0.132	0.281	0.0744	0.206	0.489	0.279
Barium	7440-66-6	mg/L	10/5/2015	0.532	1.13	0.392	0.392	0.161	0.159	0.328	0.238	0.83	0.413	0.448	0.415	0.215	0.632	0.329	0.322	0.158	0.286	0.0862; 0.0852	0.22	0.523	0.277
Barium	7440-66-6	mg/L	4/4/2016	0.541	0.998	0.33	0.615; 0.567	0.181	0.114	0.174	0.303	0.911	0.298	0.312	0.364	0.163	0.647	0.278	0.301	0.0787	0.333	0.0885	0.259	0.644	0.316
Barium	7440-66-6	mg/L	10/17/2016	0.462	1.13	0.287	0.362	0.135	0.124	0.17	0.218	0.644	0.312	0.334	0.311	0.156	0.447	0.101	0.0572	0.0961	0.282	0.0732	0.193	0.471	0.238
Barium	7440-66-6	mg/L	4/17/2017	0.525	1.13	0.35	0.424	0.155	0.101	0.215	0.284	0.735	0.262	0.331	0.324	0.189	0.302	0.0995	0.514	0.103	0.297	0.078	0.237	0.608	0.282
Barium	7440-66-6	mg/L	10/11/2017	0.51	0.887	0.294	0.341	0.141	0.138	0.237	0.263	0.827	0.342	0.376	0.325	0.174	0.5	0.254	0.269	0.0959	0.291	0.0775	0.226	0.502	0.257
Barium	7440-66-6	mg/L	4/20/2018		1.24									0.427				0.288	0.111						
Barium	7440-66-6	mg/L	4/23/2018	0.562								0.876	0.278		0.302	0.165	0.322								
Barium	7440-66-6	mg/L	4/25/2018						0.104		0.3														
Barium	7440-66-6	mg/L	4/30/2018			0.308; 0.316	0.31	0.194										0.162							
Barium	7440-66-6	mg/L	5/1/2018																		0.283	0.0838	0.235	0.607	0.294
Barium	7440-66-6	mg/L	5/2/2018																						
Barium	7440-66-6	mg/L	10/16/2018	0.491	1.31	0.355	0.429	0.194	0.113	0.269	0.294	0.881	0.336	0.236	0.295	0.147	0.321	0.251	0.297	0.125	0.302	0.0777	0.228	0.58	0.265; 0.295
Barium	7440-66-6	mg/L	4/16/2019	0.537	1.16	0.339	0.513	0.188	0.111	0.154	0.319	0.858	0.375	0.299	0.296; 0.312	0.185	0.364	0.0731	0.275	0.0838	0.279	0.0826	0.22	0.574	0.296
Barium	7440-66-6	mg/L	10/1/2019	0.457	1.03	0.303	0.312	0.176	0.134	0.28	0.286	0.794	0.251	0.31	0.282	0.183	0.287	0.0688	0.295	0.113	0.257	0.0725	0.215	0.537	0.242
Barium	7440-66-6	mg/L	3/30/2020	0.476	1.26	0.318	0.605	0.213	0.115	0.179	0.315	0.717	0.293	0.259	0.337	0.142	0.262	0.0715	0.257	0.0801	0.291	0.0895; 0.0759	0.228	0.567	0.295
Barium	7440-66-6	mg/L	10/7/2020	0.548	1.17	0.319	0.278	0.188	0.155	0.203	0.306	0.923	0.302	0.368	0.323	0.193	0.317	0.172	0.28	0.097	0.267	0.0853	0.225	0.561	0.275
Barium	7440-66-6	mg/L	4/13/2021	0.48	1.09	0.27	0.474	0.2	0.116; 0.115	0.176	0.293	0.938	0.189	0.261	0.328	0.11	0.285	0.0512	0.25	0.0836	0.294	0.0939	0.222	0.57	0.282
Barium	7440-66-6	mg/L	10/20/2021					0.183; 0.173	0.148	0.859	0.233					0.328	0.062				0.252	0.0965	0.225	0.54	0.293
Barium	7440-66-6	mg/L	5/2/2022	0.454		0.34	0.333	0.197	0.118	0.221	0.328	0.817	0.223	0.302	0.298	0.145	0.275	0.0453	0.259	0.134	0.226	0.096	0.221	0.558	0.272; 0.271
Barium	7440-66-6	mg/L	10/14/2022				0.263	0.204	0.253	0.916	0.367										0.216	0.103	0.255	0.571	0.279
Barium	7440-66-6	mg/L	5/1/2023	0.498		0.343	0.278	0.211	0.0924; 0.0949	0.255	0.315	1.08	0.263	0.333	0.337	0.17	0.271	0.0788	0.297	0.139	0.0577	0.099	0.254	0.705	0.308
Barium	7440-66-6	mg/L	10/16/2023				0.304	0.237	0.174			1.01	0.217						0.0607	0.114	0.286	0.66	0.321		
Barium	7440-66-6	mg/L	4/29/2024	0.487		0.3																			

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Benzene	7440-66-6	ug/L	4/23/2018	<0.5								<0.5	<0.5		<0.5	<0.5	0.142J								
Benzene	7440-66-6	ug/L	4/25/2018						<0.5																
Benzene	7440-66-6	ug/L	4/30/2018			<0.5	<0.5	<0.5										<0.5							
Benzene	7440-66-6	ug/L	5/1/2018								<0.5										<0.5	<0.5			
Benzene	7440-66-6	ug/L	5/2/2018																						
Benzene	7440-66-6	ug/L	10/16/2018	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	4/16/2019	<0.5	0.843	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	10/1/2019	<0.5	1.74	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	3/30/2020	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	10/7/2020	<0.5	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.378J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	4/13/2021	<1	2.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Benzene	7440-66-6	ug/L	10/20/2021		4.2			<1	<1			<1	<1								<1	<1	<1	<1	
Benzene	7440-66-6	ug/L	5/2/2022		4.6			<1	<1	<1	<1	<1	<1								<1	<1	<1	<1	
Benzene	7440-66-6	ug/L	10/14/2022		4.7			<1	<1			<1	<1								<1	<1	<1	<1	
Benzene	7440-66-6	ug/L	5/1/2023	<0.5	4.93	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	10/16/2023		3.73			<0.5	<0.5			<0.5	<0.5								<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	4/29/2024		1.97			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5								<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	10/10/2024						<0.500			<0.500													
Benzene	7440-66-6	ug/L	10/9/2024		1.74								<0.500												
Benzene	7440-66-6	ug/L	10/15/2024																						
Benzene	7440-66-6	ug/L	10/14/2024																		<0.500	<0.500	<0.500	<0.500	
Benzo [k] fluoranthene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10									
Benzo [k] fluoranthene	7440-66-6	ug/L	5/10/2010	<10	<10					<10									<10	<10					
Benzo [k] fluoranthene	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Benzo [k] fluoranthene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	
Benzo [k] fluoranthene	7440-66-6	ug/L	6/2/2014																					<10.3	
Benzo [k] fluoranthene	7440-66-6	ug/L	10/15/2014																					<10.1	
Benzo [k] fluoranthene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3	<10	<10	<11.1	<10.1				<10	
Benzo [k] fluoranthene	7440-66-6	ug/L	4/4/2016									<10					<10	<10				<10.4	<10.3		
Benzo [k] fluoranthene	7440-66-6	ug/L	5/1/2018																						
Benzo [k] fluoranthene	7440-66-6	ug/L	5/2/2018																						
Benzo [k] fluoranthene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4
Benzo [k] fluoranthene	7440-66-6	ug/L	10/20/2021									<8					<8	<8	<10.4	<10.4					
Benzo [k] fluoranthene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Benzo[a]anthracene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10									
Benzo[a]anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Benzo[a]anthracene	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Benzo[a]anthracene	7440-66-6	ug/L	7/10/2013																						
Benzo[a]anthracene	7440-66-6	ug/L	6/2/2014																		<10.2	<10.1	<10.1	<106	
Benzo[a]anthracene	7440-66-6	ug/L	10/15/2014																					<10.1	
Benzo[a]anthracene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3	<10	<10	<11.1	<10.1				<10	
Benzo[a]anthracene	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Benzo[a]anthracene	7440-66-6	ug/L	5/1/2018																						
Benzo[a]anthracene	7440-66-6	ug/L	5/2/2018																		<10.4	<10.3	<10.4	<10.5	<10.4
Benzo[a]anthracene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
Benzo[a]anthracene	7440-66-6	ug/L	10/20/2021									<8					<8	<8	<10.4	<10.4					
Benzo[a]anthracene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Benzo[a]pyrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10									
Benzo[a]pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Benzo[a]pyrene	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Benzo[a]pyrene	7440-66-6	ug/L	7/10/2013																						
Benzo[a]pyrene	7440-66-6	ug/L	6/2/2014																		<10.2	<10.1	<10.1	<106	
Benzo[a]pyrene	7440-66-6	ug/L	10/15/2014																					<10.1	
Benzo[a]pyrene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1				<10	
Benzo[a]pyrene	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Benzo[a]pyrene	7440-66-6	ug/L	5/1/2018																		2.77J	<10.3	<10.4	<10.5	<10.4
Benzo[a]pyrene	7440-66-6	ug/L	5/2/2018																						
Benzo[a]pyrene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
Benzo[a]pyrene	7440-66-6	ug/L	10/20/2021									<8					<8	<8	<10.4	<10.4					
Benzo[a]pyrene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Benzo[b]fluoranthene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10									
Benzo[b]fluoranthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Benzo[b]fluoranthene	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Benzo[b]fluoranthene	7440-66-6	ug/L	7/10/2013																						
Benzo[b]fluoranthene	7440-66-6	ug/L	6/2/2014																		<10.2	<10.1	<10.1	<106	
Benzo[b]fluoranthene	7440-66-6	ug/L	10/15/2014																					<10.1	
Benzo[b]fluoranthene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1				<10	
Benzo[b]fluoranthene	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Benzo[b]fluoranthene	7440-66-6	ug/L	5/1/2018																						

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Beryllium	7440-66-6	mg/L	2/27/2008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001																
Beryllium	7440-66-6	mg/L	5/12/2008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001																
Beryllium	7440-66-6	mg/L	7/13/2008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001																
Beryllium	7440-66-6	mg/L	9/14/2008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001																
Beryllium	7440-66-6	mg/L	11/17/2008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00107																
Beryllium	7440-66-6	mg/L	4/14/2009	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001																
Beryllium	7440-66-6	mg/L	7/7/2009							<0.001			0.00164	<0.001	<0.001	<0.001			<0.001	<0.001						
Beryllium	7440-66-6	mg/L	9/2/2009							<0.001			0.00126	<0.001	<0.001	<0.001			<0.001	<0.001						
Beryllium	7440-66-6	mg/L	10/25/2009	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			0.00332	<0.001	<0.001	<0.001			<0.001	<0.001						
Beryllium	7440-66-6	mg/L	1/2/2010							<0.001			0.00209	<0.001	<0.001	<0.001			<0.001	<0.001						
Beryllium	7440-66-6	mg/L	3/3/2010									0.0129	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Beryllium	7440-66-6	mg/L	5/10/2010	<0.0004	<0.0004	0.0022	<0.0004	<0.0004	<0.0004	<0.0004		0.0019	0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.00062	<0.0004	<0.0004						
Beryllium	7440-66-6	mg/L	7/8/2010							<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Beryllium	7440-66-6	mg/L	9/13/2010							<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Beryllium	7440-66-6	mg/L	11/1/2010	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		0.00144	<0.001	<0.001	<0.001	<0.001										
Beryllium	7440-66-6	mg/L	1/10/2011							<0.001		0.0032				<0.001	<0.001									
Beryllium	7440-66-6	mg/L	4/4/2011							<0.001		0.0014				<0.001	0.00123	<0.001								
Beryllium	7440-66-6	mg/L	7/8/2011							<0.001																
Beryllium	7440-66-6	mg/L	8/11/2011							<0.001																
Beryllium	7440-66-6	mg/L	10/13/2011	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	0.00115	0.00246								
Beryllium	7440-66-6	mg/L	12/5/2011				<0.001			<0.001		<0.001								<0.001						
Beryllium	7440-66-6	mg/L	2/6/2012							<0.001																
Beryllium	7440-66-6	mg/L	4/11/2012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	0.00107	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001						
Beryllium	7440-66-6	mg/L	6/25/2012					<0.001		<0.001																
Beryllium	7440-66-6	mg/L	8/1/2012					<0.001		<0.001	<0.001										0.00379	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	10/11/2012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00758	<0.001	<0.001	<0.001	0.00132	
Beryllium	7440-66-6	mg/L	12/13/2012								<0.001										0.00184	0.00148	<0.001	<0.001	0.00298	
Beryllium	7440-66-6	mg/L	2/4/2013							<0.001											0.00999	<0.001	<0.001	<0.001	0.00565	
Beryllium	7440-66-6	mg/L	3/30/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0028	<0.001	<0.001	<0.001	0.00113	
Beryllium	7440-66-6	mg/L	7/10/2013																		0.0048	<0.001	<0.001	<0.001	0.00173	
Beryllium	7440-66-6	mg/L	10/7/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00163	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00128	0.00487	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	6/2/2014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	10/15/2014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	4/6/2015	<0.001	<0.001	<0.001	0.000139J	<0.001	<0.001	0.000064J	0.00007J	<0.001	<0.001	<0.001	<0.001	<0.001	0.0001J	<0.001	0.000336J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	10/5/2015	<0.001	<0.001	<0.001	0.000097J	0.000139J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000127J	<0.001	0.000041J	0.000081J	0.000088J	<0.001	0.000131J	<0.001	
Beryllium	7440-66-6	mg/L	4/4/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	4/17/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000278J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	10/11/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000171J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	4/20/2018		<0.001									<0.001					<0.001	<0.001						
Beryllium	7440-66-6	mg/L	4/23/2018	<0.001								<0.001	<0.001	<0.001	<0.001	<0.001	<0.001									
Beryllium	7440-66-6	mg/L	4/25/2018						<0.001		<0.001															
Beryllium	7440-66-6	mg/L	4/30/2018			<0.001	<0.001	<0.001										<0.001								
Beryllium	7440-66-6	mg/L	5/1/2018																		<0.001	<0.001				
Beryllium	7440-66-6	mg/L	5/2/2018																			<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	10/16/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	4/16/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	10/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	3/30/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	10/7/2020	<0.001	0.000288J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	4/13/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Beryllium	7440-66-6	mg/L	10/20/2021					<0.004		<0.004		<0.004					<0.004	<0.004	</							

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Bis[2-chloroethyl]ether	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4	
Bis[2-chloroethyl]ether	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1		<8	<8	<10.4	<10.4					
Bis[2-chloroethyl]ether	7440-66-6	ug/L	10/20/2021									<8														
Bis[2-chloroethyl]ether	7440-66-6	ug/L	5/1/2023																			<10.6	<10	<9.8	<10.6	<10
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10																
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10		<10	<10							
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	7/10/2013																			<10.2	<10.1	<10.1	<106	<10.3
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	6/2/2014																					<10.1	<10	
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/15/2014																							
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3				<11.1	<10.1					
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/4/2016															<10	<10							
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/1/2018																			<10.4	<10.3			
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4	
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4						
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/20/2021																							
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/1/2023									<8					<8	<8				<10.6	<10	<9.8	<10.6	<10
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10																
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/4/2011																							
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	7/10/2013									<10	<10	<10	<10	<10		<10	<10							
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	6/2/2014																			<10.2	<10.1	<10.1	<106	<10.3
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/15/2014																					<10.1	<10.3	
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/5/2015	0.768J	14.6	5.49J	7.73J	2.25J	<10.1				14.2	1.1J	1.03J	8.07J			15.3	10.8						
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/4/2016		0.882J							0.747J	<10				0.88J	0.761J	0.635J	1.34J						
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/11/2016		0.823J								0.817J						1.39J	0.843J						
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/17/2016		0.897J								0.875J						1.1J	0.56J						
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	11/14/2016		0.848J								1.86J						1.41J	0.922J						
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/17/2017		<10.4								<10.9						0.896J	<10						
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/11/2017		<10.2								<10.4						<10.6	<10.2						
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/20/2018		<10.2														<10.6	<10.3						
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/23/2018										<10.3													
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	5/2/2018																							
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/16/2018		<10.3								<10.1						<10.5	<10.3			<10.4	<10.5	<10.4	
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/16/2019		<10.2								<10.2						<10.1	<10.1						
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4						
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/20/2021									<6					<6	<6								
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
Bromochloromethane	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5	<5	<5																
Bromochloromethane	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5	<5	<5																
Bromochloromethane	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5	<5	<5																
Bromochloromethane	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5	<5	<5																
Bromochloromethane	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5	<5	<5																
Bromochloromethane	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5	<5	<5																
Bromochloromethane	7440-66-6	ug/L	7/7/2009																							
Bromochloromethane	7440-66-6	ug/L	9/2/2009										<5	<5	<5	<5			<5	<5						
Bromochloromethane	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<5	<5	<5			<5	<5	<5	<5			<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	1/2/2010										<5	<5	<5	<5			<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	3/3/2010										<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	7/8/2010																							
Bromochloromethane	7440-66-6	ug/L	9/13/2010										<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	11/1/2010	<5	<5	<5		<5	<5	<5			<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	1/10/2011										<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	4/4/2011										<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	12/5/2011																							
Bromochloromethane	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	6/25/2012																							
Bromochloromethane	7440-66-6	ug/L	8/1/2012							<5											<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	12/13/2012																		<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	2/4/2013																		<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	7/10/2013																		<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	10/7/2013	<5	<5	<5		<5	<5	<5		<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	</															

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

[illegible]

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Bromoform	7440-66-6	ug/L	3/30/2020	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromoform	7440-66-6	ug/L	10/20/2021					<1	<1			<1	<1				<1	<1			<1	<1	<1	<1	<1	
Bromoform	7440-66-6	ug/L	5/2/2022					<1	<1	<1	<1	<1	<1								<1	<1	<1	<1	<1	
Bromoform	7440-66-6	ug/L	10/14/2022					<1	<1			<1	<1								<1	<1	<1	<1	<1	
Bromoform	7440-66-6	ug/L	5/1/2023	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5			<5	<5	<5	<5	<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	10/16/2023					<5	<5			<5	<5						<5		<5	<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	4/29/2024					<5	<5	<5	<5	<5	<5								<5	<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	10/10/2024						<5.00			<5.00														
Bromoform	7440-66-6	ug/L	10/9/2024									<5.00														
Bromoform	7440-66-6	ug/L	10/15/2024																							
Bromoform	7440-66-6	ug/L	10/14/2024																		<5.00	<5.00	<5.00	<5.00	<5.00	
Bromomethane	7440-66-6	ug/L	2/27/2008	<4	<4	<4	<4	<4	<4	<4																
Bromomethane	7440-66-6	ug/L	5/12/2008	<4	<4	<4	<4	<4	<4	<4																
Bromomethane	7440-66-6	ug/L	7/13/2008	<4	<4	<4	<4	<4	<4	<4																
Bromomethane	7440-66-6	ug/L	9/14/2008	<4	<4	<4	<4	<4	<4	<4																
Bromomethane	7440-66-6	ug/L	11/17/2008	<4	<4	<4	<4	<4	<4	<4																
Bromomethane	7440-66-6	ug/L	4/14/2009	<4	<4	<4	<4	<4	<4	<4																
Bromomethane	7440-66-6	ug/L	7/7/2009										<4	<4	<4	<4			<4	<4						
Bromomethane	7440-66-6	ug/L	9/2/2009										<4	<4	<4	<4			<4	<4						
Bromomethane	7440-66-6	ug/L	10/25/2009	<4	<4	<4	<4	<4	<4	<4			<4	<4	<4	<4			<4	<4						
Bromomethane	7440-66-6	ug/L	1/2/2010										<4	<4	<4	<4			<4	<4						
Bromomethane	7440-66-6	ug/L	3/3/2010									<4	<4	<4	<4	<4	<4	<4	<4	<4						
Bromomethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4	<4		<4	<4	<4	<4	<4	<4	<4	<4	<4						
Bromomethane	7440-66-6	ug/L	7/8/2010									<4					<4	<4								
Bromomethane	7440-66-6	ug/L	9/13/2010									<4					<4	<4								
Bromomethane	7440-66-6	ug/L	11/1/2010	<4	<4	<4		<4	<4	<4		<4	<4	<4	<4	<4										
Bromomethane	7440-66-6	ug/L	1/10/2011									<4	<4	<4	<4	<4	<4	<4								
Bromomethane	7440-66-6	ug/L	4/4/2011									<4					<4	<4								
Bromomethane	7440-66-6	ug/L	10/13/2011	<4	<4	<4		<4	<4	<4		<4	<4	<4	<4	<4	<4	<4	<4							
Bromomethane	7440-66-6	ug/L	12/5/2011				<20																			
Bromomethane	7440-66-6	ug/L	4/11/2012	<4	<4	<4	<4	<4	<4	<4		<4	<4	<4	<4	<4	<4	<4	<4	<20						
Bromomethane	7440-66-6	ug/L	6/25/2012				<4			<4											<4					
Bromomethane	7440-66-6	ug/L	8/1/2012							<4	<4															
Bromomethane	7440-66-6	ug/L	10/11/2012	<5	<5	<4	<4	<4	<4		<4	<5		<4	<4	<5	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	12/13/2012																		<4					
Bromomethane	7440-66-6	ug/L	2/4/2013																							
Bromomethane	7440-66-6	ug/L	3/30/2013	<4	<4	<4	<4	<4	<4	<4		<4		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	7/10/2013																							
Bromomethane	7440-66-6	ug/L	10/7/2013	<4	<4	<4			<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	6/2/2014	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	10/15/2014	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	4/6/2015	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.261J	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	10/5/2015	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	4/4/2016	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.379J	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	10/17/2016	0.596J	<4	<4	<4	<4	<4	<4	<4	0.559J	<4	<4	<4	<4	<4	0.408J	0.467J	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	4/17/2017	0.437J	0.251J	0.399J	0.482J	0.514J	<4	0.499J	0.496J	0.356J	0.415J	0.326J	0.41J	0.444J	0.414J	0.275J	0.447J	0.279J	0.539J	0.482J	0.403J	0.457J	0.239J	
Bromomethane	7440-66-6	ug/L	10/11/2017	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	4/20/2018		<4									<4					<4	<4						
Bromomethane	7440-66-6	ug/L	4/23/2018	<4								<4	<4		<4	<4	0.333J			<4						
Bromomethane	7440-66-6	ug/L	4/25/2018						<4																	
Bromomethane	7440-66-6	ug/L	4/30/2018			<4	<4	<4										<4								
Bromomethane	7440-66-6	ug/L	5/1/2018								<4										<4	<4				
Bromomethane	7440-66-6	ug/L	5/2/2018																			<4	<4	0.237J	0.411J	0.304J
Bromomethane	7440-66-6	ug/L	10/16/2018	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	4/16/2019	<4	<40	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	10/1/2019	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	3/30/2020	<4	<40	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	10/7/2020	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Bromomethane	7440-66-6	ug/L	10/20/2021					<1	<1			<1	<1				<1	<1			<1	<1	<1	<1	<1	
Bromomethane	7440-66-6	ug/L	5/2/2022					<1	0.6J	<1	<1	<1	<1								<1	<1	<1	0.6J	<1	
Bromomethane	7440-66-6	ug/L	10/14/2022					<1	<1			<1	<1								<1	<1	<1	<1	<1	
Bromomethane	7440-66-6	ug/L	5/1/2023	<4	</																					

Table 9A
Analytical Data Summary - Series A HSMP Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Cadmium	7440-66-6	mg/L	4/4/2011									<0.0005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0005	<0.0005	<0.0025							
Cadmium	7440-66-6	mg/L	7/8/2011							<0.0025		<0.0025					<0.0025	<0.0025								
Cadmium	7440-66-6	mg/L	8/11/2011							<0.0025		<0.0025					<0.0025	<0.0025								
Cadmium	7440-66-6	mg/L	10/13/2011	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000573	0.00229							
Cadmium	7440-66-6	mg/L	12/5/2011				0.00058																			
Cadmium	7440-66-6	mg/L	2/6/2012							<0.0005																
Cadmium	7440-66-6	mg/L	4/11/2012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005						
Cadmium	7440-66-6	mg/L	6/25/2012					<0.0005		<0.0005																
Cadmium	7440-66-6	mg/L	8/1/2012							<0.0005	<0.0005										0.000664	<0.0005	<0.0005	0.000638	0.000537	
Cadmium	7440-66-6	mg/L	10/11/2012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000817	<0.0005	<0.0005	<0.0005	0.000688	
Cadmium	7440-66-6	mg/L	12/13/2012								<0.0005										<0.0005	<0.0005	<0.0005	<0.0005	0.00236	
Cadmium	7440-66-6	mg/L	2/4/2013								<0.0005										0.00157	<0.0005	<0.0005	<0.0005	0.00251	
Cadmium	7440-66-6	mg/L	3/30/2013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000634	<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	7/10/2013																		0.00138	<0.0005	<0.0005	<0.0005	0.000746	
Cadmium	7440-66-6	mg/L	10/7/2013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00173	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00181	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	6/2/2014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	10/15/2014	<0.0005	<0.0005	<0.0005	0.00036J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	4/6/2015	<0.0005	<0.0005	<0.0005	0.000181J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000124J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	10/5/2015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	4/4/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000036J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000039J	0.00008J	<0.0005	<0.0005	<0.0005	0.000045J	0.000056J	<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	10/17/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00005J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000038J	
Cadmium	7440-66-6	mg/L	4/17/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000091J	<0.0005	0.000112J	0.000172J	0.000074J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	10/11/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000075J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	4/20/2018		<0.0005														<0.0005	<0.0005						
Cadmium	7440-66-6	mg/L	4/23/2018	<0.0005								<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005						
Cadmium	7440-66-6	mg/L	4/25/2018						<0.0005		<0.0005															
Cadmium	7440-66-6	mg/L	4/30/2018			<0.0005	<0.0005	<0.0005											0.000211J							
Cadmium	7440-66-6	mg/L	5/1/2018																		<0.0005	<0.0005				
Cadmium	7440-66-6	mg/L	5/2/2018																							
Cadmium	7440-66-6	mg/L	10/16/2018	<0.0005	<0.0005	0.000067J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000095J	<0.0005	<0.0005	0.000066J	<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	4/16/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000239J	0.000118J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	10/1/2019	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.000048J	<0.0001	0.000082J	<0.0001	0.000108	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Cadmium	7440-66-6	mg/L	3/30/2020	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.000045J	<0.0001	0.000097J	<0.0001	0.000073J	0.000055J	<0.0001	<0.0001	<0.0001	<0.0001	
Cadmium	7440-66-6	mg/L	10/7/2020	<0.0001	0.000253	<0.0001	<0.0001	<0.0001	0.000063J	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.000061J	<0.0001	0.000084J	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Cadmium	7440-66-6	mg/L	4/13/2021	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	
Cadmium	7440-66-6	mg/L	10/20/2021					<0.0008				<0.0008					<0.0008	<0.0008			<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	
Cadmium	7440-66-6	mg/L	5/2/2022					<0.0008		<0.0008	<0.0008						<0.0008	<0.0008			<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	
Cadmium	7440-66-6	mg/L	10/14/2022					<0.0008													<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	
Cadmium	7440-66-6	mg/L	5/1/2023					<0.0002		<0.0002	<0.0002									<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Cadmium	7440-66-6	mg/L	10/16/2023					<0.0002													<0.0002	<0.0002	0.000102J	<0.0002	<0.0002	
Cadmium	7440-66-6	mg/L	4/29/2024					<0.0002		<0.0002	<0.0002										<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Cadmium	7440-66-6	mg/L	10/15/2024																							
Cadmium	7440-66-6	mg/L	10/14/2024																							
Calcium	7440-66-6	mg/L	6/2/2014	131	176		129	105	49.5	64.7	87.1	109	118	68.2	95.5	83.7	228	104	106	152	135	27.4	85.2	108	110	
Calcium	7440-66-6	mg/L	10/15/2014	123	157	84.1	160	106	46.9	66.1	95.7	115	103	62.4	120	80.5	195	121	101	127	146	28.6	90.4	112	96.7	
Carbon Disulfide	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1	<1																
Carbon Disulfide	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1	<1																
Carbon Disulfide	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1	<1																
Carbon Disulfide	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1	<1																
Carbon Disulfide	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1	<1																
Carbon Disulfide	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1	<1																

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A D	MW-18AR D	MW-23A D	MW-24A D	MW-25A-00 D	MW-29A D	MW-34A U	MW-38A U	MW-200A D	MW-201A D	MW-202A D	MW-203A D	MW-204A D	MW-205A D	MW-213A D	MW-214A D	MW-215A D	MW-216A D	MW-217A D	MW-218A D	MW-219A D	MW-220A D
Carbon disulfide	7440-66-6	ug/L	10/9/2024										<1.00												
Carbon disulfide	7440-66-6	ug/L	10/15/2024																						
Carbon disulfide	7440-66-6	ug/L	10/14/2024																		<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	7440-66-6	ug/L	2/27/2008	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	5/12/2008	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	7/13/2008	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	9/14/2008	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	11/17/2008	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	7/7/2009										<2	<2	<2	<2			<2	<2					
Carbon Tetrachloride	7440-66-6	ug/L	9/2/2009										<2	<2	<2	<2			<2	<2					
Carbon Tetrachloride	7440-66-6	ug/L	10/25/2009	<2	<2	<5	<2	<2	<2	<5			<2	<2	<2	<2			<2	<2					
Carbon Tetrachloride	7440-66-6	ug/L	1/2/2010										<2	<5	<2	<5			<2	<2					
Carbon Tetrachloride	7440-66-6	ug/L	3/3/2010										<2	<2	<2	<2			<2	<2					
Carbon Tetrachloride	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4	<4		<4	<4	<4	<4	<4	<4	<4	<4	<4					
Carbon Tetrachloride	7440-66-6	ug/L	7/8/2010										<5				<5	<5							
Carbon Tetrachloride	7440-66-6	ug/L	9/13/2010									<5					<5	<5							
Carbon Tetrachloride	7440-66-6	ug/L	11/1/2010	<5	<5	<2		<5	<5	<2			<5	<5	<5	<5									
Carbon Tetrachloride	7440-66-6	ug/L	1/10/2011										<2				<2	<2							
Carbon Tetrachloride	7440-66-6	ug/L	4/4/2011										<2				<2	<4							
Carbon Tetrachloride	7440-66-6	ug/L	10/13/2011	<2	<2	<2		<2	<2	<2			<2	<2	<2	<2	<2	<2	<2						
Carbon Tetrachloride	7440-66-6	ug/L	12/5/2011																						
Carbon Tetrachloride	7440-66-6	ug/L	4/11/2012	<2	<2	<2	<2	<2	<2	<2			<2	<2	<2	<2	<2	<2	<2	<2					
Carbon Tetrachloride	7440-66-6	ug/L	6/25/2012																						
Carbon Tetrachloride	7440-66-6	ug/L	8/1/2012										<2	<2	<2	<2									
Carbon Tetrachloride	7440-66-6	ug/L	8/1/2012	<2	<2	<2	<2	<2	<2	<2	<2	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/13/2012										<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	12/13/2012										<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	2/4/2013										<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2013	<2	<2	<2	<2	<2	<2	<2			<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	7/10/2013																						
Carbon Tetrachloride	7440-66-6	ug/L	10/7/2013	<2	<2	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/2/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	6/12/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/15/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/6/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/5/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/4/2016	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/17/2016	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/17/2017	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/11/2017	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/20/2018		<2																				
Carbon Tetrachloride	7440-66-6	ug/L	4/23/2018	<2																					
Carbon Tetrachloride	7440-66-6	ug/L	4/25/2018						<2				<2	<2	<2	<2	<2								
Carbon Tetrachloride	7440-66-6	ug/L	4/30/2018			<2	<2	<2																	
Carbon Tetrachloride	7440-66-6	ug/L	5/1/2018								<2										<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	5/2/2018															<2							
Carbon Tetrachloride	7440-66-6	ug/L	10/16/2018	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/16/2019	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/1/2019	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2020	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/7/2020	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	7440-66-6	ug/L	10/20/2021																						
Carbon Tetrachloride	7440-66-6	ug/L	5/2/2022					0.4J	0.6J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	7440-66-6	ug/L	10/14/2022					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.5J, 0.4J
Carbon Tetrachloride	7440-66-6	ug/L	5/1/2023	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2			<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/16/2023										<2	<2	<2	<2			<2	<2					
Carbon Tetrachloride	7440-66-6	ug/L	4/29/2024							<2	<2	<2	<2	<2	<2	<2									
Carbon tetrachloride	7440-66-6	ug/L	10/10/2024						<2.00			<2.00	<2.00	<2.00	<2.00	<2.00					<2	<2	<2	<2	<2
Carbon tetrachloride	7440-66-6	ug/L	10/9/2024																						
Carbon tetrachloride	7440-66-6	ug/L	10/15/2024										<2.00										<2.00	<2.00	<2.00
Carbon tetrachloride	7440-66-6	ug/L	10/14/2024																						
Carbonate	7440-66-6	mg/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<	

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

[illegible]

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Chlorodibromomethane	7440-66-6	ug/L	5/1/2023	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/16/2023					<5				<5									<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/29/2024					<5				<5									<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/10/2024						<5.00			<5.00			<5.00										<5
Chlorodibromomethane	7440-66-6	ug/L	10/9/2024											<5.00											
Chlorodibromomethane	7440-66-6	ug/L	10/15/2024																				<5.00	<5.00	<5.00
Chlorodibromomethane	7440-66-6	ug/L	10/14/2024																		<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	7440-66-6	ug/L	2/27/2008	<4	<4	<4	<4	<4	<4	<4															
Chloroethane	7440-66-6	ug/L	5/12/2008	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	6.66		<4	<4						
Chloroethane	7440-66-6	ug/L	7/13/2008	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	9/14/2008	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	11/17/2008	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	4/14/2009	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	7/7/2009											<4	<4	<4			<4	<4					
Chloroethane	7440-66-6	ug/L	9/2/2009											<4	<4	<4			<4	<4					
Chloroethane	7440-66-6	ug/L	10/25/2009	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	12/2010											<4	<4	<4			<4	<4					
Chloroethane	7440-66-6	ug/L	3/3/2010									<4		<4	<4	<4	<4		<4	<4					
Chloroethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4	<4		<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	7/8/2010									<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	9/13/2010									<4		<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	11/1/2010	<4	<4	<4	<4	<4	<4	<4		<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	1/10/2011									<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	4/4/2011									<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	10/13/2011	<4	<4	<4	<4	<4	<4	<4		<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	12/5/2011				<4					<4	<4	<4	<4	<4	5.08	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	4/11/2012	<4	<4	<4	<4	<4	<4	<4		<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	6/25/2012											<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	8/1/2012								<4										<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/11/2012	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	<4	<4	4.92	8.25	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	12/13/2012									<4	<4	<4	<4	<4	<4	<4	<4	<4					
Chloroethane	7440-66-6	ug/L	2/4/2013																		<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	3/30/2013	<4	<4	<4	<4	<4	<4	<4		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	7/10/2013														<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/7/2013	<4	<4	<4	<4		<4	<4	<4	<4	<4	<4	<4	<4	8.54		<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	6/2/2014	<4	2.4J	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	1.28J	2.89J	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/15/2014	<4	1.77J	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	1.1J	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/6/2015	<4	1.99J	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	2.06J	3.53J	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/5/2015	<4	1.91J	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	2.2J	3.75J	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/4/2016	<4	2.75J	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0.343J	0.749J	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/17/2016	<4	4.05	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	3.75J	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/17/2017	0.691J	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/11/2017	<4	6	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	1.88J	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/20/2018		4.51														<4	<4	<4				
Chloroethane	7440-66-6	ug/L	4/23/2018	<4																					
Chloroethane	7440-66-6	ug/L	4/25/2018						<4			<4	<4			<4	<4								
Chloroethane	7440-66-6	ug/L	4/30/2018			<4	<4	<4			<4								<4						
Chloroethane	7440-66-6	ug/L	5/1/2018								<4										<4	<4			
Chloroethane	7440-66-6	ug/L	5/2/2018																						
Chloroethane	7440-66-6	ug/L	10/16/2018	<4	3.71J	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/16/2019	<4	4.63	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/1/2019	<4	6.57	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	3/30/2020	<4	<40	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/7/2020	<4	10.3	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	1.61J	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/13/2021	<1	9.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	10/20/2021						<1			<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	5/2/2022						<1			<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	10/14/2022						<1			<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	5/1/2023	<4		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4		<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/16/2023					<4	<4	<4		<4	<4	<4	<4	<4			<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/29/2024																		<4	<4			<4
Chloroethane	7440-66-6	ug/L	10/10/2024						<4.00			<4.00			<4.00										
Chloroethane	7440-66-6	ug/L	10/9/2024											<4.00											
Chloroethane	7440-66-6	ug/L	10/15/2024																						

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Chloroform	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloroform	7440-66-6	ug/L	4/20/2018		<1																					
Chloroform	7440-66-6	ug/L	4/23/2018	<1								<1	<1		<1	<1	<1		<1	<1						
Chloroform	7440-66-6	ug/L	4/25/2018						<1																	
Chloroform	7440-66-6	ug/L	4/30/2018			<1	<1	<1										<1								
Chloroform	7440-66-6	ug/L	5/1/2018								<1										<1	<1				
Chloroform	7440-66-6	ug/L	5/2/2018																				<1	<1	<1	
Chloroform	7440-66-6	ug/L	10/16/2018	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	4/16/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	10/1/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	3/30/2020	<3	<30	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	10/7/2020	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloroform	7440-66-6	ug/L	10/20/2021					<1	<1	<1	<1	<1	<1				<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chloroform	7440-66-6	ug/L	5/2/2022					<1	<1	<1	<1	<1	<1				<1				<1	<1	<1	<1	<1	
Chloroform	7440-66-6	ug/L	10/14/2022					<1	<1	<1	<1	<1	<1					<1			<1	<1	<1	<1	<1	
Chloroform	7440-66-6	ug/L	5/1/2023	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	10/16/2023					<3	<3		<3	<3	<3					<3			<3	<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	4/29/2024					<3	<3	<3	<3	<3	<3	<3						<3	<3	<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	10/10/2024						<3.00			<3.00														
Chloroform	7440-66-6	ug/L	10/9/2024										<3.00													
Chloroform	7440-66-6	ug/L	10/15/2024																							
Chloroform	7440-66-6	ug/L	10/14/2024																		<3.00	<3.00	<3.00	<3.00	<3.00	
Chloromethane	7440-66-6	ug/L	2/27/2008	<3	<3	<3	<3	<3	<3	<3																
Chloromethane	7440-66-6	ug/L	5/12/2008	<3	<3	<3	<3	<3	<3	<3																
Chloromethane	7440-66-6	ug/L	7/13/2008	<3	<3	<3	<3	<3	<3	<3																
Chloromethane	7440-66-6	ug/L	9/14/2008	<3	<3	<3	<3	<3	<3	<3																
Chloromethane	7440-66-6	ug/L	11/17/2008	<3	<3	<3	<3	<3	<3	<3																
Chloromethane	7440-66-6	ug/L	4/14/2009	<3	<3	<3	<3	<3	<3	<3																
Chloromethane	7440-66-6	ug/L	7/7/2009																							
Chloromethane	7440-66-6	ug/L	9/2/2009										<3	<3	<3	<3			<3	<3						
Chloromethane	7440-66-6	ug/L	10/25/2009	<3	<3	<3	<3	<3	<3	<3			<3	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	1/2/2010										<3	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	3/3/2010										<3	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	5/10/2010	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	7/8/2010										<3	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	9/13/2010										<3	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	11/1/2010	<3	<3	<3	<3	<3	<3	<3			<3	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	1/10/2011										<3	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	4/4/2011										<3	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	10/13/2011	<3	<3	<3	<3	<3	<3	<3			<3	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	12/5/2011				<3						<3	<3	<3	<3										
Chloromethane	7440-66-6	ug/L	4/11/2012	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	6/25/2012					<3																		
Chloromethane	7440-66-6	ug/L	8/1/2012							<3	<3															
Chloromethane	7440-66-6	ug/L	10/11/2012	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	12/13/2012																							
Chloromethane	7440-66-6	ug/L	2/4/2013																							
Chloromethane	7440-66-6	ug/L	3/30/2013	<3	<3	<3	<3	<3	<3	<3		<3		<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	7/10/2013																							
Chloromethane	7440-66-6	ug/L	10/7/2013	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	6/2/2014	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	10/15/2014	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	4/6/2015	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	10/5/2015	<3	<3	<3	<3	<3	<3	0.635J	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	4/4/2016	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	10/17/2016	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	4/17/2017	0.39J	0.426J	<3	0.389J	<3	<3	0.366J	0.407J	0.425J	<3	0.421J	0.514J	0.591J	0.532J	<3	<3	<3	0.321J	<3	<3	0.349J	<3	
Chloromethane	7440-66-6	ug/L	10/11/2017	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	4/20/2018		<3									<3	<3	<3			<3	<3						
Chloromethane	7440-66-6	ug/L	4/23/2018	<3									<3	<3	<3	<3										
Chloromethane	7440-66-6	ug/L	4/25/2018						<3																	
Chloromethane	7440-66-6	ug/L	4/30/2018			<3	<3	<3										<3								
Chloromethane	7440-66-6	ug/L	5/1/2018								<3										<3	<3				
Chloromethane	7440-66-6	ug/L	5/2/2018																							

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Chromium	7440-66-6	mg/L	9/2/2009										<0.1	<0.1	<0.1	<0.1			<0.1	<0.1						
Chromium	7440-66-6	mg/L	10/25/2009	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			0.113	<0.1	<0.1	<0.1			<0.1	<0.1						
Chromium	7440-66-6	mg/L	1/2/2010										0.405	<0.1	<0.1	<0.1			<0.1	<0.1						
Chromium	7440-66-6	mg/L	3/3/2010									0.9	0.17	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1						
Chromium	7440-66-6	mg/L	5/10/2010	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	<0.1	<0.1						
Chromium	7440-66-6	mg/L	7/8/2010									<0.1					<0.1	<0.1								
Chromium	7440-66-6	mg/L	9/13/2010									<0.1					<0.1	<0.1								
Chromium	7440-66-6	mg/L	11/1/2010										<0.1	<0.1	<0.1	<0.1										
Chromium	7440-66-6	mg/L	1/10/2011									<0.02				<0.1	<0.02	<0.02								
Chromium	7440-66-6	mg/L	4/4/2011									<0.02	<0.1	<0.1	<0.1	<0.1	<0.02	<0.02	<0.1							
Chromium	7440-66-6	mg/L	7/8/2011							<0.1		<0.1					<0.1	<0.1								
Chromium	7440-66-6	mg/L	8/11/2011							<0.1		<0.1					<0.1	<0.1								
Chromium	7440-66-6	mg/L	10/13/2011	<0.06	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02						
Chromium	7440-66-6	mg/L	12/5/2011				<0.02		<0.02											<0.1						
Chromium	7440-66-6	mg/L	4/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02					
Chromium	7440-66-6	mg/L	6/25/2012					<0.02				<0.02														
Chromium	7440-66-6	mg/L	8/1/2012					<0.02		<0.02	<0.02															
Chromium	7440-66-6	mg/L	10/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Chromium	7440-66-6	mg/L	12/13/2012								0.0411										0.0367	0.0661	<0.02	<0.02	<0.242	
Chromium	7440-66-6	mg/L	2/4/2013								0.0477										<0.02	<0.02	<0.02	<0.02	<0.02	
Chromium	7440-66-6	mg/L	3/30/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Chromium	7440-66-6	mg/L	7/10/2013																		<0.02	<0.02	<0.02	<0.02	<0.02	
Chromium	7440-66-6	mg/L	10/7/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Chromium	7440-66-6	mg/L	6/2/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04	<0.04		
Chromium	7440-66-6	mg/L	10/15/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Chromium	7440-66-6	mg/L	4/6/2015	0.00138J	<0.005	0.00201J; 0.00192J	<0.005	<0.005	<0.005	<0.005	0.00386J	<0.005	<0.005	0.00147J	0.00212J	<0.005	<0.005	<0.005	<0.005	0.00635	<0.005		0.00127J	<0.005	<0.005	
Chromium	7440-66-6	mg/L	10/5/2015	<0.005	0.00177J	<0.005	<0.005	<0.005	<0.005	<0.005	0.00223J	<0.005	<0.005	0.00243J	0.00226J	<0.005	<0.005	0.005	<0.005	<0.005	<0.005		0.00176J; 0.00153J	<0.005	<0.005	
Chromium	7440-66-6	mg/L	4/4/2016	0.00169J	0.00238J	<0.005	0.00224J	<0.005	0.000794J	0.00272J	0.000899J	<0.005	<0.005	0.00207J	0.0021J	<0.005	0.000421J	<0.005	0.00481J	0.000675J	<0.005	<0.005	0.00143J	0.000528J	<0.005	
Chromium	7440-66-6	mg/L	10/17/2016	0.00146J	<0.005	0.00109J	<0.005	0.000937J	<0.005	0.00182J	0.000459J	<0.005	<0.005	0.00151J	0.00172J	<0.005	0.000443J	<0.005	0.000443J	<0.005	<0.005	0.000744J	<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	4/17/2017	0.00162J	<0.005	0.00169J	<0.005	0.00143J	<0.005	<0.005	0.00339J	<0.005	<0.005	0.00171J	0.00398J	<0.005	0.00648	<0.005	0.00648	<0.005	<0.005	0.00117J	<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	10/11/2017	0.00159J	<0.005	<0.005	<0.005	0.000839J	<0.005	<0.005	0.00216J	<0.005	<0.005	0.00146J	0.00443J	0.000803J	0.00136J	<0.005	0.00301J	<0.005	<0.005	0.000921J	<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	4/20/2018		<0.005									0.000855J					0.00287J	<0.005						
Chromium	7440-66-6	mg/L	4/23/2018																							
Chromium	7440-66-6	mg/L	4/25/2018	<0.005								<0.005	<0.005		0.00403J	<0.005	<0.005									
Chromium	7440-66-6	mg/L	4/30/2018			0.00227J; 0.0023J	<0.005	0.000983J	<0.005		0.00263J															
Chromium	7440-66-6	mg/L	5/1/2018																							
Chromium	7440-66-6	mg/L	5/2/2018															<0.005			<0.005	0.00122J				
Chromium	7440-66-6	mg/L	10/16/2018	0.00286J	0.00148J	0.00214J	<0.005	0.00128J	<0.005	0.00462J	0.00559	0.00466J	0.00127J	0.00273J	0.00487J	0.00124J	0.00163J	<0.005	0.0072	0.00625	<0.005		0.00144J	<0.005	<0.005	
Chromium	7440-66-6	mg/L	4/16/2019	0.00188J	<0.005	0.0017J	<0.005	0.00128J	<0.005	<0.005	0.00263J	<0.005	<0.005	0.00183J	0.00344J; 0.00332J	<0.005	<0.005	<0.005	0.003J	<0.005	<0.005		0.00145J	<0.005	<0.005	
Chromium	7440-66-6	mg/L	10/1/2019	0.00169J	<0.005	0.00132J	<0.005	0.000992J	<0.005	<0.005	0.00256J	<0.005	<0.005	0.00182J	0.0028J	<0.005	<0.005	<0.005	0.00312J	0.00197J	<0.005		0.00145J	<0.005	<0.005	
Chromium	7440-66-6	mg/L	3/30/2020	0.00184J	<0.005	0.00198J	<0.005	0.00128J	<0.005	<0.005	0.00248J	<0.005	<0.005	0.00127J	0.00134J	<0.005	<0.005	<0.005	0.00324J	0.00161J	<0.005		0.00134J; 0.00126J	<0.005	<0.005	
Chromium	7440-66-6	mg/L	10/7/2020	0.00181J	<0.005	0.0017J; 0.00163J	<0.005	<0.005	<0.005	<0.005	0.00261J	<0.005	<0.005	0.00188J	<0.005	<0.005	<0.005	<0.005	0.0025J	0.0016J	<0.005		0.00142J	<0.005	<0.005	
Chromium	7440-66-6	mg/L	4/13/2021	0.002J	<0.008	0.0026J	<0.008	0.001J	<0.008	<0.008	0.0025J	0.0006J	0.0008J	0.0009J	0.0024J	<0.008	0.0006J	<0.008	0.0028J	0.0018J	0.0008J		0.0015J	<0.008	<0.008	
Chromium	7440-66-6	mg/L	10/20/2021					0.0011J; 0.0009J				<0.008					<0.008	<0.008	0.001J	0.0013J	<0.008		0.0013J	<0.008	0.0013J	
Chromium	7440-66-6	mg/L	5/2/2022					0.0008J				<0.008	0.0031J				<0.008	<0.008	<0.008	0.0014J	0.0011J		<0.008	<0.008	<0.008	
Chromium	7440-66-6	mg/L	10/14/2022					0.001J; 0.0012J										0.0009J	0.0028J	<0.008			<0.008	<0.008	<0.008	
Chromium	7440-66-6	mg/L	5/1/2023					<0.005		<0.005	0.00256J							<0.005	0.00128J	<0.005			<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	10/16/2023					<0.005										<0.005	0.00185J; 0.00181J	<0.005			<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	4/29/2024					<0.005		<0.005	0.00219J							<0.005	<0.005	<0.005			<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	10/15/2024															<0.005	<0.005	<0.005			<0.0050	<0.0050	<0.0050	
Chromium	7440-66-6	mg/L	10/14/2024																							
Chrysene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10											<0.00500	<0.00500		<0.00500		
Chrysene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10																
Chrysene	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10							
Chrysene	7440-66-6	ug/L	7/10/2013																</							

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/20/2018		58.1									<1											
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/23/2018	<1								<1	<1		<1	<1	<1		<1	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/25/2018						<1																
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/30/2018			<1	<1	<1										<1							
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/1/2018								<1										<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/2/2018																						
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2018	<1	59.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/16/2019	<1	99.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/1/2019	<1	176	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2020	<1	124	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2020	<1	167	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/13/2021	<1	186	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.8J	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/20/2021					<1	<1	<1	<1	<1	<1				<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/2/2022					<1	<1	<1	<1	<1	<1							<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2022					<1	<1	<1	<1	<1	0.6J							<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/1/2023	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2023					<1	<1	<1	<1	<1	<1							<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/29/2024					<1		<1	<1		<1								<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/10/2024						<1.00		<1	<1.00	<1.00										<1.00	<1.00	<1.00
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/9/2024										<1.00												
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/15/2024																						
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2024																		<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5	<5	<5	<5														
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5	<5	<5	<5														
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5	<5	<5	<5														
cis-1,3-Dichloropropene	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5	<5	<5	<5														
cis-1,3-Dichloropropene	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5	<5	<5	<5														
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5	<5	<5	<5														
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/7/2009										<5	<5	<5	<5				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	9/2/2009										<5	<5	<5	<5				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5				<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	1/2/2010										<5	<5	<5	<5				<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/3/2010										<5	<5	<5	<5				<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/8/2010										<5	<5	<5	<5				<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	9/13/2010									<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	11/1/2010	<5	<5	<5		<5	<5	<5			<5	<5	<5	<5	<10	<10							
cis-1,3-Dichloropropene	7440-66-6	ug/L	1/10/2011									<5	<5	<5	<5	<5									
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2011									<5	<5	<5	<5	<5									
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/13/2011	<5	<5	<5		<5	<5	<5	<5		<5	<5	<5	<5				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	12/5/2011				<5						<5	<5	<5	<5				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5				<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	6/25/2012									<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	8/1/2012								<5														
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	12/13/2012									<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	2/4/2013										<5	<5	<5	<5				<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/10/2013																		<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2013	<5	<5	<5			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/6/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/17/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/20/2018		<5				<5				<5	<5				<5			<5			<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/23/2018	<5								<5	<5	<5											
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/25/2018										<5	<5	<5	<5									
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/30/2018			<5	<5	<5								<5		<5							
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/1/2018																						

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Cobalt	7440-66-6	mg/L	12/5/2011				0.00815			0.00368		<0.02					<0.02	0.0176		0.002					
Cobalt	7440-66-6	mg/L	2/6/2012							<0.02															
Cobalt	7440-66-6	mg/L	4/11/2012	<0.02	<0.02	<0.02	0.01	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	0.0106	0.0026	<0.02	0.00979	<0.02	<0.02					
Cobalt	7440-66-6	mg/L	6/25/2012					0.00231		<0.02															
Cobalt	7440-66-6	mg/L	8/1/2012							<0.02	<0.02										0.0171	0.00524	0.00173	0.00508	0.00478
Cobalt	7440-66-6	mg/L	10/11/2012	0.00238	<0.02	<0.02	0.0131	0.00331	0.00171	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.00402	0.00643	0.00651	<0.02	0.00188	0.0437	<0.02	0.00336	0.00506	0.00859
Cobalt	7440-66-6	mg/L	12/13/2012							0.00323										0.0142	0.0405	<0.00155	<0.00155	0.0941	
Cobalt	7440-66-6	mg/L	2/4/2013							0.00939										0.0423	0.015	0.00594	0.003	0.0353	
Cobalt	7440-66-6	mg/L	3/30/2013	<0.00132	0.00213	<0.00132	0.013	<0.00132	<0.00132	<0.00132	<0.00132	<0.00132		<0.00132	0.00242	0.00255	<0.00132	0.0108	<0.00132	0.00177	0.0277	0.00311	0.00363	0.00463	0.0123
Cobalt	7440-66-6	mg/L	7/10/2013																	0.0376	<0.007	<0.007	<0.007	<0.007	
Cobalt	7440-66-6	mg/L	10/7/2013	<0.007	0.0119	<0.007	0.00951	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	0.0126	<0.007	<0.007	0.00997	0.134	<0.007	<0.007	
Cobalt	7440-66-6	mg/L	6/2/2014	<0.00241	<0.00241	<0.00482	0.00813	0.00306	<0.00241	<0.00241	<0.00482	<0.00241	<0.00241	<0.00241	<0.00482	<0.00241	<0.00241	0.00465	<0.00241	<0.00241	<0.00241	<0.00241	<0.00482	<0.00482	<0.00241
Cobalt	7440-66-6	mg/L	10/15/2014	<0.00241	<0.00241	<0.00241	0.0118	<0.00241	<0.00241	<0.00241	<0.00241	<0.00241	<0.00241	<0.00241	<0.00241	<0.00241	<0.00241	0.00911	<0.00241	<0.00241	<0.00241	<0.00241	<0.00241	<0.00241	<0.00241
Cobalt	7440-66-6	mg/L	4/6/2015	<0.0005	0.00109	<0.0005; 0.000072J	0.0104	<0.0005	0.000117J	0.000153J	0.000553	<0.0005	0.000092J	<0.0005	<0.0005	0.00367	0.00194	0.00972	0.00285	0.00161	0.000315J	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	10/5/2015	<0.0005	0.00386	<0.0005	0.00679	<0.0005	0.00392	0.00233	<0.0005	0.00178	<0.0005	<0.0005	<0.0005	0.00405	0.00157	0.00953	0.000924	0.00114	0.000816	<0.0005	0.000085J	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	4/4/2016	<0.0005	0.0092	<0.0005	0.00999; 0.01	0.000058J	0.000061J	0.000049J	0.000074J	0.000051J	0.0035	0.000038J	0.000109J	0.0022	0.00229	0.0182	0.000476J	0.000322J	0.000175J	0.000045J	0.000048J	0.00009J	<0.0005
Cobalt	7440-66-6	mg/L	10/17/2016	<0.0005	0.0025	0.000616	0.00784	0.000113J	0.000929	0.000183J	0.000149J	0.000183J	0.00364	<0.0005	0.000035J	0.00305	0.000608	0.00937	0.00048J	0.000115J	0.000174J	0.000041J	0.000059J	0.000138J	0.000107J
Cobalt	7440-66-6	mg/L	4/17/2017	<0.0005	0.00634	0.000296J	0.00632	<0.0005	0.000097J	0.000185J	<0.0005	<0.0005	0.000115J	<0.0005	<0.0005	0.00165	0.000155J	0.00286	0.00288	0.000807	0.000071J	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	10/11/2017	<0.0005	0.00327	0.000364J	0.0101	<0.0005	0.00103	0.00109	<0.0005	<0.0005	0.00183	<0.0005	<0.0005	0.0036	0.00183	0.015	0.000053J	0.000703	0.000054J	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	4/20/2018		0.00375									<0.0005											
Cobalt	7440-66-6	mg/L	4/23/2018	<0.0005								<0.0005	0.000704		0.000064J	0.00168	0.000178J								
Cobalt	7440-66-6	mg/L	4/25/2018						0.000096J		<0.0005														
Cobalt	7440-66-6	mg/L	4/30/2018			0.000223J; 0.000489J	0.0127	<0.0005										0.0135							
Cobalt	7440-66-6	mg/L	5/1/2018																		<0.0005	<0.0005			
Cobalt	7440-66-6	mg/L	5/2/2018																						
Cobalt	7440-66-6	mg/L	10/16/2018	<0.001	0.00425	0.000243J	0.00673	0.000096J	0.000738J	<0.001	<0.001	0.0012	<0.001	<0.001	<0.001	0.000465J	<0.001	0.0154	<0.001	0.000501J	0.00011J	0.000061J	<0.0005	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	4/16/2019	<0.0005	0.00289	<0.0005	0.00835	<0.0005	0.000159J	0.000094J	<0.0005	0.000201J	0.000792	<0.0005	<0.0005	0.00074	0.00021J	0.00198	<0.0005	0.000403J	0.000129J	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	10/1/2019	<0.0005	0.00388	0.000593	0.01	<0.0005	0.00238	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00125	0.000184J	0.00306	<0.0005	0.000116	0.000098J	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	3/30/2020	<0.0005	0.00405	<0.0005	0.00455	<0.0005	0.000654	0.000126J	<0.0005	<0.0005	0.000752	<0.0005	<0.0005	0.000379J	0.000186J	0.00635	<0.0005	0.000708	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	10/7/2020	<0.0005	0.0031	0.000353J; 0.000278J	0.0102	0.00012J	0.00701	0.00304	<0.0005	0.00104	<0.0005	<0.0005	<0.0005	0.00433	0.000213J	0.0177	0.000106J	0.000689	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	4/13/2021	<0.0004	0.0038	0.0012	0.0048	<0.0004	0.0003J	0.0002J	<0.0004	0.00009J	<0.0004	<0.0004	<0.0004	0.0001J	0.0003J	0.0042	0.0001J	0.0007	0.0001J	<0.0004	<0.0004	<0.0004	<0.0004
Cobalt	7440-66-6	mg/L	10/20/2021		0.006			0.0003J; 0.0001J	0.0026		<0.0004	0.0002J		<0.0004	0.0002J		0.0004	0.0006			0.0003J	<0.0004	<0.0004	<0.0004	0.0007
Cobalt	7440-66-6	mg/L	5/2/2022	<0.0004	0.0029	0.0007	0.009	0.0015	0.0003J	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.0003J	<0.0004	0.0003J	0.0012	0.0016	0.0015	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
Cobalt	7440-66-6	mg/L	10/14/2022		0.0038		0.0112	<0.0004; 0.0042	0.0023		0.0015J	0.0089								0.0013	0.0007	<0.0004	<0.0004	<0.0004	<0.0004
Cobalt	7440-66-6	mg/L	5/1/2023	<0.0005	0.00245	<0.0005	0.0117	<0.0005	0.00209; 0.00223	<0.0005	<0.0005	0.000292J	0.000246J	0.000245J	<0.0005	0.000252J	0.00025J	0.00162	0.00314	0.00121	0.000203J	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	10/16/2023		0.00167		0.0115	<0.0005	0.00112		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000389J	0.000811; 0.000596	<0.0005	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	4/29/2024	<0.0005	0.00126	<0.0005	0.00645	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000319J	0.000426J	0.000263J	0.000539	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cobalt	7440-66-6	mg/L	10/10/2024						0.00642			0.000263J													
Cobalt	7440-66-6	mg/L	10/9/2024		0.00281								<0.000500												
Cobalt	7440-66-6	mg/L	10/15/2024				0.00854																		
Cobalt	7440-66-6	mg/L	10/14/2024																		<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Copper	7440-66-6	mg/L	2/27/2008	0.028	0.034	0.067	0.031	<0.025	<0.025	<0.025															
Copper	7440-66-6	mg/L	5/12/2008	0.026	<0.025	0.027	0.029	<0.025	0.034	0.03															
Copper	7440-66-6	mg/L	7/13/2008	<0.025	<0.025	<0.025	0.027	<0.025	<0.025	<0.025															
Copper	7440-66-6	mg/L	9/14/2008	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025															
Copper	7440-66-6	mg/L	11/17/2008	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02															
Copper	7440-66-6	mg/L	4/14/2009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025															
Copper	7440-66-6	mg/L	7/7/2009					<0.025	<0.025	<0.025		<0.025	<0.025	<0.025	<0.025				<0.025	<0.025					
Copper	7440-66-6	mg/L	9/2/2009					<0.025	<0.025	<0.025		0.033	0.031	<0.02											

Table 9A
Analytical Data Summary - Series A HSMP Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-17A D	MW-18AR D	MW-23A D	MW-24A D	MW-25A-00 D	MW-29A D	MW-34A U	MW-38A U	MW-200A D	MW-201A D	MW-202A D	MW-203A D	MW-204A D	MW-205A D	MW-213A D	MW-214A D	MW-215A D	MW-216A D	MW-217A D	MW-218A D	MW-219A D	MW-220A D
Copper	7440-66-6	mg/L	10/14/2024																		<0.00500	<0.00500		<0.00500	
Cyanide	7440-66-6	mg/L	4/14/2009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01															
Cyanide	7440-66-6	mg/L	5/10/2010	<0.01	<0.01	<0.01	<0.01	<0.01					<0.01	<0.01	<0.01	<0.01			<0.01	<0.01					
Cyanide	7440-66-6	mg/L	7/8/2010						<0.01	<0.01															
Cyanide	7440-66-6	mg/L	9/13/2010						<0.01	<0.01															
Cyanide	7440-66-6	mg/L	11/1/2010						<0.01	<0.01															
Cyanide	7440-66-6	mg/L	1/10/2011						<0.01	<0.01															
Cyanide	7440-66-6	mg/L	4/4/2011						<0.01	<0.01		<0.01					<0.01	<0.01							
Cyanide	7440-66-6	mg/L	7/10/2013							<0.01							<0.01	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide	7440-66-6	mg/L	6/2/2014						<0.01																
Cyanide	7440-66-6	mg/L	10/15/2014						<0.01																
Cyanide	7440-66-6	mg/L	4/6/2015						<0.01																
Cyanide	7440-66-6	mg/L	10/5/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01						
Cyanide	7440-66-6	mg/L	4/4/2016						<0.01			<0.01					<0.01	<0.01							
Cyanide	7440-66-6	mg/L	10/17/2016						<0.01																
Cyanide	7440-66-6	mg/L	5/1/2018																						
Cyanide	7440-66-6	mg/L	5/2/2018																		<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide	7440-66-6	mg/L	3/30/2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				<0.01	<0.01	<0.01	<0.01		<0.01	<0.01						
Cyanide	7440-66-6	mg/L	10/20/2021									<0.005					<0.005	<0.005	<0.01	<0.01					
Cyanide	7440-66-6	mg/L	5/1/2023																		<0.01	<0.01	<0.01	<0.01	<0.01
Delta-BHC	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032															
Delta-BHC	7440-66-6	ug/L	10/25/2009							<0.032															
Delta-BHC	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032		<0.032	<0.032						
Delta-BHC	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032							
Delta-BHC	7440-66-6	ug/L	10/11/2012								<0.032														
Delta-BHC	7440-66-6	ug/L	7/10/2013							<0.0327	<0.036										<0.0327	<0.0323	0.242	<0.0348	<0.0348
Delta-BHC	7440-66-6	ug/L	10/7/2013																				<0.0323		
Delta-BHC	7440-66-6	ug/L	6/2/2014																				<0.0333		
Delta-BHC	7440-66-6	ug/L	10/15/2014																				<0.032		
Delta-BHC	7440-66-6	ug/L	4/6/2015																				<0.032		
Delta-BHC	7440-66-6	ug/L	10/5/2015	<0.0327	<0.0333	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	0.00307J			<0.0348	<0.0323					<0.032
Delta-BHC	7440-66-6	ug/L	4/4/2016									<0.032					0.0154J	<0.032							<0.032
Delta-BHC	7440-66-6	ug/L	10/17/2016																						<0.032
Delta-BHC	7440-66-6	ug/L	4/17/2017																						<0.0327
Delta-BHC	7440-66-6	ug/L	10/11/2017																						<0.034
Delta-BHC	7440-66-6	ug/L	5/1/2018																						
Delta-BHC	7440-66-6	ug/L	5/2/2018																		<0.0333	<0.0323	<0.0337	<0.0337	<0.0333
Delta-BHC	7440-66-6	ug/L	10/16/2018																				<0.0323		
Delta-BHC	7440-66-6	ug/L	4/16/2019																				<0.0333		
Delta-BHC	7440-66-6	ug/L	3/30/2020	0.00259J	<0.033	<0.0337	<0.0333	<0.0344	<0.0337				<0.0337	<0.0333	<0.0333	<0.0333		<0.033	<0.033						
Delta-BHC	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05	<0.033	<0.033					
Delta-BHC	7440-66-6	ug/L	5/1/2023																		<0.064	<0.0744	<0.0711	<0.064	<0.064
Diallate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Diallate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10															
Diallate	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10						
Diallate	7440-66-6	ug/L	7/10/2013																						
Diallate	7440-66-6	ug/L	6/2/2014																			<10.2	<10.1	<10.1	<10.3
Diallate	7440-66-6	ug/L	10/15/2014																					<10.1	<10.3
Diallate	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					<10
Diallate	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Diallate	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
Diallate	7440-66-6	ug/L	5/2/2018																						
Diallate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4
Diallate	7440-66-6	ug/L	10/20/2021									<8					<8	<8	<10.4	<10.4					
Diallate	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Dibenz [a,h] anthracene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Dibenz [a,h] anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Dibenz [a,h] anthracene	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Dibenz [a,h] anthracene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
Dibenz [a,h] anthracene	7440-66-6	ug/L	6/2/2014																					<10.1	
Dibenz [a,h] anthracene	7440-66-6	ug/L	10/15/2014																					<10	
Dibenz [a,h] anthracene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Dibenz [a,h] anthracene	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Dibenz [a,h] anthracene	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
Dibenz [a,h] anthracene	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
Dibenz [a,h] anthracene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
Dibenz [a,h] anthracene	7440-66-6	ug/L	10/20/2021									<8					<8	<8	<10.4	<10.4					
Dibenz [a,h] anthracene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Dibenzofuran	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Dibenzofuran	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Dibenzofuran	7440-66-6	ug/L	4/4/2011									<10					<10	<10							

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

[illegible]

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Diethyl phthalate	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3		<10	<10	<11.1	<10.1				
Diethyl phthalate	7440-66-6	ug/L	4/4/2016																						
Diethyl phthalate	7440-66-6	ug/L	5/1/2018																						
Diethyl phthalate	7440-66-6	ug/L	5/2/2018																						
Diethyl phthalate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4
Diethyl phthalate	7440-66-6	ug/L	10/20/2021																						
Diethyl phthalate	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Dimethoate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Dimethoate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10				<10	<10				
Dimethoate	7440-66-6	ug/L	4/4/2011															<10	<10						
Dimethoate	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
Dimethoate	7440-66-6	ug/L	6/2/2014																					<10.1	
Dimethoate	7440-66-6	ug/L	10/15/2014																					<10	
Dimethoate	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Dimethoate	7440-66-6	ug/L	4/4/2016																						
Dimethoate	7440-66-6	ug/L	5/1/2018																						
Dimethoate	7440-66-6	ug/L	5/2/2018																				<10.4	<10.3	
Dimethoate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3														<10.4	<10.5	<10.4
Dimethoate	7440-66-6	ug/L	10/20/2021																						
Dimethoate	7440-66-6	ug/L	5/1/2023																						
Dimethyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Dimethyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10															
Dimethyl phthalate	7440-66-6	ug/L	4/4/2011																						
Dimethyl phthalate	7440-66-6	ug/L	7/10/2013																						
Dimethyl phthalate	7440-66-6	ug/L	6/2/2014																					<106	<10.3
Dimethyl phthalate	7440-66-6	ug/L	10/15/2014																					<10.1	
Dimethyl phthalate	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					<10
Dimethyl phthalate	7440-66-6	ug/L	4/4/2016																						
Dimethyl phthalate	7440-66-6	ug/L	5/1/2018																						
Dimethyl phthalate	7440-66-6	ug/L	5/2/2018																						
Dimethyl phthalate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3														<10.4	<10.5	<10.4
Dimethyl phthalate	7440-66-6	ug/L	10/20/2021																						
Dimethyl phthalate	7440-66-6	ug/L	5/1/2023																						
Dimethylaminoazobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Dimethylaminoazobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10															
Dimethylaminoazobenzene	7440-66-6	ug/L	4/4/2011																						
Dimethylaminoazobenzene	7440-66-6	ug/L	7/10/2013																						
Dimethylaminoazobenzene	7440-66-6	ug/L	6/2/2014																						
Dimethylaminoazobenzene	7440-66-6	ug/L	10/15/2014																						
Dimethylaminoazobenzene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Dimethylaminoazobenzene	7440-66-6	ug/L	4/4/2016																						
Dimethylaminoazobenzene	7440-66-6	ug/L	5/1/2018																						
Dimethylaminoazobenzene	7440-66-6	ug/L	5/2/2018																						
Dimethylaminoazobenzene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3																
Dimethylaminoazobenzene	7440-66-6	ug/L	10/20/2021																						
Dimethylaminoazobenzene	7440-66-6	ug/L	5/1/2023																						
Di-n-butyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Di-n-butyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10															
Di-n-butyl phthalate	7440-66-6	ug/L	4/4/2011																						
Di-n-butyl phthalate	7440-66-6	ug/L	7/10/2013																						
Di-n-butyl phthalate	7440-66-6	ug/L	6/2/2014																						
Di-n-butyl phthalate	7440-66-6	ug/L	10/15/2014																						
Di-n-butyl phthalate	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	2.78J				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Di-n-butyl phthalate	7440-66-6	ug/L	4/4/2016																						
Di-n-butyl phthalate	7440-66-6	ug/L	5/1/2018																						
Di-n-butyl phthalate	7440-66-6	ug/L	5/2/2018																						
Di-n-butyl phthalate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3																
Di-n-butyl phthalate	7440-66-6	ug/L	10/20/2021																						
Di-n-butyl phthalate	7440-66-6	ug/L	5/1/2023																						
Di-n-octyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Di-n-octyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10															
Di-n-octyl phthalate	7440-66-6	ug/L	4/4/2011																						
Di-n-octyl phthalate	7440-66-6	ug/L	7/10/2013																						
Di-n-octyl phthalate	7440-66-6	ug/L	6/2/2014																						
Di-n-octyl phthalate	7440-66-6	ug/L	10/15/2014																						
Di-n-octyl phthalate	7440-66-6	ug/L	10/5/2015	<20.8	<20.4	<20	<21.1	<21.1	<20.2				<21.5	<21.3	<21.1	<20.6			<22.2	<20.2					
Di-n-octyl phthalate	7440-66-6	ug/L	4/4/2016																						
Di-n-octyl phthalate	7440-66-6	ug/L	5/1/2018																						
Di-n-octyl phthalate	7440-66-6	ug/L	5/2/2018																						
Di-n-octyl phthalate	7440-66-6	ug/L	3/30/2020	<20.8	<20.8	<21.5	<20.6	<21.1	<20.6																
Di-n-octyl phthalate	7440-66-6	ug/L	10/20/2021																						
Di-n-octyl phthalate	7440-66-6	ug/L	5/1/2023																						
Dinoseb	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Dinoseb	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10															
Dinoseb	7440-66-6	ug/L	4/4/2011																						
Dinoseb	7440-66-6	ug/L	7/10/2013																						

Table 9A
Analytical Data Summary - Series A HSMP Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A D	MW-18AR D	MW-23A D	MW-24A D	MW-25A-00 D	MW-29A D	MW-34A U	MW-38A U	MW-200A D	MW-201A D	MW-202A D	MW-203A D	MW-204A D	MW-205A D	MW-213A D	MW-214A D	MW-215A D	MW-216A D	MW-217A D	MW-218A D	MW-219A D	MW-220A D
Disulfoton	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Disulfoton	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
Disulfoton	7440-66-6	ug/L	6/2/2014																				<10.1	<10.3	
Disulfoton	7440-66-6	ug/L	10/15/2014																						
Disulfoton	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1				<10	
Disulfoton	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Disulfoton	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
Disulfoton	7440-66-6	ug/L	5/2/2018																						
Disulfoton	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	1.06J	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4
Disulfoton	7440-66-6	ug/L	10/20/2021									<0.4					<0.4	<0.4							
Disulfoton	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Endosulfan I	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032															
Endosulfan I	7440-66-6	ug/L	10/25/2009							<0.032															
Endosulfan I	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032					
Endosulfan I	7440-66-6	ug/L	4/4/2011								<0.032						<0.032	<0.032							
Endosulfan I	7440-66-6	ug/L	10/11/2012																						
Endosulfan I	7440-66-6	ug/L	7/10/2013																						
Endosulfan I	7440-66-6	ug/L	10/5/2015	<0.0327	<0.0333	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	<0.033			<0.0348	<0.0323		<0.0327	<0.0323	<0.0348	<0.0348
Endosulfan I	7440-66-6	ug/L	4/4/2016									<0.032					<0.032	<0.032							
Endosulfan I	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323			
Endosulfan I	7440-66-6	ug/L	5/2/2018																				<0.0337	<0.0337	<0.0333
Endosulfan I	7440-66-6	ug/L	3/30/2020	<0.0333	<0.033	<0.0337	<0.0333	<0.0344	<0.0337				0.00313J	<0.0333	<0.0333	0.00258J			<0.033	<0.033					
Endosulfan I	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05							
Endosulfan I	7440-66-6	ug/L	5/1/2023																						
Endosulfan sulfate	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032															
Endosulfan sulfate	7440-66-6	ug/L	10/25/2009							<0.032															
Endosulfan sulfate	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032					
Endosulfan sulfate	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032							
Endosulfan sulfate	7440-66-6	ug/L	10/11/2012								<0.032														
Endosulfan sulfate	7440-66-6	ug/L	7/10/2013																						
Endosulfan sulfate	7440-66-6	ug/L	10/5/2015	<0.0327	<0.0333	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	<0.033			<0.0348	<0.0323		<0.0327	<0.0323	<0.0348	<0.0348
Endosulfan sulfate	7440-66-6	ug/L	4/4/2016									<0.032					0.01J	<0.032		<0.0348	<0.0323				
Endosulfan sulfate	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323			
Endosulfan sulfate	7440-66-6	ug/L	5/2/2018																				<0.0337	<0.0337	<0.0333
Endosulfan sulfate	7440-66-6	ug/L	3/30/2020	<0.0333	<0.033	<0.0337	<0.0333	<0.0344	<0.0337				<0.0337	<0.0333	<0.0333	<0.0333			<0.033	<0.033					
Endosulfan sulfate	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05		<0.033	<0.033				
Endosulfan sulfate	7440-66-6	ug/L	5/1/2023																		<0.064	<0.0744	<0.0711	<0.064	<0.064
Endosulfan sulfate	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032															
Endosulfan sulfate	7440-66-6	ug/L	10/25/2009							<0.032															
Endosulfan sulfate	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032					
Endosulfan sulfate	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032							
Endosulfan sulfate	7440-66-6	ug/L	10/11/2012																						
Endosulfan sulfate	7440-66-6	ug/L	7/10/2013																						
Endosulfan sulfate	7440-66-6	ug/L	10/5/2015	<0.0327	<0.0333	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	<0.033			<0.0348	<0.0323		<0.0327	<0.0323	<0.0348	<0.0348
Endosulfan sulfate	7440-66-6	ug/L	4/4/2016									<0.032					0.01J	<0.032		<0.0348	<0.0323				
Endosulfan sulfate	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323			
Endosulfan sulfate	7440-66-6	ug/L	5/2/2018																				<0.0337	<0.0337	<0.0333
Endosulfan sulfate	7440-66-6	ug/L	3/30/2020	<0.0333	<0.033	<0.0337	<0.0333	<0.0344	<0.0337				<0.0337	<0.0333	<0.0333	<0.0333			<0.033	<0.033					
Endosulfan sulfate	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05		<0.033	<0.033				
Endosulfan sulfate	7440-66-6	ug/L	5/1/2023																		<0.064	<0.0744	<0.0711	<0.064	<0.064
Endrin	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032															
Endrin	7440-66-6	ug/L	10/25/2009							<0.032															
Endrin	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032					
Endrin	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032							
Endrin	7440-66-6	ug/L	10/11/2012																						
Endrin	7440-66-6	ug/L	7/10/2013																						
Endrin	7440-66-6	ug/L	10/5/2015	<0.0327	0.00206J	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	<0.033			<0.0348	<0.0323		<0.0327	<0.0323	<0.0348	<0.0348
Endrin	7440-66-6	ug/L	4/4/2016									<0.032					0.00354J	<0.032							
Endrin	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323			
Endrin	7440-66-6	ug/L	5/2/2018																				<0.0337	<0.0337	<0.0333
Endrin	7440-66-6	ug/L	3/30/2020	<0.0333	<0.033	<0.0337	<0.0333	<0.0344	<0.0337				<0.0337	<0.0333	<0.0333	<0.0333			<0.033	<0.033					
Endrin	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05		<0.033	<0.033				
Endrin	7440-66-6	ug/L	5/1/2023																						
Endrin aldehyde	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032															
Endrin aldehyde	7440-66-6	ug/L	10/25/2009							<0.032															
Endrin aldehyde	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032					
Endrin aldehyde	7440-66-6	ug/L	1/10/2011																						
Endrin aldehyde	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032							
Endrin aldehyde	7440-66-6	ug																							

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Ethyl Methanesulfonate	7440-66-6	ug/L	6/2/2014																					<10.1	
Ethyl Methanesulfonate	7440-66-6	ug/L	10/15/2014																					<10	
Ethyl Methanesulfonate	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Ethyl Methanesulfonate	7440-66-6	ug/L	4/4/2016									<10					<10	<10			<10.4	<10.3			
Ethyl Methanesulfonate	7440-66-6	ug/L	5/1/2018																						
Ethyl Methanesulfonate	7440-66-6	ug/L	5/2/2018																						
Ethyl Methanesulfonate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4
Ethyl Methanesulfonate	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
Ethyl Methanesulfonate	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Ethylbenzene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1	<1															
Ethylbenzene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1	<1															
Ethylbenzene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1	<1															
Ethylbenzene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1	<1															
Ethylbenzene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1	<1															
Ethylbenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1	<1															
Ethylbenzene	7440-66-6	ug/L	7/7/2009										<1	<1	<1	5.01			<1	<1					
Ethylbenzene	7440-66-6	ug/L	9/2/2009										<1	<1	<1	1.77			<1	<1					
Ethylbenzene	7440-66-6	ug/L	10/25/2009	<2	<2	<1	<2	<2	<1	<1			<2	<2	<2	1.93			<1	<1					
Ethylbenzene	7440-66-6	ug/L	1/2/2010									<1	<1	<1	<1	<1		<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	3/3/2010									<1	<1	<1	<1	<1		<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	1.38	<1	<1	<1	<1					
Ethylbenzene	7440-66-6	ug/L	7/8/2010									<1				1.01	<1	<1							
Ethylbenzene	7440-66-6	ug/L	9/13/2010									<1				1.2	<1	<1							
Ethylbenzene	7440-66-6	ug/L	11/11/2010	<1	<1	<1		<1	<1	<1			<1	<1	<1	<1		<1	<1						
Ethylbenzene	7440-66-6	ug/L	1/10/2011									<1				<1	<1	<1							
Ethylbenzene	7440-66-6	ug/L	4/4/2011									<1				<1	<1	<1							
Ethylbenzene	7440-66-6	ug/L	10/13/2011	<1	<1	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1						
Ethylbenzene	7440-66-6	ug/L	12/5/2011				<1									<1	<1	<1	<1						
Ethylbenzene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1					
Ethylbenzene	7440-66-6	ug/L	8/25/2012					<1																	
Ethylbenzene	7440-66-6	ug/L	8/1/2012							<1															
Ethylbenzene	7440-66-6	ug/L	10/11/2012			<1	<1	<1	<1		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	12/13/2012	<1	<1	<1	<1	<1	<1		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	2/4/2013																		<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1												<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	7/10/2013									<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/7/2013	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/20/2018		<1																				
Ethylbenzene	7440-66-6	ug/L	4/23/2018	<1								<1	<1	<1	<1	<1	<1		<1	<1					
Ethylbenzene	7440-66-6	ug/L	4/25/2018						<1						<1	<1	<1								
Ethylbenzene	7440-66-6	ug/L	4/30/2018			<1	<1	<1	<1									<1					<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	5/1/2018								<1										<1				
Ethylbenzene	7440-66-6	ug/L	5/2/2018																						
Ethylbenzene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/20/2021				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	5/2/2022				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/14/2022				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1				<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	5/1/2023			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/16/2023				<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/29/2024					<1	<1	<1	<1	<1	<1	<1	<1	<1					<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/10/2024						<1.00		<1	<1.00									<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/9/2024										<1.00												
Ethylbenzene	7440-66-6	ug/L	10/15/																						

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Fluorene	7440-66-6	ug/L	4/4/2016									<10					<10	<10			<10.4	<10.3		<10.4	<10.5	<10.4
Fluorene	7440-66-6	ug/L	5/1/2018																							
Fluorene	7440-66-6	ug/L	5/2/2018																							
Fluorene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4						
Fluorene	7440-66-6	ug/L	10/20/2021									<8					<8	<8			<10.6	<10	<9.8	<10.6	<10	
Fluorene	7440-66-6	ug/L	5/1/2023																							
Gamma-BHC [Lindane]	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032																
Gamma-BHC [Lindane]	7440-66-6	ug/L	10/25/2009							<0.032																
Gamma-BHC [Lindane]	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032						
Gamma-BHC [Lindane]	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032								
Gamma-BHC [Lindane]	7440-66-6	ug/L	10/11/2012								<0.032															
Gamma-BHC [Lindane]	7440-66-6	ug/L	7/10/2013																							
Gamma-BHC [Lindane]	7440-66-6	ug/L	10/5/2015	<0.0327	<0.0333	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	0.00274J			<0.0348	<0.0323		<0.0327	<0.0323	<0.0323	<0.0348	<0.0348
Gamma-BHC [Lindane]	7440-66-6	ug/L	4/4/2016									<0.032					0.00253J	<0.032								
Gamma-BHC [Lindane]	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323				
Gamma-BHC [Lindane]	7440-66-6	ug/L	5/2/2018																				<0.0337	<0.0337	<0.0333	
Gamma-BHC [Lindane]	7440-66-6	ug/L	3/30/2020	<0.0333	0.00202J	<0.0337	0.00234J	<0.0344	0.00201J				<0.0337	<0.0333	<0.0333	0.00228J			<0.033	<0.033						
Gamma-BHC [Lindane]	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05			<0.064	<0.0744	<0.0711	<0.064	<0.064	
Gamma-BHC [Lindane]	7440-66-6	ug/L	5/1/2023																							
Gamma-Chlordane	7440-66-6	ug/L	5/10/2010			<0.032		<0.032		<0.032									<0.032							
Heptachlor	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032																	
Heptachlor	7440-66-6	ug/L	10/25/2009							<0.032																
Heptachlor	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032						
Heptachlor	7440-66-6	ug/L	7/8/2010																							
Heptachlor	7440-66-6	ug/L	9/13/2010																							
Heptachlor	7440-66-6	ug/L	11/1/2010																							
Heptachlor	7440-66-6	ug/L	1/10/2011																							
Heptachlor	7440-66-6	ug/L	4/4/2011																							
Heptachlor	7440-66-6	ug/L	4/11/2012									<0.032					<0.032	<0.032								
Heptachlor	7440-66-6	ug/L	10/11/2012								<0.032															
Heptachlor	7440-66-6	ug/L	12/13/2012								<0.05															
Heptachlor	7440-66-6	ug/L	2/4/2013								<0.032															
Heptachlor	7440-66-6	ug/L	7/10/2013																		<0.0327	<0.0323	<0.0323	<0.0348	<0.0348	
Heptachlor	7440-66-6	ug/L	10/5/2015	0.00666J	0.00323J	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	<0.033	0.00388J	<0.032	<0.0348	<0.0323						
Heptachlor	7440-66-6	ug/L	4/4/2016									<0.032														
Heptachlor	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323				
Heptachlor	7440-66-6	ug/L	5/2/2018																			<0.0337	<0.0337	<0.0333		
Heptachlor	7440-66-6	ug/L	3/30/2020	<0.0333	<0.033	<0.0337	<0.0333	<0.0344	<0.0337				<0.0337	<0.0333	<0.0333	<0.0333			<0.033	<0.033						
Heptachlor	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05								
Heptachlor	7440-66-6	ug/L	5/1/2023																		<0.064	<0.0744	<0.0711	<0.064	<0.064	
Heptachlor Epoxide	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032																
Heptachlor Epoxide	7440-66-6	ug/L	10/25/2009							<0.032																
Heptachlor Epoxide	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032	<0.032	<0.032			<0.032	<0.032						
Heptachlor Epoxide	7440-66-6	ug/L	4/4/2011									<0.032					<0.032	<0.032								
Heptachlor Epoxide	7440-66-6	ug/L	10/11/2012								<0.032															
Heptachlor Epoxide	7440-66-6	ug/L	7/10/2013																		<0.0327	<0.0323	<0.0323	<0.0348	<0.0348	
Heptachlor Epoxide	7440-66-6	ug/L	10/5/2015	<0.0327	<0.0333	<0.0337	<0.032	<0.0327	<0.0323				<0.0333	<0.0323	<0.032	<0.033			<0.0348	<0.0323						
Heptachlor Epoxide	7440-66-6	ug/L	4/4/2016									<0.032					<0.032	<0.032								
Heptachlor Epoxide	7440-66-6	ug/L	5/1/2018																		<0.0333	<0.0323				
Heptachlor Epoxide	7440-66-6	ug/L	5/2/2018																			<0.0337	<0.0337	<0.0333		
Heptachlor Epoxide	7440-66-6	ug/L	3/30/2020	<0.0333	<0.033	<0.0337	<0.0333	<0.0344	<0.0337				<0.0337	<0.0333	<0.0333	<0.0333			<0.033	<0.033						
Heptachlor Epoxide	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05								
Heptachlor Epoxide	7440-66-6	ug/L	5/1/2023																		<0.064	<0.0744	<0.0711	<0.064	<0.064	
Hexachlorobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
Hexachlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
Hexachlorobenzene	7440-66-6	ug/L	4/4/2011									<10					<10	<10								
Hexachlorobenzene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3	
Hexachlorobenzene	7440-66-6	ug/L	6/2/2014																				<10.1	<10		
Hexachlorobenzene	7440-66-6	ug/L	10/15/2014																							
Hexachlorobenzene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1						
Hexachlorobenzene	7440-66-6	ug/L	4/4/2016									<10					<10	<10	<11.1	<10.1						
Hexachlorobenzene	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3	<10.4	<10.5	<10.4	
Hexachlorobenzene	7440-66-6	ug/L	5/2/2018																							
Hexachlorobenzene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4	
Hexachlorobenzene	7440-66-6	ug/L	10/20/2021									<0.05					<0.05	<0.05	<10.4	<10.4						
Hexachlorobenzene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
Hexachlorobutadiene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
Hexachlorobutadiene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10										

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D
Hexachloroethane	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3				
Hexachloroethane	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4	
Hexachloroethane	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1		<8	<8	<10.4	<10.4		<10.4	<10.5	<10.4	
Hexachloroethane	7440-66-6	ug/L	10/20/2021									<8					<8	<8			<10.6	<10	<9.8	<10.6	<10	
Hexachloroethane	7440-66-6	ug/L	5/1/2023																							
Hexachloropropene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
Hexachloropropene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
Hexachloropropene	7440-66-6	ug/L	4/4/2011									<10					<10	<10								
Hexachloropropene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3	
Hexachloropropene	7440-66-6	ug/L	6/2/2014																				<10.1	<10		
Hexachloropropene	7440-66-6	ug/L	10/15/2014																							
Hexachloropropene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3		<10	<10	<11.1	<10.1					
Hexachloropropene	7440-66-6	ug/L	4/4/2016									<10														
Hexachloropropene	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3				
Hexachloropropene	7440-66-6	ug/L	5/2/2018																			<10.4	<10.5	<10.4		
Hexachloropropene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1		<8	<8	<10.4	<10.4					
Hexachloropropene	7440-66-6	ug/L	10/20/2021									<8														
Hexachloropropene	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10	
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10						
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	4/4/2011									<10					<10	<10								
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	7/10/2013																							
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	6/2/2014																					<10.1	<10.3	
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	10/15/2014																					<10.1	<10	
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3		<10	<10	<11.1	<10.1					
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	4/4/2016									<10						<10	<10							
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	5/1/2018																							
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	5/2/2018																			<10.4	<10.3			
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1		<8	<8	<10.4	<10.4		<10.4	<10.5	<10.4	
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	10/20/2021									<8														
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	5/1/2023																							
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10	<10																
Iodomethane	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10	<10																
Iodomethane	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10	<10																
Iodomethane	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10	<10																
Iodomethane	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10	<10																
Iodomethane	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10																
Iodomethane	7440-66-6	ug/L	7/7/2009										<10	<20	<20	<20			<20	<20						
Iodomethane	7440-66-6	ug/L	9/2/2009										<10	<10	<10	<10			<10	<10						
Iodomethane	7440-66-6	ug/L	10/25/2009	<10	<10	<50	<10	<10	<20	<50			<10	<10	<10	<10			<20	<20						
Iodomethane	7440-66-6	ug/L	1/2/2010										<20	<10	<20	<10			<20	<20						
Iodomethane	7440-66-6	ug/L	3/3/2010									<10	<10	<10	<10	<10	<10	<10	<10	<10	<10					
Iodomethane	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10						
Iodomethane	7440-66-6	ug/L	7/8/2010									<10	<10	<10	<10	<10	<10	<10	<10	<10						
Iodomethane	7440-66-6	ug/L	9/13/2010									<20					<20	<20								
Iodomethane	7440-66-6	ug/L	11/1/2010	<10	<10	<10		<10	<10	<10			<10	<10	<10	<10										
Iodomethane	7440-66-6	ug/L	1/10/2011									<10					<10	<10								
Iodomethane	7440-66-6	ug/L	4/4/2011									<10					<10	<50								
Iodomethane	7440-66-6	ug/L	10/13/2011	<10	<10	<10		<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10							
Iodomethane	7440-66-6	ug/L	12/5/2011				<20						<10	<10	<10	<10	<10	<10	<10	<20						
Iodomethane	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10						
Iodomethane	7440-66-6	ug/L	6/25/2012					<10																		
Iodomethane	7440-66-6	ug/L	8/1/2012							<10																
Iodomethane	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	12/13/2012																							
Iodomethane	7440-66-6	ug/L	2/4/2013																							
Iodomethane	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10			<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	7/10/2013																							
Iodomethane	7440-66-6	ug/L	10/7/2013	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	4/6/2015	<10	<10	9.07J; <10	<10	<10	<10	<10	<10	<10	<10	9.04J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	10/17/2016	<10	<100	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1								

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A D	MW-18AR D	MW-23A D	MW-24A D	MW-25A-00 D	MW-29A D	MW-34A U	MW-38A U	MW-200A D	MW-201A D	MW-202A D	MW-203A D	MW-204A D	MW-205A D	MW-213A D	MW-214A D	MW-215A D	MW-216A D	MW-217A D	MW-218A D	MW-219A D	MW-220A D
Isobutanol	7440-66-6	mg/L	5/2/2018																						
Isobutanol	7440-66-6	mg/L	3/30/2020	<10	<10	<10	<10	<10	<10				<10	<10	<10	<10			<10	<10			<10	<10	<10
Isobutanol	7440-66-6	mg/L	10/20/2021									<1					<1		<10	<10					
Isobutanol	7440-66-6	mg/L	5/1/2023																		<10	<10	<10	<10	<10
Isodrin	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Isodrin	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10															
Isodrin	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10						
Isodrin	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
Isodrin	7440-66-6	ug/L	6/2/2014																				<10.1	<10	
Isodrin	7440-66-6	ug/L	10/15/2014																						
Isodrin	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Isodrin	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Isodrin	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
Isodrin	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
Isodrin	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
Isodrin	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
Isodrin	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Isophorone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Isophorone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Isophorone	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Isophorone	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
Isophorone	7440-66-6	ug/L	6/2/2014																				<10.1	<10	
Isophorone	7440-66-6	ug/L	10/15/2014																						
Isophorone	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Isophorone	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Isophorone	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
Isophorone	7440-66-6	ug/L	5/2/2018																			<10.4	<10.5	<10.4	
Isophorone	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
Isophorone	7440-66-6	ug/L	10/20/2021									<8					<8	<8	<10.4	<10.4					
Isophorone	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Isosafrole	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Isosafrole	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Isosafrole	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Isosafrole	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
Isosafrole	7440-66-6	ug/L	6/2/2014																				<10.1	<10	
Isosafrole	7440-66-6	ug/L	10/15/2014																						
Isosafrole	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Isosafrole	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Isosafrole	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
Isosafrole	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
Isosafrole	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
Isosafrole	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
Isosafrole	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Kepone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Kepone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Kepone	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Kepone	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
Kepone	7440-66-6	ug/L	6/2/2014																				<10.1	<10	
Kepone	7440-66-6	ug/L	10/15/2014																						
Kepone	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Kepone	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Kepone	7440-66-6	ug/L	5/1/2018																				<10.4	<10.5	<10.4
Kepone	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
Kepone	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					
Kepone	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
Kepone	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Lead	7440-66-6	mg/L	2/27/2008	0.006	<0.005	<0.005	0.008	0.006	0.005	<0.005															
Lead	7440-66-6	mg/L	5/12/2008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005															
Lead	7440-66-6	mg/L	7/13/2008	0.005	<0.005	0.005	0.005	0.005	0.005	0.005															
Lead	7440-66-6	mg/L	9/14/2008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005															
Lead	7440-66-6	mg/L	11/17/2008	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.00509															
Lead	7440-66-6	mg/L	4/14/2009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005															
Lead	7440-66-6	mg/L	7/7/2009							<0.005									<0.005	<0.005					
Lead	7440-66-6	mg/L	9/2/2009							<0.005									<0.004; <0.005	<0.005					
Lead	7440-66-6	mg/L	10/25/2009	<0.005	<0.005	0.0063	<0.005	<0.005	<0.005	<0.005									<0.004; <0.005	<0.005					
Lead	7440-66-6	mg/L	1/2/2010							<0.005															
Lead	7440-66-6	mg/L	3/3/2010									0.31	0.052	<0.005	<0.005	<0.005	0.017; 0.016	<0.005	<0.005	<0.005					
Lead	7440-66-6	mg/L	5/10/2010	<0.002	<0.002	0.038	<0.002	<0.002	<0.002	0.0022		0.023	0.0063	<0.002	<0.002	<0.002	0.0036	0.0034	0.013	<0.002					
Lead	7440-66-6	mg/L	7/8/2010							<0.005		<0.005	0.015				<0.005	0.01; 0.0057	<0.005	<0.005					
Lead	7440-66-6	mg/L	9/13/2010							<0.005		0.018	0.01				0.01	0.015	<0.005	<0.005					

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

[illegible]

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D
Methyl Methacrylate	7440-66-6	ug/L	3/30/2020	<2	<20	<2		<2					<2	<2	<2	<2									
Methyl Methacrylate	7440-66-6	ug/L	10/20/2021									<1					<1	<1		<2			<2	<2	<2
Methyl Methacrylate	7440-66-6	ug/L	5/1/2023																		<2	<2	<2	<2	<2
Methyl Methanesulfonate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Methyl Methanesulfonate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Methyl Methanesulfonate	7440-66-6	ug/L	4/4/2011									<10					<10	<10			<10.2	<10.1	<10.1	<106	<10.3
Methyl Methanesulfonate	7440-66-6	ug/L	7/10/2013																					<10	<10
Methyl Methanesulfonate	7440-66-6	ug/L	6/2/2014																					<10	<10
Methyl Methanesulfonate	7440-66-6	ug/L	10/15/2014																						
Methyl Methanesulfonate	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10	<10.8	<10.6	<10.5	<10.3		<11.1	<10.1					
Methyl Methanesulfonate	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Methyl Methanesulfonate	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
Methyl Methanesulfonate	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
Methyl Methanesulfonate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					<10.4
Methyl Methanesulfonate	7440-66-6	ug/L	10/20/2021									<8					<8	<8	<10.4	<10.4					
Methyl Methanesulfonate	7440-66-6	ug/L	5/1/2023																						
Methylene Chloride	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5	<5	<5											<10.6	<10	<9.8	<10.6	<10
Methylene Chloride	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5	<5	<5															
Methylene Chloride	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5	<5	<5															
Methylene Chloride	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5	<5	<5															
Methylene Chloride	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5	<5	<5															
Methylene Chloride	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5	<5	<5															
Methylene Chloride	7440-66-6	ug/L	7/7/2009										<5	<5	<5	<5			<5	<5					
Methylene Chloride	7440-66-6	ug/L	9/2/2009										<5	<5	<5	<5			<5	<5					
Methylene Chloride	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<5	<5	<5			<5	<5	<5	<5			<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	1/2/2010										<5	<5	<5	<5			<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	3/3/2010									<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	7/8/2010									<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	9/13/2010									<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	11/1/2010	<5	<5	<5		<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5					
Methylene Chloride	7440-66-6	ug/L	1/10/2011									<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/4/2011									<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/13/2011	<5	<5	<5		<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5					
Methylene Chloride	7440-66-6	ug/L	12/5/2011				<5						<5	<5	<5	<5	<5	<5	<5	<5					
Methylene Chloride	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	6/25/2012									<5	<5	<5	<5	<5	<5	<5	<5	<5					
Methylene Chloride	7440-66-6	ug/L	8/1/2012								<5										<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	12/13/2012										<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	2/4/2013										<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	7/10/2013											<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/7/2013	<5	<5	<5			<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/6/2015	<5	<5	<5	<5	<5	0.29J	0.174J	<5	<5	<5	<5	<5	0.172J	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/5/2015	0.659J	0.673J	<5	<5	<5	0.396J	0.462J	<5	0.41J	<5	0.396J	0.527J	0.809J	0.668J	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/4/2016	<5	0.523J	<5	<5	<5	<5	<5	<5	0.218J	<5	<5	<5	<5	0.629J	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/17/2016	0.277J	1.3J	0.278J	0.452J	0.399J	0.547J	0.392J	0.291J	<5	0.385J	<5	0.425J	0.639J	0.59J	0.342J	0.384J	0.687J	0.381J	0.443J	0.41J	0.441J	0.441J
Methylene Chloride	7440-66-6	ug/L	4/17/2017	<5	<5	0.377J	0.424J	0.424J	0.318J	0.409J	0.381J	0.551J	0.559J	0.686J	0.585J	0.733J	0.704J	0.546J	<5	<5	0.361J	0.424J	0.474J	0.531J	0.504J
Methylene Chloride	7440-66-6	ug/L	10/11/2017	<5	0.727J	<5	<5	<5	<5	<5	<5	0.393J	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/20/2018		0.656J									0.578J			<5	<5	0.532J	0.541J					
Methylene Chloride	7440-66-6	ug/L	4/23/2018	0.361J					0.537J			0.193J	<5		0.267J	0.279J	0.178J								
Methylene Chloride	7440-66-6	ug/L	4/25/2018																						
Methylene Chloride	7440-66-6	ug/L	4/30/2018			<5	<5	<5										<5							
Methylene Chloride	7440-66-6	ug/L	5/1/2018								<5										0.235J	0.225J			
Methylene Chloride	7440-66-6	ug/L	5/2/2018																						
Methylene Chloride	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	3/30/2020	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5																

Table 9A
Analytical Data Summary - Series A HSMP Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Nickel	7440-66-6	mg/L	9/13/2010							<0.01		0.038					0.024	0.039							
Nickel	7440-66-6	mg/L	11/1/2010										0.057	<0.01	<0.01	0.019									
Nickel	7440-66-6	mg/L	1/10/2011							<0.05		<0.05		<0.01	<0.01		<0.05	<0.05							
Nickel	7440-66-6	mg/L	4/4/2011									<0.05	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01						
Nickel	7440-66-6	mg/L	7/8/2011							<0.01		0.012					<0.01	0.023							
Nickel	7440-66-6	mg/L	8/11/2011							<0.01		0.017					0.032	0.028; 0.025							
Nickel	7440-66-6	mg/L	10/13/2011	<0.15	<0.05	<0.05		<0.05	<0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05						
Nickel	7440-66-6	mg/L	12/5/2011				<0.05			<0.05		<0.05					<0.05	<0.05		<0.05					
Nickel	7440-66-6	mg/L	4/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05					
Nickel	7440-66-6	mg/L	6/25/2012					<0.05		<0.05															
Nickel	7440-66-6	mg/L	8/1/2012							<0.05	<0.05										<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	7440-66-6	mg/L	10/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	0.0902	<0.05	<0.05	<0.05	0.0594	<0.05	<0.05	<0.05	<0.05
Nickel	7440-66-6	mg/L	12/13/2012								0.0811										<0.05	0.0518	<0.05	<0.05	0.205
Nickel	7440-66-6	mg/L	2/4/2013								0.105										<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	7440-66-6	mg/L	3/30/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	7440-66-6	mg/L	7/10/2013																		0.0535	<0.05	<0.05	<0.05	<0.05
Nickel	7440-66-6	mg/L	10/7/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.147	<0.05	<0.05	<0.05	<0.05	0.0888	<0.05	<0.05	<0.05
Nickel	7440-66-6	mg/L	6/2/2014	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.1	0.0127J	0.0415J	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.05
Nickel	7440-66-6	mg/L	10/15/2014	0.0102J; 0.0095J	0.0155J	<0.05	0.0238J	<0.05	0.0135J	<0.05	0.0101J	0.00997J	0.00784J	0.0108J	0.0232J	0.0278J	0.00953J	0.00918J	0.0131J	0.00944J	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	7440-66-6	mg/L	4/6/2015	0.000806J	0.00294J	0.00078J; 0.000669J	0.00794	0.000872J	0.00148J	0.0011J	0.00175J	<0.005	0.00114J	0.0018J	<0.005	0.018	0.0463	0.00733	0.00554	0.00281J	0.00679	<0.005	<0.005	<0.005	0.00133J
Nickel	7440-66-6	mg/L	10/5/2015	0.000981J	0.00375J	<0.005	0.00507	0.00121J	0.00948	0.00153J	0.000588J	0.000761J	0.00553	<0.005	0.000982J	0.0249	0.0485	0.0076	0.00251J	0.00724	0.00158J; 0.000947J	0.000628J	0.000713J	<0.005	<0.005
Nickel	7440-66-6	mg/L	4/4/2016	<0.005	0.0046J	<0.005	0.00536; 0.00572	<0.005	<0.005	<0.005	<0.005	0.00481J	<0.005	<0.005	0.00992	0.0527	0.00849	0.00155J	0.00176J	0.00758	<0.005	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	10/17/2016	<0.005	0.00324J	0.00254J	0.00619	<0.005	0.00511	<0.005	<0.005	0.00537	<0.005	<0.005	0.0218	0.0274	0.00771	<0.005	<0.005	0.00547	<0.005	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	4/17/2017	<0.005	0.00528	0.00176J	0.00433J	0.000974J	0.00093J	<0.005	<0.005	0.00345J	<0.005	<0.005	0.00766	0.00125J	0.0122	0.00669	0.0022J	0.00585	<0.005	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	10/11/2017	<0.005	0.00385J	0.00124J	0.00773	<0.005	0.00773	0.00226J	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	0.025	0.00426J	<0.005	0.00178J	0.00545	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	4/20/2018		0.00438J									<0.005					<0.005	0.0026J					
Nickel	7440-66-6	mg/L	4/23/2018	<0.005								<0.005	0.00167J		<0.005	0.00692	<0.005								
Nickel	7440-66-6	mg/L	4/25/2018						<0.005		<0.005														
Nickel	7440-66-6	mg/L	4/30/2018			<0.005; 0.00203J	0.00594	<0.005										0.00746							
Nickel	7440-66-6	mg/L	5/1/2018																		0.00538	<0.005			
Nickel	7440-66-6	mg/L	5/2/2018																			<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	10/16/2018	0.000952J	0.00552	0.00118J	0.00521	0.00109J	0.00362	0.00074J	0.000695J	0.00104J	0.00254	0.000872J	<0.002	0.00424	0.0016J	0.00855	0.00105J	0.00218	0.0064	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	4/16/2019	<0.005	0.00385J	<0.005	0.00363J	<0.005	0.00208J	<0.005	0.00208J	<0.005	0.00231J	<0.005	<0.005	0.00647	<0.005	0.00506	<0.005	0.00561	<0.005	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	10/1/2019	<0.005	0.0036J	<0.005	0.0061	<0.005	0.00311J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00387J	<0.005	0.0042J	<0.005	0.00282J	0.00373J	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	3/30/2020	<0.005	0.00472J	<0.005	0.0034J	<0.005	<0.005	<0.005	<0.005	0.00387J	0.0026J	<0.005	<0.005	0.00349J	<0.005	0.00556	<0.005	<0.005	0.00534	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	10/7/2020	<0.005	0.00368J	<0.005	0.00788	<0.005	0.0166	0.00237J	<0.005	<0.005	0.00288J	<0.005	<0.005	0.0156	<0.005	0.00324J	<0.005	0.00535	<0.005	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	4/13/2021	0.0011J	0.0047	0.0021J	0.0044	0.0012J	0.0017J; 0.0016J	0.0008J	<0.004	0.001J	0.0014J	<0.004	<0.004	0.0028J	0.0023J	0.0046	0.001J	0.0022J	0.0065	0.0009J	<0.004	<0.004	<0.004
Nickel	7440-66-6	mg/L	10/20/2021					0.0016J; 0.0013J	0.0144			<0.004	0.0014J		<0.004	0.0016J	0.002J			0.0054	<0.004	<0.004	0.0014J	0.0024J	
Nickel	7440-66-6	mg/L	5/2/2022	<0.004		0.0018J	0.0065	0.0015J	0.0058	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0029J	<0.004	0.0036J	0.0042	0.0041	0.0052	<0.004	<0.004	<0.004	<0.004
Nickel	7440-66-6	mg/L	10/14/2022				0.0088	<0.004; 0.0014J	0.0292			0.0013J	0.012							0.0062	0.0019J	<0.004	<0.004	<0.004	<0.004
Nickel	7440-66-6	mg/L	5/1/2023	<0.005		<0.005	0.00868	<0.005	0.00476J; 0.00489J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00318J	<0.005	0.00226J	0.00494J	0.00231J	0.00276J	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	10/16/2023				0.0097	<0.005	0.0026J			<0.005	<0.005	<0.005	<0.005					0.00354J	<0.005	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	4/29/2024	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00236J	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	10/10/2024						0.0211			<0.00500													
Nickel	7440-66-6	mg/L	10/9/2024										<0.00500												
Nickel	7440-66-6	mg/L	10/15/2024				0.00768																		
Nickel	7440-66-6	mg/L	10/14/2024																		0.00417J	<0.00500	<0.00500	<0.00500	<0.00500
Nitrate (NO3)	7440-66-6	mg/L	4/6/2015	0.686	0.0614J	1.96	<0.1	0.822	<0.1	8.47	4.51	1.73	7.18	6.99	<0.1	<0.1	<0.1	0.478	<0.1	<0.1	0.614	0.0615J	<0.1	<0.1	<0.1
Nitrate (NO3)	7440-66-6	mg/L	10/5/2015	0.604	<0.1	1.37	<0.1	0.756	<0.1	0.0813J	9.89	5.22	<0.1	6.36	7.44	0.119	<0.1	<0.1	0.497	<0.1	<0.1	0.669	0.0816J	0.095J	0.0905J
Nitrate (NO3)	7440-66-6	mg/L	4/4/2016	0.791	<0.1	1.84	1.13	0.653	<0.1	<0.1	9.81	4.75	<0.1	1.1	18.2	<0.1	<0.1	0.837	0.352	2.41	<0.1	0.86	0.122	<0.1	<0.1
Nitrate (NO3)	7440-66-6	mg/L																							

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1									
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	6/2/2014																					<10.1	<10
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	10/15/2014																						
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1			<10	<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	4/4/2016														<10	<10				<10.4	<10.3		
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	5/1/2018																						
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	5/2/2018																						
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					<10.4
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	5/1/2023																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10						<10.6	<10	<9.8	<10.6 <10
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
N-Nitrosodiphenylamine	7440-66-6	ug/L	7/10/2013																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	6/2/2014																					<10.2	<10.1 <10.1 <10
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/15/2014																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2016														<10	<10							
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2016																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/1/2018																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/2/2018																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					<10.4
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/20/2021																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/1/2023																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2011																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	7/10/2013									<10					<10	<10							
N-Nitrosodiphenylamine	7440-66-6	ug/L	6/2/2014																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/15/2014																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2016																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/1/2018														<10	<10							
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/2/2018																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					<10.4
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/20/2021																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/1/2023																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2011																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	7/10/2013																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	6/2/2014																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/15/2014																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2016																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/1/2018																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/2/2018																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					<10.4
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/20/2021																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/1/2023																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2011																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	7/10/2013																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	6/2/2014																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/15/2014																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2016																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/1/2018																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/2/2018																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4					<10.4
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/20/2021																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/1/2023																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2011																						
N-Nitrosodiphenylamine	7440-66-6	ug/L	7/10/2013																						

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

[illegible]

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

[illegible]

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Phorate	7440-66-6	ug/L	5/2/2018																				<10.4	<10.5	<10.4
Phorate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1		<0.4	<0.4	<10.4	<10.4				
Phorate	7440-66-6	ug/L	10/20/2021									<0.4													
Phorate	7440-66-6	ug/L	5/1/2023																						
Potassium	7440-66-6	mg/L	6/2/2014	1.03	<1	<2	<1	0.774J	<1	<1	<2	0.822J	<1	<1	<2	<1	6.24	<1	1.02	4.42	<10.6	<10	<9.8	<10.6	<10
Potassium	7440-66-6	mg/L	10/15/2014	0.857J	<1	<1	<1	<1	<1	<1	0.918J	<1	<1	<1	<1	<1	6.55	<1	0.917J	2.82	1.43	<1	0.864J	1.67J	1.85
Pronamide	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Pronamide	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10															
Pronamide	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10						
Pronamide	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
Pronamide	7440-66-6	ug/L	6/2/2014																				<10.1	<10.1	<10.3
Pronamide	7440-66-6	ug/L	10/15/2014																				<10	<10	<10.3
Pronamide	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Pronamide	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Pronamide	7440-66-6	ug/L	5/1/2018																		<10.4	<10.3			
Pronamide	7440-66-6	ug/L	5/2/2018																						
Pronamide	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4
Pronamide	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
Pronamide	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Propionitrile	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Propionitrile	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10			<10	<10	<10	<10			<10	<10					
Propionitrile	7440-66-6	ug/L	4/4/2011									<10					<10	<20							
Propionitrile	7440-66-6	ug/L	10/11/2012								<10														
Propionitrile	7440-66-6	ug/L	7/10/2013																						
Propionitrile	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10				<10	<10	<10	<10			<10	<10	<10	<10	<10	<10	<10
Propionitrile	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Propionitrile	7440-66-6	ug/L	5/1/2018																		<10	<10			
Propionitrile	7440-66-6	ug/L	5/2/2018																						
Propionitrile	7440-66-6	ug/L	3/30/2020	<10	<100	<10	<10	<10	<10				<10	<10	<10	<10			<10	<10			<10	<10	<10
Propionitrile	7440-66-6	ug/L	10/20/2021									<10					<10	<10							
Propionitrile	7440-66-6	ug/L	5/1/2023																		<10	<10	<10	<10	<10
Pyrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10															
Pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10									<10	<10					
Pyrene	7440-66-6	ug/L	4/4/2011									<10					<10	<10							
Pyrene	7440-66-6	ug/L	7/10/2013																		<10.2	<10.1	<10.1	<106	<10.3
Pyrene	7440-66-6	ug/L	6/2/2014																				<10.1	<10.1	<10.3
Pyrene	7440-66-6	ug/L	10/15/2014																					<10	<10.3
Pyrene	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Pyrene	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Pyrene	7440-66-6	ug/L	5/1/2018																						
Pyrene	7440-66-6	ug/L	5/2/2018																		<10.4	<10.3			
Pyrene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4
Pyrene	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
Pyrene	7440-66-6	ug/L	5/1/2023																						
Safrole	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10	<10											<10.6	<10	<9.8	<10.6	<10
Safrole	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10															
Safrole	7440-66-6	ug/L	4/4/2011									<10	<10	<10	<10	<10	<10	<10	<10	<10					
Safrole	7440-66-6	ug/L	7/10/2013																						
Safrole	7440-66-6	ug/L	6/2/2014																		<10.2	<10.1	<10.1	<106	<10.3
Safrole	7440-66-6	ug/L	10/15/2014																				<10.1	<10.1	<10.3
Safrole	7440-66-6	ug/L	10/5/2015	<10.4	<10.2	<10	<10.5	<10.5	<10.1				<10.8	<10.6	<10.5	<10.3			<11.1	<10.1					
Safrole	7440-66-6	ug/L	4/4/2016									<10					<10	<10							
Safrole	7440-66-6	ug/L	5/1/2018																						
Safrole	7440-66-6	ug/L	5/2/2018																						
Safrole	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.8	<10.3	<10.5	<10.3				<10.4	<10.4	<10.5	<10.1			<10.4	<10.4			<10.4	<10.5	<10.4
Safrole	7440-66-6	ug/L	10/20/2021									<8					<8	<8							
Safrole	7440-66-6	ug/L	5/1/2023																		<10.6	<10	<9.8	<10.6	<10
Selenium	7440-66-6	mg/L	2/27/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01															
Selenium	7440-66-6	mg/L	5/12/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01															
Selenium	7440-66-6	mg/L	7/13/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01															
Selenium	7440-66-6	mg/L	9/14/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01															
Selenium	7440-66-6	mg/L	11/17/2008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005															
Selenium	7440-66-6	mg/L	4/14/2009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01															
Selenium	7440-66-6	mg/L	7/7/2009																						
Selenium	7440-66-6	mg/L	9/2/2009										<0.01	<0.01	<0.01	<0.01			<0.01	<0.01					
Selenium	7440-66-6	mg/L	10/25/2009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	<0.01	<0.01	<0.01			<0.01	<0.01					
Selenium	7440-66-6	mg/L	1/2/2010										<0.01	<0.01	<0.01	<0.01			<0.01	<0.01					
Selenium	7440-66-6	mg/L	3/3/2010									<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					
Selenium	7440-66-6	mg/L	5/10/2010	<0.002	<0.002	0.0026	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	0.0059	<0.002	<0.002	<0.002	<0.002	<0.002				
Selenium	7440-66-6																								

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

[illegible]

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Tetrachloroethene	7440-66-6	ug/L	3/30/2013	<1	28.1	<1	<1	<1	<1																
Tetrachloroethene	7440-66-6	ug/L	7/10/2013																						
Tetrachloroethene	7440-66-6	ug/L	10/7/2013	<1	26	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	6/2/2014	<1	35.1	<1	<1	<1	<1	<1	<1	<1	0.241J	<1	0.351J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/15/2014	<1	44.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.765J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/6/2015	<1	34.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/5/2015	<1	29.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/4/2016	<1	28.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.323J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/17/2016	<1	39.5	<1	<1	<1	<1	<1	<1	<1	0.194J	<1	0.223J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.24J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/11/2017	<1	38.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.371J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/20/2018		42									<1					<1	<1					
Tetrachloroethene	7440-66-6	ug/L	4/23/2018	<1								<1	<1		0.424J	<1	<1								
Tetrachloroethene	7440-66-6	ug/L	4/25/2018						<1																
Tetrachloroethene	7440-66-6	ug/L	4/30/2018			<1	<1	<1										<1							
Tetrachloroethene	7440-66-6	ug/L	5/1/2018								<1										<1	<1		<1	<1
Tetrachloroethene	7440-66-6	ug/L	5/2/2018																						
Tetrachloroethene	7440-66-6	ug/L	10/16/2018	<1	39.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/16/2019	<1	45	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/1/2019	<1	48.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	3/30/2020	<1	42.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/7/2020	<1	41.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/13/2021	<1	46	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/20/2021		34.6			<1	<1			0.5J	<1				<1	<1			<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	5/2/2022		40.6			<1	<1	<1	<1	<1	<1								<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/14/2022		26.9			<1	<1			<1	<1					<1			<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	5/1/2023	<1	29.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/16/2023		29.3			<1	<1			<1	<1								<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/29/2024		28.9			<1	<1	<1	<1	<1	<1								<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/10/2024						<1.00			<1.00													
Tetrachloroethene	7440-66-6	ug/L	10/9/2024		24.6								<1.00												
Tetrachloroethene	7440-66-6	ug/L	10/15/2024																						
Tetrachloroethene	7440-66-6	ug/L	10/14/2024																		<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	7440-66-6	mg/L	2/27/2008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002															
Thallium	7440-66-6	mg/L	5/12/2008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002															
Thallium	7440-66-6	mg/L	7/13/2008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002															
Thallium	7440-66-6	mg/L	9/14/2008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002															
Thallium	7440-66-6	mg/L	11/17/2008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002															
Thallium	7440-66-6	mg/L	4/14/2009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002															
Thallium	7440-66-6	mg/L	7/7/2009																						
Thallium	7440-66-6	mg/L	9/2/2009										<0.002	<0.002	<0.002	<0.002			<0.002	<0.002					
Thallium	7440-66-6	mg/L	10/25/2009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002			<0.002	<0.002					
Thallium	7440-66-6	mg/L	1/2/2010										<0.002	<0.002	<0.002	<0.002			<0.002	<0.002					
Thallium	7440-66-6	mg/L	3/3/2010										<0.002	<0.002	<0.002	<0.002			<0.002	<0.002					
Thallium	7440-66-6	mg/L	5/10/2010	<0.0004	<0.0004	0.00073	<0.0004	<0.0004	<0.0004	<0.0004		0.00048	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004				
Thallium	7440-66-6	mg/L	7/8/2010										<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002					
Thallium	7440-66-6	mg/L	9/13/2010										<0.002	<0.002				<0.002	<0.002						
Thallium	7440-66-6	mg/L	11/1/2010	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002			<0.002	<0.002					
Thallium	7440-66-6	mg/L	1/10/2011										<0.002	<0.002				<0.002	<0.002						
Thallium	7440-66-6	mg/L	4/4/2011							<0.002			<0.002	<0.002				<0.002	<0.002						
Thallium	7440-66-6	mg/L	7/8/2011							<0.002			<0.002	<0.002											
Thallium	7440-66-6	mg/L	8/11/2011							<0.002			<0.002	<0.002											
Thallium	7440-66-6	mg/L	10/13/2011	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004						
Thallium	7440-66-6	mg/L	12/5/2011				<0.002		<0.002	<0.002			<0.002	<0.002							<0.002				
Thallium	7440-66-6	mg/L	4/11/2012	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002					
Thallium	7440-66-6	mg/L	6/25/2012					<0.002	<0.002	<0.002			<0.002	<0.002											
Thallium	7440-66-6	mg/L	8/1/2012						<0.002	<0.002	<0.002														
Thallium	7440-66-6	mg/L	10/11/2012	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	12/13/2012																		<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	2/4/2013																		<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	3/30/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002									

Table 9A
Analytical Data Summary - Series A HSMP Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Thionazin	7440-66-6	ug/L	5/1/2023																						
Tin	7440-66-6	mg/L	4/14/2009	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1											<10.6	<10	<9.8	<10.6	<10
Tin	7440-66-6	mg/L	7/7/2009																						
Tin	7440-66-6	mg/L	9/2/2009																						
Tin	7440-66-6	mg/L	10/25/2009																						
Tin	7440-66-6	mg/L	1/2/2010																						
Tin	7440-66-6	mg/L	5/10/2010	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1	<0.1	<0.1			<0.1	<0.1					
Tin	7440-66-6	mg/L	11/1/2010																						
Tin	7440-66-6	mg/L	4/4/2011									<0.1					<0.1	<0.1							
Tin	7440-66-6	mg/L	4/11/2012							<0.1															
Tin	7440-66-6	mg/L	10/11/2012								<0.1														
Tin	7440-66-6	mg/L	3/30/2013								<0.1														
Tin	7440-66-6	mg/L	7/10/2013																		<0.1	<0.1	<0.1	<0.1	<0.1
Tin	7440-66-6	mg/L	10/5/2015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	<0.005	<0.005	0.00314J			<0.005	<0.005					
Tin	7440-66-6	mg/L	4/4/2016									<0.005					0.00164J	<0.005							
Tin	7440-66-6	mg/L	5/1/2018																		<0.005	<0.005	<0.005	<0.005	<0.005
Tin	7440-66-6	mg/L	5/2/2018																						
Tin	7440-66-6	mg/L	3/30/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005	<0.02	<0.02	<0.005	<0.005					
Tin	7440-66-6	mg/L	10/20/2021									<0.02													
Tin	7440-66-6	mg/L	5/1/2023																		<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1	<1															
Toluene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1	<1															
Toluene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1	<1															
Toluene	7440-66-6	ug/L	9/14/2008	<1	<1	5.07	<1	<1	<1	<1															
Toluene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1	<1															
Toluene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1	<1															
Toluene	7440-66-6	ug/L	7/7/2009										<1	<1	<1	<1			<1	<1					
Toluene	7440-66-6	ug/L	9/2/2009										<1	<1	<1	<1			<1	<1					
Toluene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1			<1	<1					
Toluene	7440-66-6	ug/L	1/2/2010																						
Toluene	7440-66-6	ug/L	3/3/2010																						
Toluene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1					
Toluene	7440-66-6	ug/L	7/8/2010																						
Toluene	7440-66-6	ug/L	9/13/2010																						
Toluene	7440-66-6	ug/L	11/1/2010	<1	<1	<1		<1	<1	<1			<1	<1	<1	<1									
Toluene	7440-66-6	ug/L	1/10/2011														<1	<1							
Toluene	7440-66-6	ug/L	4/4/2011														<1	<1							
Toluene	7440-66-6	ug/L	10/13/2011	<1	<1	<1		<1	<1	<1			<1	<1	<1	<1		<1	<1						
Toluene	7440-66-6	ug/L	12/5/2011				<1														<1				
Toluene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1		<1	<1						
Toluene	7440-66-6	ug/L	6/25/2012					<1																	
Toluene	7440-66-6	ug/L	8/1/2012																						
Toluene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1		<1	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	12/13/2012																			<1	<1	<1	<1
Toluene	7440-66-6	ug/L	2/4/2013																			<1	<1	<1	<1
Toluene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	7/10/2013																			<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/7/2013	<1	<1	<1			<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.231J	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.284J	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/20/2018											<1					<1	<1					
Toluene	7440-66-6	ug/L	4/23/2018	<1					<1				<1		<1	<1	<1								
Toluene	7440-66-6	ug/L	4/25/2018																						
Toluene	7440-66-6	ug/L	4/30/2018			<1	<1	<1										<1							
Toluene	7440-66-6	ug/L	5/1/2018								<1										<1	<1			
Toluene	7440-66-6	ug/L	5/2/2018																					<1	<1
Toluene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	3/30/2020	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.67	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/20/2021					<1	<1	<1		0.3J					<1	<1		<1	<1	<			

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A	
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
Total Suspended Solids	7440-66-6	mg/L	10/1/2019	0.75J	6.62	3	9.75	<1.88	1.25J	<1.88	0.75J	3.13	1.25J	2.38	10.6	6.25	44	17.3	8.75	341	26.8	1.63J	2.63	0.75J	0.75J	
Total Suspended Solids	7440-66-6	mg/L	3/30/2020	<1.88	7.62	1.25J	26.5	<1.88	2.25J	1J	1.88	6.75	92.7	<1.88	<1.88	2.25	38	88	6.63	134	20.4	1.63J; 1.5J	1.88	0.75J	<1.88	
Total Suspended Solids	7440-66-6	mg/L	10/7/2020	<1.88	5.67	2.88; 1.13J	8.25	1.38J	2.13	1J	2.13	70.8	10.8	<1.88	<1.88	22	38	25	5.88	131	5.5	1.63J	<1.88	<1.88	<1.88	
Total Suspended Solids	7440-66-6	mg/L	4/13/2021	<2	18	5	34	<2	4; <2	<2	2	2	3	<2	<2	<2	47	18	5	76	4	<2	<2	<2	<2	
Total Suspended Solids	7440-66-6	mg/L	10/20/2021		17			16; 3	2			3	2				47	4			25	<1	3	5	69	
Total Suspended Solids	7440-66-6	mg/L	5/2/2022	4	10	7	38	<2	2	2	19	3	<2	<3	<2	6	49	21	366	164	8	4	<2	<2	<2; 2	
Total Suspended Solids	7440-66-6	mg/L	10/14/2022		5		17	2; <2	<2			14	4								20	10	<2	<2	<2	
Total Suspended Solids	7440-66-6	mg/L	5/1/2023	1.5J	5.88	14.4	29.5	4	0.875J; 1.75J	1.63J	3.13	4.25	17.1	0.875J	1.13J	12.5	38	10.4	36.8	173	7.75	6.5	1.13J	<1.88	3.13	
Total Suspended Solids	7440-66-6	mg/L	10/16/2023		2.5		10.5	3	2.63			9.87	11.8							11	12.3; 11.4	1.13J	1J	5.13		
Total Suspended Solids	7440-66-6	mg/L	4/29/2024	<1.88	2.13	6.38	10.9	<1.88	<1.88	<1.88	4.13	3.87	2.38	<1.88	1.75J	5.25	31.5	11.4	590	75	6.38	1.63J	<1.88	17.1	3.13; 2	
Total Suspended Solids	7440-66-6	mg/L	10/10/2024					5.88				9.38														
Total Suspended Solids	7440-66-6	mg/L	10/9/2024		4								12.4													
Total Suspended Solids	7440-66-6	mg/L	10/15/2024				20															<1.88		<1.88		
Total Suspended Solids	7440-66-6	mg/L	10/14/2024																		6	<1.88		<1.88	<1.88	
Toxaphene	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2	<2	<2													<1.88		<1.88	
Toxaphene	7440-66-6	ug/L	9/2/2009							<2																
Toxaphene	7440-66-6	ug/L	10/25/2009							<2																
Toxaphene	7440-66-6	ug/L	1/2/2010							<2																
Toxaphene	7440-66-6	ug/L	5/10/2010	<2	<2	<2	<2	<2	<2	<2			<2	<2	<2	<2			<2	<2						
Toxaphene	7440-66-6	ug/L	11/1/2010							<2																
Toxaphene	7440-66-6	ug/L	4/4/2011							<2		<2					<2	<2								
Toxaphene	7440-66-6	ug/L	10/11/2012								<2															
Toxaphene	7440-66-6	ug/L	7/10/2013																		<2.04	<2.02	<2.02	<2.17	<2.17	
Toxaphene	7440-66-6	ug/L	10/5/2015	<2.04	<2.08	<2.11	<2	<2.04	<2.02				<2.08	<2.02	<2	<2.06	<2	<2	<2.17	<2.02						
Toxaphene	7440-66-6	ug/L	4/4/2016									<2					<2	<2	<2.17	<2.02						
Toxaphene	7440-66-6	ug/L	5/1/2018																		<2.08	<2.02				
Toxaphene	7440-66-6	ug/L	5/2/2018																			<2.02	<2.11	<2.11	<2.08	
Toxaphene	7440-66-6	ug/L	3/30/2020	<2.08	<2.06	<2.11	<2.08	<2.15	<2.11				<2.11	<2.08	<2.08	<2.08			<2.06	<2.06						
Toxaphene	7440-66-6	ug/L	10/20/2021									<0.2					<0.2	<0.2	<2.06	<2.06						
Toxaphene	7440-66-6	ug/L	5/1/2023																		<2	<2.33	<2.22	<2	<2	
trans-1,2-Dichloroethene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1	<1																
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1	<1																
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1	<1																
trans-1,2-Dichloroethene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1	<1																
trans-1,2-Dichloroethene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1	<1																
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1	<1																
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/7/2009										<1	<1	<1	<1			<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	9/2/2009										<1	<1	<1	<1			<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1			<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	1/2/2010										<1	<1	<1	<1			<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/3/2010									<1	<1	<1	<1	<1	<1		<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/8/2010							<1			<1	<1	<1	<1	<1	<1	<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	9/13/2010							<1			<1	<1	<1	<1	<1	<1	<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1			<1	<1	<1	<1	<1	<1	<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	1/10/2011							<1			<1	<1	<1	<1	<1	<1	<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2011							<1			<1	<1	<1	<1	<1	<1	<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	12/5/2011				<1														<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1						
trans-1,2-Dichloroethene	7440-66-6	ug/L	6/25/2012				<1			<1																
trans-1,2-Dichloroethene	7440-66-6	ug/L	8/1/2012							<1																
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	12/13/2012							<1											<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	2/4/2013							<1											<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/10/2013											<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/5/2015	<1	0.343J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2016	<1	0.633J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/17/2016	<1	1.1	<1																				

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

[illegible]

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/10/2024						<10.0			<10.0													
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/9/2024										<10.0												
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/15/2024																				<10.0		<10.0
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/14/2024																		<10.0	<10.0		<10.0	
Trichloroethene	7440-66-6	ug/L	2/27/2008	<1	2.58	<1	<1	<1	<1	<1															
Trichloroethene	7440-66-6	ug/L	5/12/2008	<1	3.52	<1	<1	<1	<1	<1															
Trichloroethene	7440-66-6	ug/L	7/13/2008	<1	3.08	<1	<1	<1	<1	<1															
Trichloroethene	7440-66-6	ug/L	9/14/2008	<1	3.75	<1	<1	<1	<1	<1															
Trichloroethene	7440-66-6	ug/L	11/17/2008	<1	3.36	<1	<1	<1	<1	<1															
Trichloroethene	7440-66-6	ug/L	4/14/2009	<1	4.79	<1	<1	<1	<1	<1															
Trichloroethene	7440-66-6	ug/L	7/7/2009		4.55					<1		5.11	<1	<1	<1	<1			<1	<1					
Trichloroethene	7440-66-6	ug/L	9/2/2009		5.64					<1		2.47	<1	<1	<1	<1			<1	<1					
Trichloroethene	7440-66-6	ug/L	10/25/2009	<1	6.3	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1			<1	<1					
Trichloroethene	7440-66-6	ug/L	1/2/2010		7.24					<1		<1	<1	<1	<1	<1			<1	<1					
Trichloroethene	7440-66-6	ug/L	3/3/2010									<1	2.36	<1	<1	<1	<1	<1	<1	<1					
Trichloroethene	7440-66-6	ug/L	5/10/2010	<1	8.59	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1					
Trichloroethene	7440-66-6	ug/L	7/8/2010							<1		<1					<1	<1							
Trichloroethene	7440-66-6	ug/L	9/13/2010							<1		<1					<1	<1							
Trichloroethene	7440-66-6	ug/L	11/1/2010	<1	11.6	<1		<1	<1	<1		<1	<1	<1	<1	<1									
Trichloroethene	7440-66-6	ug/L	1/10/2011							<1		<1					<1	<1							
Trichloroethene	7440-66-6	ug/L	4/4/2011		12.4					<1		<1					<1	<1							
Trichloroethene	7440-66-6	ug/L	10/13/2011	<1	12.3	<1		<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1						
Trichloroethene	7440-66-6	ug/L	12/5/2011				<1																		
Trichloroethene	7440-66-6	ug/L	4/11/2012	<1	13.5	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1					
Trichloroethene	7440-66-6	ug/L	6/25/2012					<1		<1															
Trichloroethene	7440-66-6	ug/L	8/1/2012							<1	<1														
Trichloroethene	7440-66-6	ug/L	10/11/2012	<1	11.4	<1	<1	<1	<1		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	12/13/2012								<1											<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	2/4/2013								<1										<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	3/30/2013	<1	15.1	<1	<1	<1	<1		<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	7/10/2013																		<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/7/2013	<1	14	<1			<1	<1	<1	<1	1.47	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	6/2/2014	<1	21.3	<1	<1	<1	<1	<1	<1	<1	0.828J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/15/2014	<1	25	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/6/2015	<1	21	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/5/2015	<1	21.1	<1	<1	<1	<1	<1	<1	<1	0.411J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/4/2016	<1	19.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/17/2016	<1	27.8	<1	<1	<1	<1	<1	<1	<1	0.724J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/11/2017	<1	30.3	<1	<1	<1	<1	<1	<1	<1	0.301J	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/20/2018		31.6									<1					<1	<1					
Trichloroethene	7440-66-6	ug/L	4/23/2018	<1								<1	<1		<1	<1	<1								
Trichloroethene	7440-66-6	ug/L	4/25/2018						<1																
Trichloroethene	7440-66-6	ug/L	4/30/2018			<1	<1	<1			<1							<1			<1	<1			
Trichloroethene	7440-66-6	ug/L	5/1/2018																						
Trichloroethene	7440-66-6	ug/L	5/2/2018																						
Trichloroethene	7440-66-6	ug/L	10/16/2018	<1	29.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/16/2019	<1	32.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/1/2019	<1	36.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	3/30/2020	<1	32.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/7/2020	<1	35.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/13/2021	<1	34.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/20/2021		27.9			<1	<1	<1		0.4J	<1	<1	<1	<1	0.4J	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	5/2/2022		37.7			<1	<1	<1	<1	<1	<1	<1					<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/14/2022		38.9			<1	<1	<1	<1	<1	<1						<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	5/1/2023	<1	34.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/16/2023		36.2			<1	<1	<1		<1	<1						<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/29/2024		29.3			<1		<1	<1	<1	<1								<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/10/2024						<1.00			<1.00													
Trichloroethene	7440-66-6	ug/L	10/9/2024		28.9								<1.00												
Trichloroethene	7440-66-6	ug/L	10/15/2024																				<1.00		<1.00
Trichloroethene	7440-66-6	ug/L	10/14/2024																		<1.00	<1.00		<1.00	
Trichlorofluoromethane	7440-66-6	ug/L	2/27/2008	<4	21.3	<4	<4	<4	<4	<4															
Trichlorofluoromethane	7440-66-6	ug/L	5/12/2008	<4	25.1	<4	<4	<4	<4	<4															
Trichlorofluoromethane	7440-66-6	ug/L	7/13/2008	<4	16.1	<4	<4	<4	<4	<4															

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Trichlorofluoromethane	7440-66-6	ug/L	4/25/2018																						
Trichlorofluoromethane	7440-66-6	ug/L	4/30/2018			<4	<4	<4										<4							
Trichlorofluoromethane	7440-66-6	ug/L	5/1/2018								<4										<4				
Trichlorofluoromethane	7440-66-6	ug/L	5/2/2018																						
Trichlorofluoromethane	7440-66-6	ug/L	10/16/2018	0.414J	4.4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/16/2019	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/1/2019	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	3/30/2020	0.396J	<40	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/7/2020	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/13/2021	0.4J	2.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	10/20/2021					<1	<1		<1	<1	<1				<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	5/2/2022					<1	<1	<1	<1	<1	<1								<1	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	10/14/2022					<1	<1		<1	<1	<1								<1	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	5/1/2023	0.396J		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4			<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/16/2023					<4	<4		<4	<4	<4								<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/29/2024					<4	<4	<4	<4	<4	<4								<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/10/2024						<4.00			<4.00													
Trichlorofluoromethane	7440-66-6	ug/L	10/9/2024										<4.00												
Trichlorofluoromethane	7440-66-6	ug/L	10/15/2024																				<4.00		<4.00
Trichlorofluoromethane	7440-66-6	ug/L	10/14/2024																		<4.00	<4.00		<4.00	<4.00
Vanadium	7440-66-6	mg/L	2/27/2008	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05															
Vanadium	7440-66-6	mg/L	5/12/2008	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05															
Vanadium	7440-66-6	mg/L	7/13/2008	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05															
Vanadium	7440-66-6	mg/L	9/14/2008	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05															
Vanadium	7440-66-6	mg/L	11/17/2008	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05															
Vanadium	7440-66-6	mg/L	4/14/2009	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05															
Vanadium	7440-66-6	mg/L	7/7/2009										<0.05	<0.05	<0.05	<0.05			<0.05	<0.05					
Vanadium	7440-66-6	mg/L	9/2/2009										<0.05	<0.05	<0.05	<0.05			<0.05	<0.05					
Vanadium	7440-66-6	mg/L	10/25/2009	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05	<0.05	<0.05			<0.05	<0.05					
Vanadium	7440-66-6	mg/L	1/2/2010										<0.05	<0.05	<0.05	<0.05			<0.05	<0.05					
Vanadium	7440-66-6	mg/L	3/3/2010									0.128	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	5/10/2010	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	7/8/2010										<0.05				<0.05	<0.05							
Vanadium	7440-66-6	mg/L	9/13/2010										<0.05				<0.05	<0.05							
Vanadium	7440-66-6	mg/L	11/1/2010	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05			<0.05	<0.05	<0.05	<0.05									
Vanadium	7440-66-6	mg/L	1/10/2011										<0.05				<0.05	<0.05							
Vanadium	7440-66-6	mg/L	4/4/2011							<0.05			<0.05				<0.05	<0.05							
Vanadium	7440-66-6	mg/L	10/13/2011	<0.15	<0.05	<0.05		<0.05	<0.05	<0.05			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	12/5/2011				<0.05														<0.05				
Vanadium	7440-66-6	mg/L	4/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	6/25/2012					<0.05		<0.05															
Vanadium	7440-66-6	mg/L	8/1/2012							<0.05															
Vanadium	7440-66-6	mg/L	10/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	12/13/2012										<0.05												
Vanadium	7440-66-6	mg/L	2/4/2013										<0.05												
Vanadium	7440-66-6	mg/L	3/30/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	7/10/2013																						
Vanadium	7440-66-6	mg/L	10/7/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	6/2/2014	<0.05	<0.05	<0.1	<0.05	0.00456J	<0.05	0.00299J	<0.1	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	10/15/2014	<0.05	<0.05	<0.05	0.00315J	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	4/6/2015	0.000902J	<0.005	0.000592J; 0.00059J	0.000625J	0.000681J	<0.005	<0.005	0.00348J	0.00128J	0.000708J	0.000953J	<0.005	<0.005	0.0009J	<0.005	0.00751	0.00049J	0.00204J	0.00101J	0.00122J	0.000935J	0.000728J
Vanadium	7440-66-6	mg/L	10/5/2015	0.000659J	<0.005	0.00073J	<0.005	0.000587J	<0.005	<0.005	0.0014J	0.00126J	0.00159J	0.000685J	<0.005	<0.005	0.000922J	<0.005	0.00258J	0.000608J	0.000864J	0.000915J; 0.000823J	0.00131J	0.000788J	0.000878J
Vanadium	7440-66-6	mg/L	4/4/2016	0.000754J	<0.005	0.000706J	0.00101J; 0.00125J	0.000913J	0.000473J	0.000694J	0.00194J	0.00152J	0.000276J	0.000818J	0.000337J	0.000325J	0.000852J	<0.005	0.00204J	0.00155J	0.000987J	0.00104J	0.00145J	0.000952J	0.000854J
Vanadium	7440-66-6	mg/L	10/17/2016	0.000565J	0.000673J	<0.005	<0.005	0.000368J	<0.005	<0.005	0.000281J	0.00201J	0.0015J	0.000944J	<0.005	<0.005	0.000712J	0.000325J	0.00235J	0.000753J	0.000363J	0.000559J	0.000504J	0.000437J	0.000274J
Vanadium	7440-66-6	mg/L	4/17/2017	<0.005	<0.005	0.000885J	<0.005	<0.005	<0.005	<0.005	0.00112J	0.00154J	<0.005	<0.005	<0.005	<0.005	0.00152J	0.00721	<0.005	<0.005	<0.005	0.00104J	0.000857J	<0.005	<0.005
Vanadium	7440-66-6	mg/L	10/11/2017	<0.005	<0.005	<0.005	<0.005	0.000862J	<0.005	<0.005	0.00137J	0.00145J	0.00128J	<0.005	<0.005	<0.005	0.0049J	<0.005	<0.005	0.000868J	<0.005	0.00111J	<0.005	<0.005	<0.005
Vanadium	7440-66-6	mg/L	4/20/2018		<0.005									0.00											

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

[illegible]

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D
Xylenes, Total	7440-66-6	ug/L	10/25/2009	<6	<6	<3	<6	<6	<4	<3			<6	<6	<6	<4			<4	<4					
Xylenes, Total	7440-66-6	ug/L	1/2/2010										<6	<3	<6	<3			<6	<6					
Xylenes, Total	7440-66-6	ug/L	3/3/2010									<3	<3	<3	<3	<3	<3	<3	<3	<3					
Xylenes, Total	7440-66-6	ug/L	5/10/2010	<12	<12	<12	<12	<12	<12	<12		<12	<12	<12	<12	<12	<12	<12	<12	<12					
Xylenes, Total	7440-66-6	ug/L	7/8/2010									<3						<3							
Xylenes, Total	7440-66-6	ug/L	9/13/2010									<3						<3							
Xylenes, Total	7440-66-6	ug/L	11/1/2010	<3	<3	<3		<3	<3	<3			<3	<3	<3	<3		<3							
Xylenes, Total	7440-66-6	ug/L	1/10/2011									<3						<3	<3						
Xylenes, Total	7440-66-6	ug/L	4/4/2011									<3						<3	<3						
Xylenes, Total	7440-66-6	ug/L	10/13/2011	<3	<3	<3		<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3						
Xylenes, Total	7440-66-6	ug/L	12/5/2011				<3													<3					
Xylenes, Total	7440-66-6	ug/L	4/11/2012	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3					
Xylenes, Total	7440-66-6	ug/L	6/25/2012					<3				<3													
Xylenes, Total	7440-66-6	ug/L	8/1/2012																						
Xylenes, Total	7440-66-6	ug/L	10/11/2012	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	12/13/2012																						
Xylenes, Total	7440-66-6	ug/L	2/4/2013																						
Xylenes, Total	7440-66-6	ug/L	3/30/2013	<3	<3	<3	<3	<3	<3	<3		<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	7/10/2013																						
Xylenes, Total	7440-66-6	ug/L	10/7/2013	<3	<3	<3			<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	6/2/2014	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	0.172J	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/15/2014	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/6/2015	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/5/2015	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/4/2016	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	0.195J	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/17/2016	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/17/2017	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/11/2017	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/20/2018		<3				<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/23/2018																						
Xylenes, Total	7440-66-6	ug/L	4/25/2018	<3					<3			<3	<3		<3	<3	<3								
Xylenes, Total	7440-66-6	ug/L	4/30/2018			<3	<3	<3														<3	<3		
Xylenes, Total	7440-66-6	ug/L	5/1/2018								<3													<3	
Xylenes, Total	7440-66-6	ug/L	5/2/2018																						
Xylenes, Total	7440-66-6	ug/L	10/16/2018	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/16/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/1/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	3/30/2020	<3	<30	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/7/2020	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/13/2021	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Xylenes, Total	7440-66-6	ug/L	10/20/2021						<2	<2	<2	<2	<2	<2	<2	<2		<2	<2	<2	<2	<2	<2	<2	<2
Xylenes, Total	7440-66-6	ug/L	5/2/2022						<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Xylenes, Total	7440-66-6	ug/L	10/14/2022						<2	<2	<2	<2	<2	<2	<2	<2		<2	<2	<2	<2	<2	<2	<2	<2
Xylenes, Total	7440-66-6	ug/L	5/1/2023				<3		<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/16/2023	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/29/2024					<3	<3	<3	<3	<3	<3	<3	<3	<3					<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/10/2024						<3.00	<3	<3										<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/9/2024									<3.00	<3.00												
Xylenes, Total	7440-66-6	ug/L	10/15/2024																						
Xylenes, Total	7440-66-6	ug/L	10/14/2024																		<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	7440-66-6	mg/L	2/27/2008	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1															
Zinc	7440-66-6	mg/L	5/12/2008	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1															
Zinc	7440-66-6	mg/L	7/13/2008	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1															
Zinc	7440-66-6	mg/L	9/14/2008	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1															
Zinc	7440-66-6	mg/L	11/17/2008	0.022	0.239	0.0309	0.0204	<0.02	<0.02	0.0599															
Zinc	7440-66-6	mg/L	4/14/2009	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1																
Zinc	7440-66-6	mg/L	7/7/2009							<0.1			<0.1	<0.1	<0.1	<0.1			0.203; 0.518	<0.1					
Zinc	7440-66-6	mg/L	9/2/2009							<0.1			<0.1	<0.1	<0.1	<0.1			0.255	<0.1					
Zinc	7440-66-6	mg/L	10/25/2009	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				0.103	<0.1	<0.1	<0.1			<0.1	<0.1					
Zinc	7440-66-6	mg/L	1/2/2010							<0.1			0.448	<0.1	<0.1	<0.1			<0.1	<0.1					
Zinc	7440-66-6	mg/L	3/3/2010									1.38	0.19	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1					
Zinc	7440-66-6	mg/L	5/10/2010	0.0363	0.0884	0.0654	0.0257	0.0225	<0.02	<0.02		0.0457	0.0377	<0.02	0.028	<0.02	<0.02	<0.0283	0.506	0.0256					
Zinc	7440-66-6	mg/L	7/8/2010									<0.1	<0.1	<0.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1					
Zinc	7440-66-6	mg/L	9/13/2010									0.11	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	<0.1	<0.1					
Zinc	7440-66-6	mg/L	11/1/2010																						

Table 9A
Analytical Data Summary - Series A HSMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-17A	MW-18AR	MW-23A	MW-24A	MW-25A-00	MW-29A	MW-34A	MW-38A	MW-200A	MW-201A	MW-202A	MW-203A	MW-204A	MW-205A	MW-213A	MW-214A	MW-215A	MW-216A	MW-217A	MW-218A	MW-219A	MW-220A
				D	D	D	D	D	D	U	U	D	D	D	D	D	D	D	D	D	D	D	D	D	D
Zinc	7440-66-6	mg/L	4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/20/2021					<0.02		<0.02	<0.02	<0.02					<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	5/2/2022					<0.02		<0.02	<0.02						<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/14/2022					<0.02													<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	5/1/2023					<0.02		<0.02	<0.02										<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/16/2023					<0.02													<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	4/29/2024					<0.02		<0.02	<0.02										<0.02	0.006J; <0.02	0.0136J	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/15/2024																		<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/14/2024																		<0.0200	<0.0200	<0.0200	<0.0200	<0.0200

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	7/7/2009								<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	9/2/2009								<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<5	<2		<2	<2	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	1/2/2010								<4	<4	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/3/2010								<2	<2	<2
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4			<4	<4
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	7/8/2010										<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	9/13/2010										<5
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2011										<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	12/5/2011						<2				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	6/25/2012						<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	8/1/2012						<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	12/13/2012						<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	2/4/2013						<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/20/2018										
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/24/2018				<1	<1	<1		<1		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/25/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/20/2021						<1				<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/14/2022						<1				<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2023						<1				<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/29/2024						<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/10/2024										<1.00
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2024						<1.00				
1,1,1-Trichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	7/7/2009								<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	9/2/2009								<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1		<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	1/2/2010								<4	<4	
1,1,1-Trichloroethane	7440-66-6	ug/L	3/3/2010								<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4			<4	<4
1,1,1-Trichloroethane	7440-66-6	ug/L	7/8/2010										<1
1,1,1-Trichloroethane	7440-66-6	ug/L	9/13/2010										<1
1,1,1-Trichloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	4/4/2011										<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	12/5/2011						<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	6/25/2012						<1				

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
1,1,1-Trichloroethane	7440-66-6	ug/L	8/1/2012						<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	12/13/2012						<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	2/4/2013						<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/20/2018						<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
1,1,1-Trichloroethane	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/20/2021						<1				<1
1,1,1-Trichloroethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/14/2022						<1				<1
1,1,1-Trichloroethane	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/16/2023						<1				<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/29/2024						<1	<1			<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/10/2024										<1.00
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2024						<1.00				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/7/2009								<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	9/2/2009								<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<1	<2		<2	<2	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	1/2/2010								<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/3/2010								<2	<2	<2
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/8/2010										<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	9/13/2010										<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2011										<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	12/5/2011						<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	6/25/2012						<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	8/1/2012						<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	12/13/2012						<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	2/4/2013						<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/20/2018						<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/20/2021						<1				<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/14/2022						<1				<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2023						<1				<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/29/2024						<1	<1			<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/10/2024										<1.00
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2024						<1.00				
1,1,2-Trichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	7/7/2009								<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	9/2/2009								<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<1	<2		<2	<2	
1,1,2-Trichloroethane	7440-66-6	ug/L	1/2/2010								<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	3/3/2010								<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	7/8/2010										<1
1,1,2-Trichloroethane	7440-66-6	ug/L	9/13/2010										<1
1,1,2-Trichloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1		<1	<1		<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/4/2011										<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1		<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	12/5/2011						<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	6/25/2012						<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	8/1/2012						<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	12/13/2012						<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	2/4/2013						<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/20/2018						<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
1,1,2-Trichloroethane	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/20/2021						<1				<1
1,1,2-Trichloroethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/14/2022						<1				<1
1,1,2-Trichloroethane	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/16/2023						<1				<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/29/2024						<1	<1			<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/10/2024										<1.00
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2024						<1.00				
1,1-Dichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	2.22	2.57	1.02	<1				
1,1-Dichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	1.27	2.87	1.18	<1				
1,1-Dichloroethane	7440-66-6	ug/L	7/13/2008	<1	1.15	1.28	3.15	<1	<1				
1,1-Dichloroethane	7440-66-6	ug/L	9/14/2008	<1	1.12	2.72	2.95	1.06	<1				
1,1-Dichloroethane	7440-66-6	ug/L	11/17/2008	<1	1.32	8.77	3.2	1.33	<1				
1,1-Dichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	5.31	2.26	<1	<1				
1,1-Dichloroethane	7440-66-6	ug/L	7/7/2009			4.99	2.34			<1		<1	
1,1-Dichloroethane	7440-66-6	ug/L	9/2/2009			6.35	2.35			<1		<1	
1,1-Dichloroethane	7440-66-6	ug/L	10/25/2009	<1	1.43	7.3	2.57	<1	<1		<1	<1	

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
1,1-Dichloroethane	7440-66-6	ug/L	1/2/2010			3.78	2.03				<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	3/3/2010								<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	5/10/2010	<1	1.16	1.5	1.8	<1	<1			<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	7/8/2010										<1
1,1-Dichloroethane	7440-66-6	ug/L	9/13/2010										<1
1,1-Dichloroethane	7440-66-6	ug/L	11/1/2010	<1	1.06	4.74	1.39	<1		<1		<1	
1,1-Dichloroethane	7440-66-6	ug/L	4/4/2011			4.92	1.27						<1
1,1-Dichloroethane	7440-66-6	ug/L	10/13/2011	<1	1.73	7.32	1.32	<1			<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	12/5/2011						<1				
1,1-Dichloroethane	7440-66-6	ug/L	4/11/2012	<1	1.59	6.37	1.36	<1	<1		<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	6/25/2012						<1				
1,1-Dichloroethane	7440-66-6	ug/L	8/1/2012						<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2012	<1	1.75	12.6	1.13	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	12/13/2012						<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	2/4/2013						<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	7.51	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2013	<1	1.28		<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	6/2/2014	<1	1.05	4.05	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	4.18	0.583J	0.766J	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/6/2015	<1	1.3	1.82		0.634J	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/5/2015	<1	1.63	2.84		1.12	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/4/2016	<1	1.49	1.7	0.419J	0.804J	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/17/2016	<1	1.88	2.23	<1	0.976J; 0.808J	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/17/2017	<1	2.17; 1.85	<1	0.383J	1.05	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2017	<1	2.09; 2.21	<1	<1	1.31	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/20/2018						<1				
1,1-Dichloroethane	7440-66-6	ug/L	4/24/2018				0.354J	0.292J			<1		
1,1-Dichloroethane	7440-66-6	ug/L	4/25/2018	<1	1.91	1.21				<1		<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/16/2018	<1	1.91; 2.32	0.327J	<1	0.489J	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/16/2019	<1	1.95	<1	<1	0.866J	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/1/2019	<1	1.97	1.92	0.267J	1.19	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2020	<1	2.12	<1	0.326J	0.592J	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2020	<1	2.11	0.373J	<1	0.807J	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/13/2021	<1	1.9	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/20/2021						<1				<1
1,1-Dichloroethane	7440-66-6	ug/L	5/2/2022				0.4J		<1	<1			<1
1,1-Dichloroethane	7440-66-6	ug/L	10/14/2022						<1				<1
1,1-Dichloroethane	7440-66-6	ug/L	5/1/2023				0.3J		<1	<1	<1		<1
1,1-Dichloroethane	7440-66-6	ug/L	10/16/2023						<1				<1
1,1-Dichloroethane	7440-66-6	ug/L	4/29/2024						<1	0.247J			<1
1,1-Dichloroethane	7440-66-6	ug/L	10/10/2024										<1.00
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2024						<1.00				
1,1-Dichloroethane	7440-66-6	ug/L	2/27/2008	<2	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	5/12/2008	<2	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	7/13/2008	<2	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	9/14/2008	<2	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	11/17/2008	<2	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	7/7/2009								<2	<2	
1,1-Dichloroethane	7440-66-6	ug/L	9/2/2009								<2	<2	
1,1-Dichloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<2	<2		<2	<2	
1,1-Dichloroethane	7440-66-6	ug/L	1/2/2010								<2	<2	
1,1-Dichloroethane	7440-66-6	ug/L	3/3/2010								<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	5/10/2010	<2	<2	<2	<2	<2	<2			<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	7/8/2010										<2
1,1-Dichloroethane	7440-66-6	ug/L	9/13/2010										<2
1,1-Dichloroethane	7440-66-6	ug/L	11/1/2010	<2	<2	<2	<2	<2			<2	<2	
1,1-Dichloroethane	7440-66-6	ug/L	4/4/2011										<2
1,1-Dichloroethane	7440-66-6	ug/L	10/13/2011	<2	<2	<2	<2	<2			<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	12/5/2011						<2				
1,1-Dichloroethane	7440-66-6	ug/L	4/11/2012	<2	<2	<2	<2	<2	<2		<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	6/25/2012						<2				
1,1-Dichloroethane	7440-66-6	ug/L	8/1/2012						<2	<2			
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2012	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	12/13/2012						<2	<2			
1,1-Dichloroethane	7440-66-6	ug/L	2/4/2013						<2	<2			
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2013	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2013	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	6/2/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	10/15/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	4/6/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
1,1-Dichloroethene	7440-66-6	ug/L	10/5/2015	<2	<2	<2		<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/4/2016	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/17/2016	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/17/2017	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2017	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/20/2018						<2				
1,1-Dichloroethene	7440-66-6	ug/L	4/24/2018				<2	<2			<2		
1,1-Dichloroethene	7440-66-6	ug/L	4/25/2018	<2	<2	<2				<2		<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/16/2018	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/16/2019	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/1/2019	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	3/30/2020	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/7/2020	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	10/20/2021						<1				<1
1,1-Dichloroethene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
1,1-Dichloroethene	7440-66-6	ug/L	10/14/2022						<1				<1
1,1-Dichloroethene	7440-66-6	ug/L	5/1/2023				<2		<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/16/2023						<2				<2
1,1-Dichloroethene	7440-66-6	ug/L	4/29/2024						<2	<2			<2
1,1-Dichloroethene	7440-66-6	ug/L	10/10/2024										<2.00
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2024						<2.00				
1,1-Dichloropropene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
1,1-Dichloropropene	7440-66-6	ug/L	9/2/2009								<1		
1,1-Dichloropropene	7440-66-6	ug/L	1/2/2010									<1	
1,1-Dichloropropene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	
1,1-Dichloropropene	7440-66-6	ug/L	4/4/2011										<1
1,1-Dichloropropene	7440-66-6	ug/L	10/15/2014								<1		
1,1-Dichloropropene	7440-66-6	ug/L	10/5/2015	<1	<1	<1		<1	<1		<1	<1	<1
1,1-Dichloropropene	7440-66-6	ug/L	4/4/2016										<1
1,1-Dichloropropene	7440-66-6	ug/L	4/17/2017				<1						
1,1-Dichloropropene	7440-66-6	ug/L	3/30/2020	<1	<1	<1		<1	<1		<1	<1	
1,1-Dichloropropene	7440-66-6	ug/L	10/20/2021										<1
1,1-Dichloropropene	7440-66-6	ug/L	5/2/2022				<1						
1,2,3-Trichloropropane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	7/7/2009								<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	9/2/2009								<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<1	<2		<2	<2	
1,2,3-Trichloropropane	7440-66-6	ug/L	1/2/2010								<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	3/3/2010								<2	<2	<2
1,2,3-Trichloropropane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	7/8/2010										<1
1,2,3-Trichloropropane	7440-66-6	ug/L	9/13/2010										<1
1,2,3-Trichloropropane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	4/4/2011										<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/13/2011	<4	<1	<1	<1	<1			<4	<1	<4
1,2,3-Trichloropropane	7440-66-6	ug/L	12/5/2011						<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	6/25/2012						<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	8/1/2012						<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	12/13/2012						<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	2/4/2013						<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/20/2018						<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/24/2018				<1				<1		
1,2,3-Trichloropropane	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
1,2,3-Trichloropropane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/20/2021						<1				<1
1,2,3-Trichloropropane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/14/2022						<1				<1
1,2,3-Trichloropropane	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/16/2023						<1				<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/29/2024						<1	<1			<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/10/2024										<1.00
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2024						<1.00				
1,2,4,5-Tetrachlorobenzene	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
1,2,4,5-Tetrachlorobenzene	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
1,2,4,5-Tetrachlorobenzene	7440-66-5	ug/L	4/4/2011										<10
1,2,4,5-Tetrachlorobenzene	7440-66-5	ug/L	10/15/2014								<10		
1,2,4,5-Tetrachlorobenzene	7440-66-5	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
1,2,4,5-Tetrachlorobenzene	7440-66-5	ug/L	4/4/2016										<10.3
1,2,4,5-Tetrachlorobenzene	7440-66-5	ug/L	4/17/2017				<11						
1,2,4,5-Tetrachlorobenzene	7440-66-5	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
1,2,4,5-Tetrachlorobenzene	7440-66-5	ug/L	10/20/2021										<8
1,2,4,5-Tetrachlorobenzene	7440-66-5	ug/L	5/2/2022				<8						
1,2,4-Trichlorobenzene	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5	<5				
1,2,4-Trichlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
1,2,4-Trichlorobenzene	7440-66-6	ug/L	4/4/2011										<5
1,2,4-Trichlorobenzene	7440-66-6	ug/L	10/15/2014								<5		
1,2,4-Trichlorobenzene	7440-66-6	ug/L	10/5/2015	<5	<5	<5		<5	<5		<5	<5	
1,2,4-Trichlorobenzene	7440-66-6	ug/L	4/4/2016										<5
1,2,4-Trichlorobenzene	7440-66-6	ug/L	4/17/2017				<5						
1,2,4-Trichlorobenzene	7440-66-6	ug/L	3/30/2020	<5	<5	<5		<5	<5		<5	<5	
1,2,4-Trichlorobenzene	7440-66-6	ug/L	10/20/2021										<1
1,2,4-Trichlorobenzene	7440-66-6	ug/L	5/2/2022				<1						
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/7/2009								<10	<10	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	9/2/2009								<10	<10	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10		<10	<10	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	1/2/2010								<10	<10	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/3/2010								<10	<10	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/8/2010										<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	9/13/2010										<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10			<10	<10	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/4/2011										<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10			<10	<10	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	12/5/2011						<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10		<10	<10	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	6/25/2012						<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	8/1/2012						<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	12/13/2012						<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	2/4/2013						<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/7/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	6/2/2014	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/15/2014	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/6/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/5/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/4/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/17/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/17/2017	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2017	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/20/2018						<0.5				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/24/2018				<0.5	<0.5			<0.5		
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/25/2018	<0.5	<0.5	<0.5				<0.5		<0.5	<0.5

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/16/2018	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/16/2019	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/1/2019	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/30/2020	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/7/2020	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/20/2021						<0.02				<1
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/2/2022				<1		<0.02	<0.02			<0.02
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/14/2022						<0.02, <5				<0.02, <5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/1/2023				<1.2		<1.2	<1.2		<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/16/2023						<1.2				<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/29/2024						<1.2	<1.2			<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/10/2024										<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2024						<1.20				<1.20
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10				
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10				
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10				
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10				
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10				
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10				
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	7/7/2009								<10	<10	
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	9/2/2009								<10	<10	
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10		<10	<10	
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	1/2/2010								<10	<10	
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	3/3/2010								<10	<10	<10
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	<10
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	7/8/2010										<10
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	9/13/2010										<10
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10			<10	<10	
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/4/2011										<10
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10			<10	<10	<10
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	12/5/2011						<10				
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10		<10	<10	<10
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	6/25/2012						<10				
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	8/1/2012						<10	<10			
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	12/13/2012						<10	<10			
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	2/4/2013						<10	<10			
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/7/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	6/2/2014	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/15/2014	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/6/2015	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/5/2015	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/4/2016	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/17/2016	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/17/2017	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/11/2017	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/20/2018						<0.13				
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/24/2018				<0.13	<0.13			<0.13		
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/25/2018	<0.13	<0.13	<0.13				<0.13		<0.13	<0.13
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/16/2018	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/16/2019	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/1/2019	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	3/30/2020	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/7/2020	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/20/2021						<0.02				<1
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	5/2/2022				<1		<0.02	<0.02			<0.02
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/14/2022						<0.02				<0.02
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	5/1/2023				<0.34		<0.34	<0.34		<0.34	<0.34
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/16/2023						<0.34				<0.34
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	4/29/2024						<0.34	<0.34			<0.34
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/10/2024										<0.34
1,2-Dibromomethane (EDB)	7440-66-6	ug/L	10/11/2024						<0.340				
1,2-Dichlorobenzene	7440-66-6	ug/L	2/27/2008	<1		<1	<1	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
1,2-Dichlorobenzene	7440-66-6	ug/L	7/7/2009								<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	9/2/2009								<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<1	<2		<2	<2	
1,2-Dichlorobenzene	7440-66-6	ug/L	1/2/2010								<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	3/3/2010								<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	7/8/2010										<1
1,2-Dichlorobenzene	7440-66-6	ug/L	9/13/2010										<1
1,2-Dichlorobenzene	7440-66-6	ug/L	11/1/2010	<1	<2	<2	<1	<1			<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	4/4/2011										<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	12/5/2011						<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	6/25/2012						<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	8/1/2012							<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	12/13/2012						<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	2/4/2013						<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/20/2018						<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
1,2-Dichlorobenzene	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/20/2021						<1				<1
1,2-Dichlorobenzene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/14/2022						<1				<1
1,2-Dichlorobenzene	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/16/2023						<1				<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/29/2024						<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	10/10/2024										<1.00
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2024						<1.00				
1,2-Dichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	7/7/2009								<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	9/2/2009								<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<1	<2		<2	<2	
1,2-Dichloroethane	7440-66-6	ug/L	1/2/2010								<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	3/3/2010								<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	7/8/2010										<1
1,2-Dichloroethane	7440-66-6	ug/L	9/13/2010										<1
1,2-Dichloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	4/4/2011										<1
1,2-Dichloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	12/5/2011						<1				
1,2-Dichloroethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	6/25/2012						<1				
1,2-Dichloroethane	7440-66-6	ug/L	8/1/2012						<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	12/13/2012						<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	2/4/2013						<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/7/2013	<1	<1		<1	<1	<1	<1	<1	<1	<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
1,2-Dichloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	0.186J		<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/5/2015	<1	<1			<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/20/2018						<1				
1,2-Dichloroethane	7440-66-6	ug/L	4/24/2018				<1	<1					
1,2-Dichloroethane	7440-66-6	ug/L	4/25/2018	<1	<1	0.196J				<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/20/2021						<1				<1
1,2-Dichloroethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
1,2-Dichloroethane	7440-66-6	ug/L	10/14/2022						<1				<1
1,2-Dichloroethane	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/16/2023						<1				<1
1,2-Dichloroethane	7440-66-6	ug/L	4/29/2024						<1	<1			<1
1,2-Dichloroethane	7440-66-6	ug/L	10/10/2024						<1.00				<1.00
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2024										
1,2-Dichloropropane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	7/7/2009								<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	9/2/2009								<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1		<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	1/2/2010								<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	3/3/2010								<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	7/8/2010										<1
1,2-Dichloropropane	7440-66-6	ug/L	9/13/2010										
1,2-Dichloropropane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/4/2011										<1
1,2-Dichloropropane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	12/5/2011						<1				
1,2-Dichloropropane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	6/25/2012						<1				
1,2-Dichloropropane	7440-66-6	ug/L	8/1/2012						<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	12/13/2012						<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	2/4/2013						<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/20/2018						<1				
1,2-Dichloropropane	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
1,2-Dichloropropane	7440-66-6	ug/L	4/25/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/20/2021				<1		<1	<1			<1
1,2-Dichloropropane	7440-66-6	ug/L	5/2/2022						<1	<1			<1
1,2-Dichloropropane	7440-66-6	ug/L	10/14/2022						<1				<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
1,2-Dichloropropane	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/16/2023						<1				<1
1,2-Dichloropropane	7440-66-6	ug/L	4/29/2024						<1	<1			<1
1,2-Dichloropropane	7440-66-6	ug/L	10/10/2024										<1.00
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2024						<1.00				
1,3,5-Trinitrobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20					
1,3,5-Trinitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
1,3,5-Trinitrobenzene	7440-66-6	ug/L	4/4/2011										<10
1,3,5-Trinitrobenzene	7440-66-6	ug/L	10/15/2014								<10		
1,3,5-Trinitrobenzene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
1,3,5-Trinitrobenzene	7440-66-6	ug/L	4/4/2016										<10.3
1,3,5-Trinitrobenzene	7440-66-6	ug/L	4/17/2017				<11						
1,3,5-Trinitrobenzene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
1,3,5-Trinitrobenzene	7440-66-6	ug/L	10/20/2021										<8
1,3,5-Trinitrobenzene	7440-66-6	ug/L	5/2/2022				<8						
1,3-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
1,3-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	
1,3-Dichlorobenzene	7440-66-6	ug/L	4/4/2011										<1
1,3-Dichlorobenzene	7440-66-6	ug/L	10/15/2014								<1		
1,3-Dichlorobenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1		<1	<1		<1	<1	
1,3-Dichlorobenzene	7440-66-6	ug/L	4/4/2016										<1
1,3-Dichlorobenzene	7440-66-6	ug/L	4/17/2017				<1						
1,3-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1	<1	<1		<1	<1		<1	<1	
1,3-Dichlorobenzene	7440-66-6	ug/L	10/20/2021										<1
1,3-Dichlorobenzene	7440-66-6	ug/L	5/2/2022				<1						
1,3-Dichloropropane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
1,3-Dichloropropane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	
1,3-Dichloropropane	7440-66-6	ug/L	4/4/2011										<1
1,3-Dichloropropane	7440-66-6	ug/L	10/15/2014								<1		
1,3-Dichloropropane	7440-66-6	ug/L	10/5/2015	<1	<1	<1		<1	<1		<1	<1	
1,3-Dichloropropane	7440-66-6	ug/L	4/4/2016										<1
1,3-Dichloropropane	7440-66-6	ug/L	4/17/2017				<1						
1,3-Dichloropropane	7440-66-6	ug/L	3/30/2020	<1	<1	<1		<1	<1		<1	<1	
1,3-Dichloropropane	7440-66-6	ug/L	10/20/2021										<1
1,3-Dichloropropane	7440-66-6	ug/L	5/2/2022				<1						
1,3-Dinitrobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
1,3-Dinitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
1,3-Dinitrobenzene	7440-66-6	ug/L	4/4/2011										<10
1,3-Dinitrobenzene	7440-66-6	ug/L	10/15/2014								<10		
1,3-Dinitrobenzene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
1,3-Dinitrobenzene	7440-66-6	ug/L	4/4/2016										<10.3
1,3-Dinitrobenzene	7440-66-6	ug/L	4/17/2017				<11						
1,3-Dinitrobenzene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
1,3-Dinitrobenzene	7440-66-6	ug/L	10/20/2021										<8
1,3-Dinitrobenzene	7440-66-6	ug/L	5/2/2022				<8						
1,4-Dichlorobenzene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	7/7/2009								<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	9/2/2009								<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<1	<2		<2	<2	
1,4-Dichlorobenzene	7440-66-6	ug/L	1/2/2010								<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	3/3/2010								<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	7/8/2010										<1
1,4-Dichlorobenzene	7440-66-6	ug/L	9/13/2010										<1
1,4-Dichlorobenzene	7440-66-6	ug/L	11/1/2010	<2	<1	<1	<2	<2			<1	<2	
1,4-Dichlorobenzene	7440-66-6	ug/L	4/4/2011										<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	12/5/2011						<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	6/25/2012										
1,4-Dichlorobenzene	7440-66-6	ug/L	8/1/2012						<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	12/13/2012						<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	2/4/2013						<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/7/2013	<1	<1		<1	<1	<1	<1	<1	<1	<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
1,4-Dichlorobenzene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/6/2015	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1		<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/20/2018						<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/24/2018				<1	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/20/2021						<1				<1
1,4-Dichlorobenzene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/14/2022						<1				<1
1,4-Dichlorobenzene	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/16/2023						<1				<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/29/2024						<1	<1			<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/10/2024										<1.00
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2024						<1.00				
1,4-Naphthoquinone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
1,4-Naphthoquinone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
1,4-Naphthoquinone	7440-66-6	ug/L	4/4/2011										<10
1,4-Naphthoquinone	7440-66-6	ug/L	10/15/2014								<10		
1,4-Naphthoquinone	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
1,4-Naphthoquinone	7440-66-6	ug/L	4/4/2016										<10.3
1,4-Naphthoquinone	7440-66-6	ug/L	4/17/2017				<11						
1,4-Naphthoquinone	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
1,4-Naphthoquinone	7440-66-6	ug/L	10/20/2021										<8
1,4-Naphthoquinone	7440-66-6	ug/L	5/2/2022				<8						
1,4-Phenylenediamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
1,4-Phenylenediamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
1,4-Phenylenediamine	7440-66-6	ug/L	4/4/2011										<10
1,4-Phenylenediamine	7440-66-6	ug/L	10/15/2014								<10		
1,4-Phenylenediamine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
1,4-Phenylenediamine	7440-66-6	ug/L	4/4/2016										<10.3
1,4-Phenylenediamine	7440-66-6	ug/L	4/17/2017				<11						
1,4-Phenylenediamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
1,4-Phenylenediamine	7440-66-6	ug/L	10/20/2021										<8
1,4-Phenylenediamine	7440-66-6	ug/L	5/2/2022				<8						
1-Naphthylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
1-Naphthylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
1-Naphthylamine	7440-66-6	ug/L	4/4/2011										<10
1-Naphthylamine	7440-66-6	ug/L	10/15/2014								<10		
1-Naphthylamine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
1-Naphthylamine	7440-66-6	ug/L	4/4/2016										<10.3
1-Naphthylamine	7440-66-6	ug/L	4/17/2017				<11						
1-Naphthylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
1-Naphthylamine	7440-66-6	ug/L	10/20/2021										<8
1-Naphthylamine	7440-66-6	ug/L	5/2/2022				<8						
2,2-Dichloropropane	7440-66-6	ug/L	4/14/2009	<4	<4	<4	<4	<4	<4				
2,2-Dichloropropane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4			<4	
2,2-Dichloropropane	7440-66-6	ug/L	4/4/2011										<4
2,2-Dichloropropane	7440-66-6	ug/L	10/15/2014								<4		
2,2-Dichloropropane	7440-66-6	ug/L	10/5/2015	<4	<4	<4		<4	<4		<4	<4	
2,2-Dichloropropane	7440-66-6	ug/L	4/4/2016										<4
2,2-Dichloropropane	7440-66-6	ug/L	4/17/2017				<4						
2,2-Dichloropropane	7440-66-6	ug/L	3/30/2020	<4	<4	<4		<4	<4		<4	<4	
2,2-Dichloropropane	7440-66-6	ug/L	10/20/2021										<1
2,2-Dichloropropane	7440-66-6	ug/L	5/2/2022				<1						
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	4/4/2011										<10
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	10/15/2014								<10		
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	4/4/2016										<10.3

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	4/17/2017				<11						
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	10/20/2021										<8
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	5/2/2022				<8						
2,4,5-T [2C]	7440-66-6	ug/L	4/14/2009	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
2,4,5-T [2C]	7440-66-6	ug/L	5/10/2010	<0.5	<0.5	<0.51	<0.47	<0.5	<0.47			<0.47	
2,4,5-T [2C]	7440-66-6	ug/L	4/4/2011										<0.5
2,4,5-T [2C]	7440-66-6	ug/L	10/15/2014								<1.08		
2,4,5-T [2C]	7440-66-6	ug/L	10/5/2015	<1.03	<1.01	<1.03		<1.01	<1.06		<10.7	<1.01	
2,4,5-T [2C]	7440-66-6	ug/L	4/4/2016										<1.06
2,4,5-T [2C]	7440-66-6	ug/L	4/17/2017				<1.08						
2,4,5-T [2C]	7440-66-6	ug/L	3/30/2020	<1.04	<1.03	<1.04		<1.05	<1.04		<1.04	<1.03	
2,4,5-T [2C]	7440-66-6	ug/L	10/20/2021										0.08J
2,4,5-T [2C]	7440-66-6	ug/L	5/2/2022				<0.5						
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/14/2009	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2				
2,4,5-TP [Silvex]	7440-66-6	ug/L	5/10/2010	<0.5	<0.5	<0.51	<0.47	<0.5	<0.47			<0.47	
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/4/2011										<0.5
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/15/2014								<1.08		
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/5/2015	<1.03	<1.01	<1.03		<1.01	<1.06		<10.7	<1.01	
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/4/2016										<1.06
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/17/2017				<1.08						
2,4,5-TP [Silvex]	7440-66-6	ug/L	3/30/2020	<1.04	<1.03	<1.04		<1.05	<1.04		<1.04	<1.03	
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/20/2021										<0.5
2,4,5-TP [Silvex]	7440-66-6	ug/L	5/2/2022				0.09J						
2,4,5-Trichlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2,4,5-Trichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2,4,5-Trichlorophenol	7440-66-6	ug/L	4/4/2011										<10
2,4,5-Trichlorophenol	7440-66-6	ug/L	10/15/2014								<10		
2,4,5-Trichlorophenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2,4,5-Trichlorophenol	7440-66-6	ug/L	4/4/2016										<10.3
2,4,5-Trichlorophenol	7440-66-6	ug/L	4/17/2017				<11						
2,4,5-Trichlorophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2,4,5-Trichlorophenol	7440-66-6	ug/L	10/20/2021										<8
2,4,5-Trichlorophenol	7440-66-6	ug/L	5/2/2022				<8						
2,4,6-Trichlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2,4,6-Trichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2,4,6-Trichlorophenol	7440-66-6	ug/L	4/4/2011										<10
2,4,6-Trichlorophenol	7440-66-6	ug/L	10/15/2014								<10		
2,4,6-Trichlorophenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2,4,6-Trichlorophenol	7440-66-6	ug/L	4/4/2016										<10.3
2,4,6-Trichlorophenol	7440-66-6	ug/L	4/17/2017				<11						
2,4,6-Trichlorophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2,4,6-Trichlorophenol	7440-66-6	ug/L	10/20/2021										<8
2,4,6-Trichlorophenol	7440-66-6	ug/L	5/2/2022				<8						
2,4-D [2C]	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
2,4-D [2C]	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<0.93	<1	<0.93			<0.93	
2,4-D [2C]	7440-66-6	ug/L	4/4/2011										<1
2,4-D [2C]	7440-66-6	ug/L	10/15/2014								<1.08		
2,4-D [2C]	7440-66-6	ug/L	10/5/2015	<1.03	<1.01	<1.03		<1.01	<1.06		<10.7	<1.01	
2,4-D [2C]	7440-66-6	ug/L	4/4/2016										<1.06
2,4-D [2C]	7440-66-6	ug/L	4/17/2017				<1.08						
2,4-D [2C]	7440-66-6	ug/L	3/30/2020	<1.04	<1.03	<1.04		<1.05	<1.04		<1.04	<1.03	
2,4-D [2C]	7440-66-6	ug/L	10/20/2021										<2
2,4-D [2C]	7440-66-6	ug/L	5/2/2022				<2						
2,4-Dichlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2,4-Dichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2,4-Dichlorophenol	7440-66-6	ug/L	4/4/2011										<10
2,4-Dichlorophenol	7440-66-6	ug/L	10/15/2014								<10		
2,4-Dichlorophenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2,4-Dichlorophenol	7440-66-6	ug/L	4/4/2016										<10.3
2,4-Dichlorophenol	7440-66-6	ug/L	4/17/2017				<11						
2,4-Dichlorophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2,4-Dichlorophenol	7440-66-6	ug/L	10/20/2021										<8
2,4-Dichlorophenol	7440-66-6	ug/L	5/2/2022				<8						
2,4-Dimethylphenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2,4-Dimethylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2,4-Dimethylphenol	7440-66-6	ug/L	4/4/2011										<10
2,4-Dimethylphenol	7440-66-6	ug/L	10/15/2014								<10		
2,4-Dimethylphenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2,4-Dimethylphenol	7440-66-6	ug/L	4/4/2016										<10.3
2,4-Dimethylphenol	7440-66-6	ug/L	4/17/2017				<11						

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
2,4-Dimethylphenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2,4-Dimethylphenol	7440-66-6	ug/L	10/20/2021										<8
2,4-Dimethylphenol	7440-66-6	ug/L	5/2/2022				<8						
2,4-Dinitrophenol	7440-66-6	ug/L	4/14/2009	<20	<20	<20	<20	<40	<20				
2,4-Dinitrophenol	7440-66-6	ug/L	5/10/2010	<20	<20	<20	<20	<20	<20			<20	
2,4-Dinitrophenol	7440-66-6	ug/L	4/4/2011										<20
2,4-Dinitrophenol	7440-66-6	ug/L	10/15/2014								<20		
2,4-Dinitrophenol	7440-66-6	ug/L	10/5/2015	<20.6	<20	<20		<20.6	<21.5		<21.7	<20	
2,4-Dinitrophenol	7440-66-6	ug/L	4/4/2016										<20.6
2,4-Dinitrophenol	7440-66-6	ug/L	4/17/2017				<22						
2,4-Dinitrophenol	7440-66-6	ug/L	3/30/2020	<20.8	<20.8	<20.4		<20.4	<20.6		<20.8	<20.8	
2,4-Dinitrophenol	7440-66-6	ug/L	10/20/2021										<8
2,4-Dinitrophenol	7440-66-6	ug/L	5/2/2022				<8						
2,4-Dinitrotoluene	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2,4-Dinitrotoluene	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2,4-Dinitrotoluene	7440-66-5	ug/L	4/4/2011										<10
2,4-Dinitrotoluene	7440-66-5	ug/L	10/15/2014								<10		
2,4-Dinitrotoluene	7440-66-5	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2,4-Dinitrotoluene	7440-66-5	ug/L	4/4/2016										<10.3
2,4-Dinitrotoluene	7440-66-5	ug/L	4/17/2017				<11						
2,4-Dinitrotoluene	7440-66-5	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2,4-Dinitrotoluene	7440-66-5	ug/L	10/20/2021										<8
2,4-Dinitrotoluene	7440-66-5	ug/L	5/2/2022				<8						
2,6-Dichlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2,6-Dichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2,6-Dichlorophenol	7440-66-6	ug/L	4/4/2011										<10
2,6-Dichlorophenol	7440-66-6	ug/L	10/15/2014								<10		
2,6-Dichlorophenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2,6-Dichlorophenol	7440-66-6	ug/L	4/4/2016										<10.3
2,6-Dichlorophenol	7440-66-6	ug/L	4/17/2017				<11						
2,6-Dichlorophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2,6-Dichlorophenol	7440-66-6	ug/L	10/20/2021										<8
2,6-Dichlorophenol	7440-66-6	ug/L	5/2/2022				<8						
2,6-Dinitrotoluene	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2,6-Dinitrotoluene	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2,6-Dinitrotoluene	7440-66-5	ug/L	4/4/2011										<10
2,6-Dinitrotoluene	7440-66-5	ug/L	10/15/2014								<10		
2,6-Dinitrotoluene	7440-66-5	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2,6-Dinitrotoluene	7440-66-5	ug/L	4/4/2016										<10.3
2,6-Dinitrotoluene	7440-66-5	ug/L	4/17/2017				<11						
2,6-Dinitrotoluene	7440-66-5	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2,6-Dinitrotoluene	7440-66-5	ug/L	10/20/2021										<8
2,6-Dinitrotoluene	7440-66-5	ug/L	5/2/2022				<8						
2-Acetylaminofluorene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2-Acetylaminofluorene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2-Acetylaminofluorene	7440-66-6	ug/L	4/4/2011										<10
2-Acetylaminofluorene	7440-66-6	ug/L	10/15/2014								<10		
2-Acetylaminofluorene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2-Acetylaminofluorene	7440-66-6	ug/L	4/4/2016										<10.3
2-Acetylaminofluorene	7440-66-6	ug/L	4/17/2017				<11						
2-Acetylaminofluorene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2-Acetylaminofluorene	7440-66-6	ug/L	10/20/2021										<8
2-Acetylaminofluorene	7440-66-6	ug/L	5/2/2022				<8						
2-Butanone (MEK)	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	7/7/2009								<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	9/2/2009								<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10		<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	1/2/2010								<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	3/3/2010								<10	<10	<10
2-Butanone (MEK)	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	<10
2-Butanone (MEK)	7440-66-5	ug/L	7/8/2010									<10	<10
2-Butanone (MEK)	7440-66-5	ug/L	9/13/2010									<10	<10
2-Butanone (MEK)	7440-66-5	ug/L	11/1/2010	<10	<10	<10	<10	<10			<10	<10	
2-Butanone (MEK)	7440-66-6	ug/L	4/4/2011										<10
2-Butanone (MEK)	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10			<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	12/5/2011						<10				

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
2-Butanone (MEK)	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10		<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	6/25/2012						<10				
2-Butanone (MEK)	7440-66-6	ug/L	8/1/2012						<10	<10			
2-Butanone (MEK)	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	12/13/2012						<10	<10			
2-Butanone (MEK)	7440-66-6	ug/L	2/4/2013						<10	<10			
2-Butanone (MEK)	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/7/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/6/2015	<10	<10	<10		<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/5/2015	<10	<10	<10		<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/20/2018						<10				
2-Butanone (MEK)	7440-66-6	ug/L	4/24/2018				<10	<10			<10		
2-Butanone (MEK)	7440-66-6	ug/L	4/25/2018	<10	<10	<10				<10		<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Butanone (MEK)	7440-66-6	ug/L	10/20/2021						<5				<5
2-Butanone (MEK)	7440-66-6	ug/L	5/2/2022				<5		<10	<10			<10
2-Butanone (MEK)	7440-66-6	ug/L	10/14/2022						<10				<10
2-Butanone (MEK)	7440-66-6	ug/L	5/1/2023				<10		<10	<10		<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/16/2023						<10				<10
2-Butanone (MEK)	7440-66-6	ug/L	4/29/2024						<10	<10			<10
2-Butanone (MEK)	7440-66-6	ug/L	10/10/2024										<10.0
2-Butanone (MEK)	7440-66-6	ug/L	10/11/2024						<10.0				
2-Chloronaphthalene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2-Chloronaphthalene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2-Chloronaphthalene	7440-66-6	ug/L	4/4/2011										<10
2-Chloronaphthalene	7440-66-6	ug/L	10/15/2014								<10		
2-Chloronaphthalene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2-Chloronaphthalene	7440-66-6	ug/L	4/4/2016										<10.3
2-Chloronaphthalene	7440-66-6	ug/L	4/17/2017				<11						
2-Chloronaphthalene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2-Chloronaphthalene	7440-66-6	ug/L	10/20/2021										<8
2-Chloronaphthalene	7440-66-6	ug/L	5/2/2022				<8						
2-Chlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2-Chlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2-Chlorophenol	7440-66-6	ug/L	4/4/2011										<10
2-Chlorophenol	7440-66-6	ug/L	10/15/2014								<10		
2-Chlorophenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2-Chlorophenol	7440-66-6	ug/L	4/4/2016										<10.3
2-Chlorophenol	7440-66-6	ug/L	4/17/2017				<11						
2-Chlorophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2-Chlorophenol	7440-66-6	ug/L	10/20/2021										<8
2-Chlorophenol	7440-66-6	ug/L	5/2/2022				<8						
2-Hexanone	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	7/7/2009								<10	<10	
2-Hexanone	7440-66-6	ug/L	9/2/2009								<10	<10	
2-Hexanone	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10		<10	<10	
2-Hexanone	7440-66-6	ug/L	1/2/2010								<10	<10	
2-Hexanone	7440-66-6	ug/L	3/3/2010								<10	<10	
2-Hexanone	7440-66-6	ug/L	5/10/2010	<20	<20	<20	<20	<20	<20		<20	<20	<10
2-Hexanone	7440-66-6	ug/L	7/8/2010										<10
2-Hexanone	7440-66-6	ug/L	9/13/2010										<10
2-Hexanone	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10		<10	<10		
2-Hexanone	7440-66-6	ug/L	4/4/2011										<10
2-Hexanone	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10		<10	<10		<10
2-Hexanone	7440-66-6	ug/L	12/5/2011						<10				

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
2-Hexanone	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10		<10	<10	<10
2-Hexanone	7440-66-6	ug/L	6/25/2012						<10				
2-Hexanone	7440-66-6	ug/L	8/1/2012						<10	<10			
2-Hexanone	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	12/13/2012						<10	<10			
2-Hexanone	7440-66-6	ug/L	2/4/2013						<10	<10			
2-Hexanone	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/7/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/6/2015	<10	<10	<10		<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/5/2015	<10	<10	<10		<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/20/2018						<10				
2-Hexanone	7440-66-6	ug/L	4/24/2018				<10	<10			<10		
2-Hexanone	7440-66-6	ug/L	4/25/2018	<10	<10	<10				<10		<10	<10
2-Hexanone	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Hexanone	7440-66-6	ug/L	10/20/2021						<5				<5
2-Hexanone	7440-66-6	ug/L	5/2/2022				<5		<5	<5			<5
2-Hexanone	7440-66-6	ug/L	10/14/2022						<5				<5
2-Hexanone	7440-66-6	ug/L	5/1/2023				<10		<10	<10		<10	<10
2-Hexanone	7440-66-6	ug/L	10/16/2023						<10				<10
2-Hexanone	7440-66-6	ug/L	4/29/2024						<10	<10			<10
2-Hexanone	7440-66-6	ug/L	10/10/2024										<10.0
2-Hexanone	7440-66-6	ug/L	10/11/2024						<10.0				
2-Methylnaphthalene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2-Methylnaphthalene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2-Methylnaphthalene	7440-66-6	ug/L	4/4/2011										<10
2-Methylnaphthalene	7440-66-6	ug/L	10/15/2014								<10		
2-Methylnaphthalene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2-Methylnaphthalene	7440-66-6	ug/L	4/4/2016										<10.3
2-Methylnaphthalene	7440-66-6	ug/L	4/17/2017				<11						
2-Methylnaphthalene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2-Methylnaphthalene	7440-66-6	ug/L	10/20/2021										<8
2-Methylnaphthalene	7440-66-6	ug/L	5/2/2022				<8						
2-Methylphenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2-Methylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2-Methylphenol	7440-66-6	ug/L	4/4/2011										<10
2-Methylphenol	7440-66-6	ug/L	10/15/2014								<10		
2-Methylphenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2-Methylphenol	7440-66-6	ug/L	4/4/2016										<10.3
2-Methylphenol	7440-66-6	ug/L	4/17/2017				<11						
2-Methylphenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2-Methylphenol	7440-66-6	ug/L	10/20/2021										<8
2-Methylphenol	7440-66-6	ug/L	5/2/2022				<8						
2-Naphthylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2-Naphthylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2-Naphthylamine	7440-66-6	ug/L	4/4/2011										<10
2-Naphthylamine	7440-66-6	ug/L	10/15/2014								<10		
2-Naphthylamine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2-Naphthylamine	7440-66-6	ug/L	4/4/2016										<10.3
2-Naphthylamine	7440-66-6	ug/L	4/17/2017				<11						
2-Naphthylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2-Naphthylamine	7440-66-6	ug/L	10/20/2021										<8
2-Naphthylamine	7440-66-6	ug/L	5/2/2022				<8						
2-Nitroaniline	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2-Nitroaniline	7440-66-6	ug/L	4/4/2011										<10
2-Nitroaniline	7440-66-6	ug/L	10/15/2014								<10		
2-Nitroaniline	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2-Nitroaniline	7440-66-6	ug/L	4/4/2016										<10.3
2-Nitroaniline	7440-66-6	ug/L	4/17/2017				<11						
2-Nitroaniline	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
2-Nitroaniline	7440-66-6	ug/L	10/20/2021										<8
2-Nitroaniline	7440-66-6	ug/L	5/2/2022				<8						
2-Nitrophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
2-Nitrophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
2-Nitrophenol	7440-66-6	ug/L	4/4/2011										<10
2-Nitrophenol	7440-66-6	ug/L	10/15/2014								<10		
2-Nitrophenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
2-Nitrophenol	7440-66-6	ug/L	4/4/2016										<10.3
2-Nitrophenol	7440-66-6	ug/L	4/17/2017				<11						
2-Nitrophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
2-Nitrophenol	7440-66-6	ug/L	10/20/2021										<8
2-Nitrophenol	7440-66-6	ug/L	5/2/2022				<8						
3,3-Dichlorobenzidine	7440-66-6	ug/L	4/14/2009	<85	<85	<85	<85	<170	<85				
3,3-Dichlorobenzidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
3,3-Dichlorobenzidine	7440-66-6	ug/L	4/4/2011										<10
3,3-Dichlorobenzidine	7440-66-6	ug/L	10/15/2014								<50		
3,3-Dichlorobenzidine	7440-66-6	ug/L	10/5/2015	<51.5	<50	<50		<51.5	<53.8		<54.3	<50	
3,3-Dichlorobenzidine	7440-66-6	ug/L	4/4/2016										<51.5
3,3-Dichlorobenzidine	7440-66-6	ug/L	4/17/2017				<54.9						
3,3-Dichlorobenzidine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
3,3-Dichlorobenzidine	7440-66-6	ug/L	10/20/2021										<8
3,3-Dichlorobenzidine	7440-66-6	ug/L	5/2/2022				<8						
3,3-Dimethylbenzidine	7440-66-6	ug/L	4/14/2009	<20	<20	<20	<20	<40	<20				
3,3-Dimethylbenzidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
3,3-Dimethylbenzidine	7440-66-6	ug/L	4/4/2011										<10
3,3-Dimethylbenzidine	7440-66-6	ug/L	10/15/2014								<10		
3,3-Dimethylbenzidine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
3,3-Dimethylbenzidine	7440-66-6	ug/L	4/4/2016										<10.3
3,3-Dimethylbenzidine	7440-66-6	ug/L	4/17/2017				<11						
3,3-Dimethylbenzidine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
3,3-Dimethylbenzidine	7440-66-6	ug/L	10/20/2021										<8
3,3-Dimethylbenzidine	7440-66-6	ug/L	5/2/2022				<8						
3-Methylcholanthrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
3-Methylcholanthrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
3-Methylcholanthrene	7440-66-6	ug/L	4/4/2011										<10
3-Methylcholanthrene	7440-66-6	ug/L	10/15/2014								<10		
3-Methylcholanthrene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
3-Methylcholanthrene	7440-66-6	ug/L	4/4/2016										<10.3
3-Methylcholanthrene	7440-66-6	ug/L	4/17/2017				<11						
3-Methylcholanthrene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
3-Methylcholanthrene	7440-66-6	ug/L	10/20/2021										<8
3-Methylcholanthrene	7440-66-6	ug/L	5/2/2022				<8						
3-Nitroaniline	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
3-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
3-Nitroaniline	7440-66-6	ug/L	4/4/2011										<10
3-Nitroaniline	7440-66-6	ug/L	10/15/2014								<10		
3-Nitroaniline	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
3-Nitroaniline	7440-66-6	ug/L	4/4/2016										<10.3
3-Nitroaniline	7440-66-6	ug/L	4/17/2017				<11						
3-Nitroaniline	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
3-Nitroaniline	7440-66-6	ug/L	10/20/2021										<8
3-Nitroaniline	7440-66-6	ug/L	5/2/2022				<8						
4,4'-DDD	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
4,4'-DDD	7440-66-6	ug/L	7/7/2009		<0.032								
4,4'-DDD	7440-66-6	ug/L	9/2/2009			<0.032							
4,4'-DDD	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
4,4'-DDD	7440-66-6	ug/L	4/4/2011										<0.032
4,4'-DDD	7440-66-6	ug/L	10/15/2014								0.302		
4,4'-DDD	7440-66-6	ug/L	4/6/2015								0.0308J		
4,4'-DDD	7440-66-6	ug/L	6/10/2015								0.0337		
4,4'-DDD	7440-66-6	ug/L	8/10/2015								<0.032		
4,4'-DDD	7440-66-6	ug/L	9/14/2015								0.0263J		
4,4'-DDD	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	0.0218J		<0.0323	<0.0327		<0.0381	<0.032	
4,4'-DDD	7440-66-6	ug/L	4/4/2016								<0.032		0.00903J
4,4'-DDD	7440-66-6	ug/L	10/17/2016								<0.032		
4,4'-DDD	7440-66-6	ug/L	4/17/2017				<0.0337				<0.0327		
4,4'-DDD	7440-66-6	ug/L	10/11/2017								0.0032J		
4,4'-DDD	7440-66-6	ug/L	4/24/2018								<0.0333		
4,4'-DDD	7440-66-6	ug/L	10/16/2018								<0.0333		
4,4'-DDD	7440-66-6	ug/L	4/16/2019								<0.0327		
4,4'-DDD	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	0.0153J		<0.034	<0.033		<0.0337	<0.0337	

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
4,4'-DDD	7440-66-6	ug/L	10/20/2021										<0.05
4,4'-DDD	7440-66-6	ug/L	5/2/2022				<0.05						
4,4'-DDE	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
4,4'-DDE	7440-66-6	ug/L	7/7/2009		<0.032								
4,4'-DDE	7440-66-6	ug/L	9/2/2009			<0.032							
4,4'-DDE	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
4,4'-DDE	7440-66-6	ug/L	4/4/2011										<0.032
4,4'-DDE	7440-66-6	ug/L	10/15/2014								0.0135J		
4,4'-DDE	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	<0.032		<0.0323	<0.0327		<0.0381	<0.032	
4,4'-DDE	7440-66-6	ug/L	4/4/2016										<0.0333
4,4'-DDE	7440-66-6	ug/L	4/17/2017				<0.0337						
4,4'-DDE	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.0333		<0.034	<0.033		<0.0337	<0.0337	
4,4'-DDE	7440-66-6	ug/L	10/20/2021										<0.05
4,4'-DDE	7440-66-6	ug/L	5/2/2022				<0.05						
4,4'-DDT	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
4,4'-DDT	7440-66-6	ug/L	7/7/2009		<0.032	<0.032							
4,4'-DDT	7440-66-6	ug/L	9/2/2009			<0.032							
4,4'-DDT	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
4,4'-DDT	7440-66-6	ug/L	4/4/2011										<0.032
4,4'-DDT	7440-66-6	ug/L	10/15/2014										
4,4'-DDT	7440-66-6	ug/L	4/6/2015								0.0398		
4,4'-DDT	7440-66-6	ug/L	6/10/2015								<0.032		
4,4'-DDT	7440-66-6	ug/L	8/10/2015								<0.032		
4,4'-DDT	7440-66-6	ug/L	9/14/2015								<0.032		
4,4'-DDT	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	<0.032		<0.0323	<0.0327		<0.0381	<0.032	
4,4'-DDT	7440-66-6	ug/L	4/4/2016								0.00895J		<0.0333
4,4'-DDT	7440-66-6	ug/L	10/17/2016								<0.032		
4,4'-DDT	7440-66-6	ug/L	4/17/2017				<0.0337				<0.0327		
4,4'-DDT	7440-66-6	ug/L	10/11/2017								<0.0337		
4,4'-DDT	7440-66-6	ug/L	4/24/2018								0.00411J		
4,4'-DDT	7440-66-6	ug/L	10/16/2018								<0.0333		
4,4'-DDT	7440-66-6	ug/L	10/1/2019								<0.0348		
4,4'-DDT	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.0333		<0.034	<0.033		<0.0337	<0.0337	
4,4'-DDT	7440-66-6	ug/L	10/7/2020								<0.0356		
4,4'-DDT	7440-66-6	ug/L	4/13/2021								<0.05		
4,4'-DDT	7440-66-6	ug/L	10/20/2021										<0.05
4,4'-DDT	7440-66-6	ug/L	5/2/2022				<0.05				<0.05		
4,4'-DDT	7440-66-6	ug/L	5/1/2023								<0.0696		
4,4'-DDT	7440-66-6	ug/L	4/29/2024								<0.08		
4,6-Dinitro-2-methylphenol	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
4,6-Dinitro-2-methylphenol	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
4,6-Dinitro-2-methylphenol	7440-66-5	ug/L	4/4/2011										<10
4,6-Dinitro-2-methylphenol	7440-66-5	ug/L	10/15/2014								<10		
4,6-Dinitro-2-methylphenol	7440-66-5	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
4,6-Dinitro-2-methylphenol	7440-66-5	ug/L	4/4/2016										<10.3
4,6-Dinitro-2-methylphenol	7440-66-5	ug/L	4/17/2017				<11						
4,6-Dinitro-2-methylphenol	7440-66-5	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
4,6-Dinitro-2-methylphenol	7440-66-5	ug/L	10/20/2021										<8
4,6-Dinitro-2-methylphenol	7440-66-5	ug/L	5/2/2022				<8						
4-Aminobiphenyl	7440-66-6	ug/L	4/14/2009	<20	<20	<20	<20	<40	<20				
4-Aminobiphenyl	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
4-Aminobiphenyl	7440-66-6	ug/L	4/4/2011										<10
4-Aminobiphenyl	7440-66-6	ug/L	10/15/2014								<10		
4-Aminobiphenyl	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
4-Aminobiphenyl	7440-66-6	ug/L	4/4/2016										<10.3
4-Aminobiphenyl	7440-66-6	ug/L	4/17/2017				<11						
4-Aminobiphenyl	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
4-Aminobiphenyl	7440-66-6	ug/L	10/20/2021										<8
4-Aminobiphenyl	7440-66-6	ug/L	5/2/2022				<8						
4-Bromophenyl phenyl ether	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
4-Bromophenyl phenyl ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
4-Bromophenyl phenyl ether	7440-66-6	ug/L	4/4/2011										<10
4-Bromophenyl phenyl ether	7440-66-6	ug/L	10/15/2014								<10		
4-Bromophenyl phenyl ether	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
4-Bromophenyl phenyl ether	7440-66-6	ug/L	4/4/2016										<10.3
4-Bromophenyl phenyl ether	7440-66-6	ug/L	4/17/2017				<11						
4-Bromophenyl phenyl ether	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
4-Bromophenyl phenyl ether	7440-66-6	ug/L	10/20/2021										<8
4-Bromophenyl phenyl ether	7440-66-6	ug/L	5/2/2022				<8						
4-Chloro-3-methylphenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
4-Chloro-3-methylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
4-Chloro-3-methylphenol	7440-66-6	ug/L	4/4/2011										<10
4-Chloro-3-methylphenol	7440-66-6	ug/L	10/15/2014										
4-Chloro-3-methylphenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
4-Chloro-3-methylphenol	7440-66-6	ug/L	4/4/2016										<10.3
4-Chloro-3-methylphenol	7440-66-6	ug/L	4/17/2017				<11						
4-Chloro-3-methylphenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
4-Chloro-3-methylphenol	7440-66-6	ug/L	10/20/2021										<8
4-Chloro-3-methylphenol	7440-66-6	ug/L	5/2/2022				<8						
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	4/4/2011										<10
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	10/15/2014								<10		
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	4/4/2016										<10.3
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	4/17/2017				<11						
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	10/20/2021										<8
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	5/2/2022				<8						
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	7/7/2009								<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	9/2/2009								<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10		<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	1/2/2010								<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/3/2010								<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	7/8/2010									<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	9/13/2010										<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10			<10	<10	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/4/2011										<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10			<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	12/5/2011						<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10			<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	6/25/2012						<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	8/1/2012						<10	<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	12/13/2012						<10	<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	2/4/2013						<10	<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/7/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/20/2018						<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/24/2018				<10	<10			<10		
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/25/2018	<10	<10	<10				<10		<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/20/2021						<5				<5
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/2/2022				<5		<5	<5			<5
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/14/2022						<5				<5
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/1/2023				<10		<10	<10		<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/16/2023						<10				<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/29/2024						<10	<10			<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/10/2024										<10.0
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/11/2024						<10.0				
4-Nitroaniline	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
4-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	

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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
4-Nitroaniline	7440-66-6	ug/L	4/4/2011										<10
4-Nitroaniline	7440-66-6	ug/L	10/15/2014										
4-Nitroaniline	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
4-Nitroaniline	7440-66-6	ug/L	4/4/2016										<10.3
4-Nitroaniline	7440-66-6	ug/L	4/17/2017				<11						
4-Nitroaniline	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
4-Nitroaniline	7440-66-6	ug/L	10/20/2021										<8
4-Nitroaniline	7440-66-6	ug/L	5/2/2022				<8						
4-Nitrophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
4-Nitrophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
4-Nitrophenol	7440-66-6	ug/L	4/4/2011										<10
4-Nitrophenol	7440-66-6	ug/L	10/15/2014								<10		
4-Nitrophenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
4-Nitrophenol	7440-66-6	ug/L	4/4/2016										<10.3
4-Nitrophenol	7440-66-6	ug/L	4/17/2017				<11						
4-Nitrophenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
4-Nitrophenol	7440-66-6	ug/L	10/20/2021										<8
4-Nitrophenol	7440-66-6	ug/L	5/2/2022				<8						
5-Nitro-o-toluidine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
5-Nitro-o-toluidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
5-Nitro-o-toluidine	7440-66-6	ug/L	4/4/2011										<10
5-Nitro-o-toluidine	7440-66-6	ug/L	10/15/2014								<10		
5-Nitro-o-toluidine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
5-Nitro-o-toluidine	7440-66-6	ug/L	4/4/2016										<10.3
5-Nitro-o-toluidine	7440-66-6	ug/L	4/17/2017				<11						
5-Nitro-o-toluidine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
5-Nitro-o-toluidine	7440-66-6	ug/L	10/20/2021										<8
5-Nitro-o-toluidine	7440-66-6	ug/L	5/2/2022				<8						
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	4/4/2011										<10
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	10/15/2014								<10		
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	4/4/2016										<10.3
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	4/17/2017				<11						
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	10/20/2021										<8
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	5/2/2022				<8						
Acenaphthene	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Acenaphthene	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Acenaphthene	7440-66-5	ug/L	4/4/2011										<10
Acenaphthene	7440-66-5	ug/L	10/15/2014								<10		
Acenaphthene	7440-66-5	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Acenaphthene	7440-66-5	ug/L	4/4/2016										<10.3
Acenaphthene	7440-66-5	ug/L	4/17/2017				<11						
Acenaphthene	7440-66-5	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Acenaphthene	7440-66-5	ug/L	10/20/2021										<8
Acenaphthene	7440-66-5	ug/L	5/2/2022				<8						
Acenaphthylene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Acenaphthylene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Acenaphthylene	7440-66-6	ug/L	4/4/2011										<10
Acenaphthylene	7440-66-6	ug/L	10/15/2014								<10		
Acenaphthylene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Acenaphthylene	7440-66-6	ug/L	4/4/2016										<10.3
Acenaphthylene	7440-66-6	ug/L	4/17/2017				<11						
Acenaphthylene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Acenaphthylene	7440-66-6	ug/L	10/20/2021										<8
Acenaphthylene	7440-66-6	ug/L	5/2/2022				<8						
Acetone	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10				
Acetone	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10				
Acetone	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10				
Acetone	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10				
Acetone	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10				
Acetone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10				
Acetone	7440-66-5	ug/L	7/7/2009								<10	<10	
Acetone	7440-66-5	ug/L	9/2/2009								<10	<10	
Acetone	7440-66-5	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10		<10	<10	
Acetone	7440-66-6	ug/L	1/2/2010								<10	<10	
Acetone	7440-66-6	ug/L	3/3/2010								<10	<10	<10
Acetone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10		<10	<10	<10
Acetone	7440-66-6	ug/L	7/8/2010										<10

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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Acetone	7440-66-6	ug/L	9/13/2010										<10
Acetone	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10			<10	<10	
Acetone	7440-66-6	ug/L	4/4/2011										<10
Acetone	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10			<10	<10	<10
Acetone	7440-66-6	ug/L	12/5/2011						<10				
Acetone	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10		<10	<10	<10
Acetone	7440-66-6	ug/L	6/25/2012						<10				
Acetone	7440-66-6	ug/L	8/1/2012						<10	<10			
Acetone	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	12/13/2012						<10	<10			
Acetone	7440-66-6	ug/L	2/4/2013						<10	<10			
Acetone	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/7/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	4/6/2015	8.61J	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	2.35J	5.1J	1.87J	3.36J	<10; 2.54J	<10
Acetone	7440-66-6	ug/L	10/17/2016	2.3J	2.41J	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	4/17/2017	2.18J	<10	<10	<10	<10	<10	<10	<10	2.71J	3.02J
Acetone	7440-66-6	ug/L	10/11/2017	4.04J	2.31J; 4.81J	3.79J	4.53J	2.46J	2.17J	4.24J	2.82J	3.08J	5.74J
Acetone	7440-66-6	ug/L	4/20/2018						<10				
Acetone	7440-66-6	ug/L	4/24/2018				2.29J	2.35J			2.11J		
Acetone	7440-66-6	ug/L	4/25/2018	2.52J	<10	30.3				<10		3.18J	2.59J; 3.32J
Acetone	7440-66-6	ug/L	10/16/2018	3.16J	<10	3.15J	4J	<10	<10	<10	<10	<10	6.86J
Acetone	7440-66-6	ug/L	4/16/2019	<10	<10	4.31J	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/1/2019	3.32J	4.67J	4.41J	<10	3.22J	<10	<10	3.6J	<10	4.5J
Acetone	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	4/13/2021	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/20/2021						<10				<10
Acetone	7440-66-6	ug/L	5/2/2022				<10		<10	<10			<10
Acetone	7440-66-6	ug/L	10/14/2022						<10				<10
Acetone	7440-66-6	ug/L	5/1/2023				<10		<10	<10		<10	<10
Acetone	7440-66-6	ug/L	10/16/2023						<10				10.2
Acetone	7440-66-6	ug/L	4/29/2024						<10	<10			<10
Acetone	7440-66-6	ug/L	10/10/2024										<10.0
Acetone	7440-66-6	ug/L	10/11/2024						<10.0				
Acetonitrile	7440-66-5	mg/L	4/14/2009	<10	<10	<10	<10	<10	<10				
Acetonitrile	7440-66-5	mg/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Acetonitrile	7440-66-5	mg/L	4/4/2011										<10
Acetonitrile	7440-66-5	mg/L	10/15/2014								<10		
Acetonitrile	7440-66-5	mg/L	10/5/2015	<10	<10	<10		<10	<10		<10	<10	
Acetonitrile	7440-66-5	mg/L	4/4/2016										<10
Acetonitrile	7440-66-5	mg/L	4/17/2017				<10						
Acetonitrile	7440-66-5	mg/L	3/30/2020	<10	<10	<10		<10	<10		<10	<10	
Acetonitrile	7440-66-5	mg/L	10/20/2021										<0.01
Acetonitrile	7440-66-5	mg/L	5/2/2022				<0.01						
Acetophenone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Acetophenone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Acetophenone	7440-66-6	ug/L	4/4/2011										<10
Acetophenone	7440-66-6	ug/L	10/15/2014								<10		
Acetophenone	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Acetophenone	7440-66-6	ug/L	4/4/2016										<10.3
Acetophenone	7440-66-6	ug/L	4/17/2017				<11						
Acetophenone	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Acetophenone	7440-66-6	ug/L	10/20/2021										<8
Acetophenone	7440-66-6	ug/L	5/2/2022				<8						
Acrolein	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10				
Acrolein	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Acrolein	7440-66-6	ug/L	4/4/2011										<10
Acrolein	7440-66-6	ug/L	10/15/2014								<10		
Acrolein	7440-66-6	ug/L	10/5/2015	<10	<10	<10		<10	<10		<10	<10	
Acrolein	7440-66-6	ug/L	4/4/2016										<10
Acrolein	7440-66-6	ug/L	4/17/2017				<10						
Acrolein	7440-66-6	ug/L	3/30/2020	<10	<10	<10		<10	<10		<10	<10	
Acrolein	7440-66-6	ug/L	10/20/2021										<10
Acrolein	7440-66-6	ug/L	5/2/2022				<10						
Acrylonitrile	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10				
Acrylonitrile	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10				
Acrylonitrile	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10				

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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Acrylonitrile	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10				
Acrylonitrile	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10				
Acrylonitrile	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10				
Acrylonitrile	7440-66-6	ug/L	7/7/2009								<10	<10	
Acrylonitrile	7440-66-6	ug/L	9/2/2009								<10	<10	
Acrylonitrile	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10		<10	<10	
Acrylonitrile	7440-66-6	ug/L	1/2/2010								<10	<10	
Acrylonitrile	7440-66-6	ug/L	3/3/2010								<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10		<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	7/8/2010										<10
Acrylonitrile	7440-66-6	ug/L	9/13/2010										<10
Acrylonitrile	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10			<10	<10	
Acrylonitrile	7440-66-6	ug/L	4/4/2011										<10
Acrylonitrile	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10			<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	12/5/2011						<10				
Acrylonitrile	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10		<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	6/25/2012						<10				
Acrylonitrile	7440-66-6	ug/L	8/1/2012						<10	<10			
Acrylonitrile	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	12/13/2012						<10	<10			
Acrylonitrile	7440-66-6	ug/L	2/4/2013						<10	<10			
Acrylonitrile	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	10/7/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	4/20/2018						<5				
Acrylonitrile	7440-66-6	ug/L	4/24/2018				<5	<5			<5		
Acrylonitrile	7440-66-6	ug/L	4/25/2018	<5	<5	<5				<5		<5	<5
Acrylonitrile	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/20/2021						<5				<5
Acrylonitrile	7440-66-6	ug/L	5/2/2022				<5		<5	<5			<5
Acrylonitrile	7440-66-6	ug/L	10/14/2022						<5			<5	<5
Acrylonitrile	7440-66-6	ug/L	5/1/2023				<5		<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/16/2023						<5				<5
Acrylonitrile	7440-66-6	ug/L	4/29/2024						<5	<5			<5
Acrylonitrile	7440-66-6	ug/L	10/10/2024										<5.00
Acrylonitrile	7440-66-6	ug/L	10/11/2024						<5.00				
Aldrin	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Aldrin	7440-66-6	ug/L	7/7/2009		<0.032		<0.032						
Aldrin	7440-66-6	ug/L	9/2/2009			<0.032							
Aldrin	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Aldrin	7440-66-6	ug/L	4/4/2011										<0.032
Aldrin	7440-66-6	ug/L	10/15/2014								0.0114J		
Aldrin	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	<0.032		<0.0323	<0.0327		<0.0381	<0.032	
Aldrin	7440-66-6	ug/L	4/4/2016										<0.0333
Aldrin	7440-66-6	ug/L	4/17/2017				<0.0337						
Aldrin	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.00469		<0.00479	<0.033		<0.00474	<0.00474	
Aldrin	7440-66-6	ug/L	10/20/2021										<0.05
Aldrin	7440-66-6	ug/L	5/2/2022				<0.05						
Alkalinity, Phenol [CaCO3]	7440-66-6	mg/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Alkalinity, Phenol [CaCO3]	7440-66-6	mg/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	6/2/2014	330	480	675	516	480	330	134	826	335	521
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	10/15/2014	299	459	774	501	501	341	123	834	294	518
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	3/30/2020								484		
Allyl Chloride	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2	<2				
Allyl Chloride	7440-66-6	ug/L	5/10/2010	<2	<2	<2	<2	<2	<2			<2	
Allyl Chloride	7440-66-6	ug/L	4/4/2011										<5
Allyl Chloride	7440-66-6	ug/L	10/15/2014								<2		
Allyl Chloride	7440-66-6	ug/L	10/5/2015	<2	<2	<2		<2	<2		<2	<2	
Allyl Chloride	7440-66-6	ug/L	4/4/2016										<2

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Allyl Chloride	7440-66-6	ug/L	4/17/2017				<2						
Allyl Chloride	7440-66-6	ug/L	3/30/2020	<2	<2	<2		<2	<2		<2	<2	
Allyl Chloride	7440-66-6	ug/L	10/20/2021										<1
Allyl Chloride	7440-66-6	ug/L	5/2/2022				<1						
Alpha-BHC	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Alpha-BHC	7440-66-6	ug/L	7/7/2009		<0.032								
Alpha-BHC	7440-66-6	ug/L	9/2/2009			<0.032							
Alpha-BHC	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Alpha-BHC	7440-66-6	ug/L	4/4/2011										<0.032
Alpha-BHC	7440-66-6	ug/L	10/15/2014								<0.032		
Alpha-BHC	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	<0.032		<0.0323	<0.0327		<0.0381	<0.032	
Alpha-BHC	7440-66-6	ug/L	4/4/2016										<0.0333
Alpha-BHC	7440-66-6	ug/L	4/17/2017				<0.0337						
Alpha-BHC	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.0333		0.00354J	<0.033		<0.0337	<0.0337	
Alpha-BHC	7440-66-6	ug/L	10/20/2021										<0.05
Alpha-BHC	7440-66-6	ug/L	5/2/2022				<0.05						
Ammonia as N	7440-66-6	mg/L	4/6/2015	0.125J	0.919	3.75	<0.2	0.171J	<0.2	<0.2	1.39	<0.2	<0.2
Ammonia as N	7440-66-6	mg/L	10/5/2015	0.086J	1.07	5.22	<0.2	0.18J	<0.2	<0.2	0.197J	<0.2	<0.2
Ammonia as N	7440-66-6	mg/L	4/4/2016	<0.2	1.07	3.77	<0.2	0.178J	<0.2	<0.2	2.18	<0.2	<0.2
Ammonia as N	7440-66-6	mg/L	10/17/2016	0.347	1.06	4.35	0.112J	0.273	<0.2	<0.2	0.627	<0.2	<0.2
Anthracene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Anthracene	7440-66-6	ug/L	4/4/2011										<10
Anthracene	7440-66-6	ug/L	10/15/2014								<10		
Anthracene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Anthracene	7440-66-6	ug/L	4/4/2016										<10.3
Anthracene	7440-66-6	ug/L	4/17/2017				<11						
Anthracene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Anthracene	7440-66-6	ug/L	10/20/2021										<8
Anthracene	7440-66-6	ug/L	5/2/2022				<8						
Antimony	7440-66-6	mg/L	2/27/2008	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006				
Antimony	7440-66-6	mg/L	5/12/2008	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006				
Antimony	7440-66-6	mg/L	7/13/2008	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006				
Antimony	7440-66-6	mg/L	9/14/2008	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006				
Antimony	7440-66-6	mg/L	11/17/2008	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006				
Antimony	7440-66-6	mg/L	4/14/2009	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006				
Antimony	7440-66-6	mg/L	7/7/2009								<0.006	<0.006	
Antimony	7440-66-6	mg/L	9/2/2009								<0.006	<0.006	
Antimony	7440-66-6	mg/L	10/25/2009	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		<0.006	<0.006	
Antimony	7440-66-6	mg/L	1/2/2010								<0.006	<0.006	
Antimony	7440-66-6	mg/L	3/3/2010								<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	5/10/2010	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	7/8/2010										<0.006
Antimony	7440-66-6	mg/L	9/13/2010										<0.006
Antimony	7440-66-6	mg/L	11/1/2010	<0.006	<0.006	<0.012	<0.006	<0.006			<0.006	<0.006	
Antimony	7440-66-6	mg/L	4/4/2011	<0.006	<0.006	<0.006	<0.006	<0.006					<0.006
Antimony	7440-66-6	mg/L	10/13/2011	<0.006	<0.006	<0.006	<0.006	<0.006			<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	12/5/2011						<0.006				
Antimony	7440-66-6	mg/L	4/11/2012	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	6/25/2012						<0.006				
Antimony	7440-66-6	mg/L	8/1/2012						<0.006	<0.006			
Antimony	7440-66-6	mg/L	10/11/2012	<0.012	<0.006	<0.012	<0.006	<0.012	<0.006	<0.006	<0.006	<0.012	<0.012
Antimony	7440-66-6	mg/L	12/13/2012						<0.006	<0.006			
Antimony	7440-66-6	mg/L	3/30/2013	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	10/7/2013	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	6/2/2014	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	10/15/2014	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	4/6/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000163J	<0.001	<0.001	<0.001
Antimony	7440-66-6	mg/L	10/5/2015	0.00023J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000173J	<0.001
Antimony	7440-66-6	mg/L	4/4/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Antimony	7440-66-6	mg/L	10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Antimony	7440-66-6	mg/L	4/17/2017	0.000201J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Antimony	7440-66-6	mg/L	10/11/2017	0.000273J	<0.001	0.000221J	<0.001	<0.001	<0.001	<0.001	0.000239J	<0.001	0.00022J
Antimony	7440-66-6	mg/L	4/20/2018						<0.001				
Antimony	7440-66-6	mg/L	4/24/2018				<0.001	<0.001			<0.001		
Antimony	7440-66-6	mg/L	4/25/2018	<0.001	<0.004	<0.001				<0.001	<0.001	<0.001	<0.001
Antimony	7440-66-6	mg/L	10/16/2018	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Antimony	7440-66-6	mg/L	4/16/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Antimony	7440-66-6	mg/L	10/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Antimony	7440-66-6	mg/L	3/30/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Antimony	7440-66-6	mg/L	10/7/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Antimony	7440-66-6	mg/L	4/13/2021	<0.002	<0.002	<0.002	<0.002	<0.002	0.001J	<0.002	<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	10/20/2021						0.0005J; 0.0012J				<0.002
Antimony	7440-66-6	mg/L	5/2/2022				<0.002		0.0005J	0.0005J			<0.002
Antimony	7440-66-6	mg/L	10/14/2022						<0.002				<0.002
Antimony	7440-66-6	mg/L	5/1/2023						<0.002	<0.002			<0.002
Antimony	7440-66-6	mg/L	10/16/2023						<0.002				<0.002
Antimony	7440-66-6	mg/L	4/29/2024						<0.002	<0.002			<0.008
Antimony	7440-66-6	mg/L	10/10/2024										<0.00200
Antimony	7440-66-6	mg/L	10/11/2024						<0.00200				
Arsenic	7440-66-6	mg/L	2/27/2008	<0.001	0.005	0.03	0.012	0.002					0.012
Arsenic	7440-66-6	mg/L	5/12/2008	<0.001	0.012	0.041	0.01	0.002	<0.001				
Arsenic	7440-66-6	mg/L	7/13/2008	0.002	0.005	0.029	0.01	0.002	0.007				
Arsenic	7440-66-6	mg/L	9/14/2008	0.001	0.006	0.08	0.013	0.002	<0.001				
Arsenic	7440-66-6	mg/L	11/17/2008	0.00173	0.00236	0.0498	0.0127	0.00204	<0.001				
Arsenic	7440-66-6	mg/L	4/14/2009	0.0017	0.0067; 0.0068	0.036	0.0092	0.0025	<0.001				
Arsenic	7440-66-6	mg/L	7/7/2009	0.001	0.0044; 0.0038	0.021	0.0074	0.0024		0.003	0.0024		
Arsenic	7440-66-6	mg/L	9/2/2009	0.0029	0.007; 0.0077	0.033	0.01	0.0037		0.0027	0.0018		
Arsenic	7440-66-6	mg/L	10/25/2009	0.0018	0.0072	0.03	0.012	0.003	<0.001	0.0032	0.0024		
Arsenic	7440-66-6	mg/L	1/2/2010	0.0044	0.0051; 0.0048	0.025	0.01	0.0041; 0.0044		0.0055	0.0017		
Arsenic	7440-66-6	mg/L	3/3/2010							0.011	0.0022	0.0056	
Arsenic	7440-66-6	mg/L	5/10/2010	0.0013	0.004	0.025	0.011	0.0056	<0.001		0.0034	0.0065	
Arsenic	7440-66-6	mg/L	7/8/2010							0.011	0.0025	0.006	
Arsenic	7440-66-6	mg/L	9/13/2010							0.0067	0.0021	0.0019	
Arsenic	7440-66-6	mg/L	11/1/2010							0.0025	0.0012		
Arsenic	7440-66-6	mg/L	1/10/2011							0.00239	<0.001		
Arsenic	7440-66-6	mg/L	4/4/2011							0.0074	<0.001; 0.0019	<0.001	
Arsenic	7440-66-6	mg/L	7/8/2011									0.0013	
Arsenic	7440-66-6	mg/L	8/11/2011									0.0102	
Arsenic	7440-66-6	mg/L	10/13/2011	0.00151	0.00264	0.0361	0.0105	0.00674		0.00617	<0.001	0.00185	
Arsenic	7440-66-6	mg/L	12/5/2011						<0.001			<0.002	
Arsenic	7440-66-6	mg/L	4/11/2012	<0.001	0.00172	0.0195	0.00807	0.00451	<0.001		0.00222	<0.001	<0.001
Arsenic	7440-66-6	mg/L	6/25/2012						<0.001				
Arsenic	7440-66-6	mg/L	8/1/2012						<0.001	0.00229			
Arsenic	7440-66-6	mg/L	10/11/2012	<0.001	0.00175	0.14	0.00907	0.00777	<0.001	<0.001	0.00318	<0.001	0.0185
Arsenic	7440-66-6	mg/L	12/13/2012						<0.001	<0.001			
Arsenic	7440-66-6	mg/L	3/30/2013	0.00118	0.00163	0.0204	0.00507	0.00266	<0.001	<0.001	0.00137	<0.001	<0.001
Arsenic	7440-66-6	mg/L	10/7/2013	<0.001	0.00232	0.0121	0.00593	0.0024	<0.001	<0.001	0.00274	0.00103	<0.001
Arsenic	7440-66-6	mg/L	6/2/2014	0.000659J	0.00309	0.0224	0.00692	0.00273	0.00149	0.000446J	0.00228	<0.001	0.00115
Arsenic	7440-66-6	mg/L	10/15/2014	<0.001	0.00175	0.027	0.00851	0.00493	0.00115	<0.001	<0.001	<0.001	<0.001
Arsenic	7440-66-6	mg/L	4/6/2015	0.00115J	0.00241	0.0191	0.00613	0.0034	<0.002	0.00152J	<0.002	<0.002	<0.002
Arsenic	7440-66-6	mg/L	10/5/2015	0.00156J	0.00257	0.0223	0.00664	0.00439	0.00165J	<0.002	0.00127J	0.00249	<0.002
Arsenic	7440-66-6	mg/L	4/4/2016	0.000753J	0.002	0.0145	0.00528	0.00405	0.000891J	<0.002	0.00119J	<0.002	<0.002
Arsenic	7440-66-6	mg/L	10/17/2016	0.00244	0.00241	0.0176	0.00587	0.00455; 0.00542	0.00285	<0.002	0.00128J	0.00432	0.00281
Arsenic	7440-66-6	mg/L	4/17/2017	0.00108J	0.00712; 0.00314	0.0189	0.00156J	0.00266	<0.002	<0.002	0.00267	<0.002	<0.002
Arsenic	7440-66-6	mg/L	10/11/2017	0.00322	0.00272; 0.00255	0.0232	0.00123J	0.00324	0.00109J	<0.002	0.00373	0.000865J	0.000963J
Arsenic	7440-66-6	mg/L	4/20/2018						0.000968J				
Arsenic	7440-66-6	mg/L	4/24/2018				0.00181J	0.00134J			0.00647		
Arsenic	7440-66-6	mg/L	4/25/2018	0.00164J	0.00737J	0.0365				<0.002		0.00152J	0.000796J; 0.000802J
Arsenic	7440-66-6	mg/L	10/16/2018	0.00121	0.00285; 0.00331	0.0174	0.00145	0.00723	0.00377	0.00466	0.00917	0.00115	0.00223
Arsenic	7440-66-6	mg/L	4/16/2019	0.000766J	0.00856	0.0105	<0.002	0.00109J	<0.002	<0.002	0.0119	0.00248	0.00205
Arsenic	7440-66-6	mg/L	10/1/2019	0.00132J	0.00375	0.0185	0.00085J	0.00241	<0.002	<0.002	0.0151	0.00111J	0.00106J
Arsenic	7440-66-6	mg/L	3/30/2020	<0.002	0.00768	0.0149	<0.002	0.00183J	<0.002	<0.002	0.0149	0.00382	0.00351; 0.00273
Arsenic	7440-66-6	mg/L	10/7/2020	0.00125J	0.00349	0.0164	<0.002	0.00237	<0.002	<0.002	0.0178	0.00194J; 0.00142J	<0.002
Arsenic	7440-66-6	mg/L	4/13/2021	<0.004	0.0076	0.0121	<0.004	<0.004	<0.004	<0.004	0.0217	0.0202	0.004
Arsenic	7440-66-6	mg/L	10/20/2021						<0.004; 0.0026J				0.0019J
Arsenic	7440-66-6	mg/L	5/2/2022	0.0012J	0.0093	0.0139	0.0014J	0.002J	0.0023J	0.0015J	0.0032J	0.0149	0.0069
Arsenic	7440-66-6	mg/L	10/14/2022						0.0035J; 0.0028J				0.0031J
Arsenic	7440-66-6	mg/L	5/1/2023	0.000708J	0.00887	0.0196	0.000794J	0.00107J	<0.002	0.000731J		0.00439	0.0279
Arsenic	7440-66-6	mg/L	10/16/2023						0.000596J; 0.000622J				0.00702
Arsenic	7440-66-6	mg/L	4/29/2024	<0.002	0.00737	0.0704	0.000594J	0.00109J	<0.002	<0.002	0.00165J	0.00252; 0.00243	0.0169
Arsenic	7440-66-6	mg/L	10/10/2024										0.0225
Arsenic	7440-66-6	mg/L	10/11/2024						<0.00200				
Barium	7440-66-6	mg/L	2/27/2008	0.212	0.72	0.841	0.853	0.542	0.377				
Barium	7440-66-6	mg/L	5/12/2008	0.142	0.732	0.65	0.721	0.506	0.17				
Barium	7440-66-6	mg/L	7/13/2008	0.175	0.592	0.65	0.81	0.506	0.261				
Barium	7440-66-6	mg/L	9/14/2008	0.174	0.635	0.524	0.791	0.51	0.193				
Barium	7440-66-6	mg/L	11/17/2008	0.235	0.683	0.941	0.815	0.544	0.2				
Barium	7440-66-6	mg/L	4/14/2009	0.186	0.556	1.01	0.779	0.489	0.183				
Barium	7440-66-6	mg/L	7/7/2009	0.0824	0.47	0.34	0.757	0.465	0.169	0.53	0.235		
Barium	7440-66-6	mg/L	9/2/2009	0.169	0.593	0.741	0.736	0.476	0.21	0.61	0.237		
Barium	7440-66-6	mg/L	10/25/2009	0.146	0.6	0.736	0.804	0.491	0.198	0.633	0.259		

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Barium	7440-66-6	mg/L	1/2/2010	0.153	0.504	0.691	0.799	0.45	0.19		0.663	0.251	
Barium	7440-66-6	mg/L	3/3/2010								0.74	0.282	0.681
Barium	7440-66-6	mg/L	5/10/2010	0.13	0.472	1.44	0.802	0.403	0.235			0.308	0.68
Barium	7440-66-6	mg/L	7/8/2010								0.75	0.289	0.68
Barium	7440-66-6	mg/L	9/13/2010								0.733	0.292	0.574
Barium	7440-66-6	mg/L	11/1/2010	0.175	0.451	0.662	0.866	0.419			0.662	0.284	
Barium	7440-66-6	mg/L	1/10/2011								0.694	0.252	
Barium	7440-66-6	mg/L	4/4/2011			0.546					0.626	0.26	0.762
Barium	7440-66-6	mg/L	7/8/2011										0.478
Barium	7440-66-6	mg/L	8/11/2011										0.267
Barium	7440-66-6	mg/L	10/13/2011	0.198	0.48	0.716	0.835	0.423			0.808	0.288	0.364
Barium	7440-66-6	mg/L	12/5/2011						0.253				0.235
Barium	7440-66-6	mg/L	4/11/2012	0.116	0.47	0.627	0.758	0.368	0.402		0.755	0.281	0.229
Barium	7440-66-6	mg/L	6/25/2012						0.282				
Barium	7440-66-6	mg/L	8/1/2012						0.292	0.31			
Barium	7440-66-6	mg/L	10/11/2012	0.171	0.445	3.83	0.81	0.408	0.255	0.167	0.819	0.268	0.765
Barium	7440-66-6	mg/L	12/13/2012						0.256	0.149			
Barium	7440-66-6	mg/L	3/30/2013	0.206	0.47	0.735	0.653	0.368	0.28	0.165	0.631	0.268	0.432
Barium	7440-66-6	mg/L	10/7/2013	0.16	0.465	1.31	0.758	0.456	0.587	0.168	0.777	0.272	0.534
Barium	7440-66-6	mg/L	6/2/2014	0.166	0.436	0.658	0.643	0.357	0.555	0.14	0.598	0.187	0.368
Barium	7440-66-6	mg/L	10/15/2014	0.169; 0.175	0.468	0.739	0.69	0.429	0.447	0.159	0.751	0.28	0.332
Barium	7440-66-6	mg/L	4/6/2015	0.228	0.462	0.523		0.457	0.323	0.125	0.695	0.274	0.311
Barium	7440-66-6	mg/L	10/5/2015	0.223	0.462	0.568		0.501	0.545	0.145	0.695	0.391	0.33
Barium	7440-66-6	mg/L	4/4/2016	0.145	0.42	0.481	0.512	0.417	0.395	0.142	0.802	0.229; 0.236	0.319
Barium	7440-66-6	mg/L	10/17/2016	0.19	0.444	0.491	0.504	0.409; 0.417	0.315	0.151	0.758	0.391	0.339
Barium	7440-66-6	mg/L	4/17/2017	0.233	0.632; 0.439	0.583	0.323	0.475	0.345	0.168	0.288	0.359	0.371
Barium	7440-66-6	mg/L	10/11/2017	0.179	0.446; 0.445	0.671	0.317	0.462	0.563	0.156	0.818	0.271	0.391
Barium	7440-66-6	mg/L	4/20/2018						0.33				
Barium	7440-66-6	mg/L	4/24/2018				0.289	0.381			0.901		
Barium	7440-66-6	mg/L	4/25/2018	0.256	0.525	0.564				0.163		0.237	0.408; 0.467
Barium	7440-66-6	mg/L	10/16/2018	0.273	0.495; 0.488	0.513	0.327	0.338	0.367	0.247	0.881	0.245	0.499
Barium	7440-66-6	mg/L	4/16/2019	0.181	0.707	0.377	0.243	0.413	0.355	0.163	0.898	0.336	0.587
Barium	7440-66-6	mg/L	10/1/2019	0.218	0.539	0.622	0.326	0.516	0.411; 0.4	0.171	0.968	0.302	0.628
Barium	7440-66-6	mg/L	3/30/2020	0.157	0.697	0.376	0.279	0.351	0.372	0.177	0.868	0.434	0.645; 0.64
Barium	7440-66-6	mg/L	10/7/2020	0.18	0.488	0.506	0.335	0.498	0.433	0.19	0.442	0.322; 0.301	0.543
Barium	7440-66-6	mg/L	4/13/2021	0.119	0.558	0.353	0.322	0.379	0.423	0.185	0.53	0.665	0.738
Barium	7440-66-6	mg/L	10/20/2021						0.395; 0.83				0.69
Barium	7440-66-6	mg/L	5/2/2022	0.156	0.57	0.344	0.372	0.425	0.426	0.206	0.121	0.373	0.895
Barium	7440-66-6	mg/L	10/14/2022						0.489; 0.474				1.03
Barium	7440-66-6	mg/L	5/1/2023	0.173	0.682	0.281	0.365	0.361	0.462	0.17	0.071	0.225	0.884
Barium	7440-66-6	mg/L	10/16/2023						0.447; 0.451				0.587
Barium	7440-66-6	mg/L	4/29/2024	0.17	0.645	0.289	0.346	0.33	0.483	0.18	0.0557	0.115; 0.118	0.687
Barium	7440-66-6	mg/L	10/10/2024										0.714
Barium	7440-66-6	mg/L	10/11/2024						0.408				
Benzene	7440-66-6	ug/L	2/27/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Benzene	7440-66-6	ug/L	5/12/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Benzene	7440-66-6	ug/L	7/13/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Benzene	7440-66-6	ug/L	9/14/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Benzene	7440-66-6	ug/L	11/17/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Benzene	7440-66-6	ug/L	4/14/2009	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5				
Benzene	7440-66-6	ug/L	7/7/2009								<0.5	<0.5	
Benzene	7440-66-6	ug/L	9/2/2009								<0.5	<0.5	
Benzene	7440-66-6	ug/L	10/25/2009	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	
Benzene	7440-66-6	ug/L	1/2/2010								<0.5	<0.5	
Benzene	7440-66-6	ug/L	3/3/2010								<0.5	<0.5	<0.5
Benzene	7440-66-6	ug/L	5/10/2010	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5
Benzene	7440-66-6	ug/L	7/8/2010									<0.5	<0.5
Benzene	7440-66-6	ug/L	9/13/2010										<0.5
Benzene	7440-66-6	ug/L	11/1/2010	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	4/4/2011										<0.5
Benzene	7440-66-6	ug/L	10/13/2011	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5
Benzene	7440-66-6	ug/L	12/5/2011						<0.5				
Benzene	7440-66-6	ug/L	4/11/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5
Benzene	7440-66-6	ug/L	6/25/2012						<0.5				
Benzene	7440-66-6	ug/L	8/1/2012						<0.5	<0.5			
Benzene	7440-66-6	ug/L	10/11/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	7440-66-6	ug/L	12/13/2012						<0.5	<0.5			
Benzene	7440-66-6	ug/L	2/4/2013						<0.5	<0.5			
Benzene	7440-66-6	ug/L	3/30/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	7440-66-6	ug/L	10/7/2013	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	7440-66-6	ug/L	6/2/2014	<0.5	<0.5	0.194J	<0.5	<0.5	<0.5	<0.5	0.271J	<0.5	<0.5

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Benzene	7440-66-6	ug/L	10/15/2014	<0.5	<0.5	0.275J	<0.5	<0.5	<0.5	<0.5	0.329J	<0.5	<0.5
Benzene	7440-66-6	ug/L	4/6/2015	<0.5	<0.5	0.248J		<0.5	<0.5	<0.5	0.317J	<0.5	<0.5
Benzene	7440-66-6	ug/L	10/5/2015	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	7440-66-6	ug/L	4/4/2016	<0.5	<0.5	0.268J	<0.5	<0.5	<0.5	<0.5	0.265J	<0.5	<0.5
Benzene	7440-66-6	ug/L	10/17/2016	<0.5	<0.5	0.215J	<0.5	<0.5	<0.5	<0.5	0.371J	<0.5	<0.5
Benzene	7440-66-6	ug/L	4/17/2017	<0.5	<0.5	0.308J	<0.5	<0.5	<0.5	<0.5	0.143J	<0.5	<0.5
Benzene	7440-66-6	ug/L	10/11/2017	<0.5	<0.5	0.425J	<0.5	<0.5	<0.5	<0.5	0.436J	<0.5	<0.5
Benzene	7440-66-6	ug/L	4/20/2018						<0.5				
Benzene	7440-66-6	ug/L	4/24/2018				<0.5	<0.5			0.401J		
Benzene	7440-66-6	ug/L	4/25/2018	<0.5	<0.5	0.244J				<0.5		<0.5	<0.5
Benzene	7440-66-6	ug/L	10/16/2018	<0.5	<0.5	0.24J	<0.5	<0.5	<0.5	<0.5	0.407J	<0.5	<0.5
Benzene	7440-66-6	ug/L	4/16/2019	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.379J	<0.5	<0.5
Benzene	7440-66-6	ug/L	10/1/2019	<0.5	<0.5	0.225J	<0.5	<0.5	<0.5	<0.5	0.477J	<0.5	<0.5
Benzene	7440-66-6	ug/L	3/30/2020	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.338J	<0.5	<0.5
Benzene	7440-66-6	ug/L	10/7/2020	<0.5	<0.5	0.255J	<0.5	<0.5	<0.5	<0.5	0.439J	<0.5	<0.5
Benzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	0.3J	<1	<1
Benzene	7440-66-6	ug/L	10/20/2021						<1				<1
Benzene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Benzene	7440-66-6	ug/L	10/14/2022					<1					<1
Benzene	7440-66-6	ug/L	5/1/2023				<0.5		<0.5	0.373J		<0.5	<0.5
Benzene	7440-66-6	ug/L	10/16/2023						<0.5				<0.5
Benzene	7440-66-6	ug/L	4/29/2024						<0.5	<0.5			<0.5
Benzene	7440-66-6	ug/L	10/10/2024										<0.500
Benzene	7440-66-6	ug/L	10/11/2024						<0.500				
Benzo [k] fluoranthene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Benzo [k] fluoranthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Benzo [k] fluoranthene	7440-66-6	ug/L	4/4/2011										<10
Benzo [k] fluoranthene	7440-66-6	ug/L	10/15/2014								<10		
Benzo [k] fluoranthene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Benzo [k] fluoranthene	7440-66-6	ug/L	4/4/2016										<10.3
Benzo [k] fluoranthene	7440-66-6	ug/L	4/17/2017				<11						
Benzo [k] fluoranthene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Benzo [k] fluoranthene	7440-66-6	ug/L	10/20/2021										<8
Benzo [k] fluoranthene	7440-66-6	ug/L	5/2/2022				<8						
Benzo[a]anthracene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Benzo[a]anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Benzo[a]anthracene	7440-66-6	ug/L	4/4/2011										<10
Benzo[a]anthracene	7440-66-6	ug/L	10/15/2014								<10		
Benzo[a]anthracene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Benzo[a]anthracene	7440-66-6	ug/L	4/4/2016										<10.3
Benzo[a]anthracene	7440-66-6	ug/L	4/17/2017				<11						
Benzo[a]anthracene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Benzo[a]anthracene	7440-66-6	ug/L	10/20/2021										<8
Benzo[a]anthracene	7440-66-6	ug/L	5/2/2022				<8						
Benzo[a]pyrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Benzo[a]pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Benzo[a]pyrene	7440-66-6	ug/L	4/4/2011										<10
Benzo[a]pyrene	7440-66-6	ug/L	10/15/2014								<10		
Benzo[a]pyrene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Benzo[a]pyrene	7440-66-6	ug/L	4/4/2016										<10.3
Benzo[a]pyrene	7440-66-6	ug/L	4/17/2017				<11						
Benzo[a]pyrene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Benzo[a]pyrene	7440-66-6	ug/L	10/20/2021										<8
Benzo[a]pyrene	7440-66-6	ug/L	5/2/2022				<8						
Benzo[b]fluoranthene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Benzo[b]fluoranthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Benzo[b]fluoranthene	7440-66-6	ug/L	4/4/2011										<10
Benzo[b]fluoranthene	7440-66-6	ug/L	10/15/2014								<10		
Benzo[b]fluoranthene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Benzo[b]fluoranthene	7440-66-6	ug/L	4/4/2016										<10.3
Benzo[b]fluoranthene	7440-66-6	ug/L	4/17/2017				<11						
Benzo[b]fluoranthene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Benzo[b]fluoranthene	7440-66-6	ug/L	10/20/2021										<8
Benzo[b]fluoranthene	7440-66-6	ug/L	5/2/2022				<8						
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/4/2011										<10
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/15/2014								<10		
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/4/2016										<10.3
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/17/2017				<11						
Benzo[g,h,i]perylene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/20/2021										<8
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/2/2022				<8						
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/4/2011										<10
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/15/2014								<10		
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/4/2016										<10.3
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/17/2017				<11						
Benzo[g,h,i]perylene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/20/2021										<8
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/2/2022				<8						
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/4/2011										<10
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/15/2014								<10		
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/4/2016										<10.3
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/17/2017				<11						
Benzo[g,h,i]perylene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/20/2021										<8
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/2/2022				<8						
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/4/2011										<10
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/15/2014								<10		
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/4/2016										<10.3
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/17/2017				<11						

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Benzo[g,h,i]perylene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/20/2021										<8
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/2/2022				<8						
Benzyl alcohol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Benzyl alcohol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Benzyl alcohol	7440-66-6	ug/L	4/4/2011										<10
Benzyl alcohol	7440-66-6	ug/L	10/15/2014								<10		
Benzyl alcohol	7440-66-6	ug/L	10/5/2015	0.188J	<10	<10		<10.3	<10.8		<10.9	<10	
Benzyl alcohol	7440-66-6	ug/L	4/4/2016										<10.3
Benzyl alcohol	7440-66-6	ug/L	4/17/2017				<11						
Benzyl alcohol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Benzyl alcohol	7440-66-6	ug/L	10/20/2021										<8
Benzyl alcohol	7440-66-6	ug/L	5/2/2022				<8						
Beryllium	7440-66-6	mg/L	2/27/2008	<0.001	<0.001	<0.001	<0.001	<0.001	0.00129				
Beryllium	7440-66-6	mg/L	5/12/2008	<0.001	0.00134	<0.001	<0.001	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	7/13/2008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	9/14/2008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	11/17/2008	<0.001	0.00123	<0.001	<0.001	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	4/14/2009	<0.001	<0.001	0.00143	<0.001	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	7/7/2009			<0.001					<0.001	<0.001	
Beryllium	7440-66-6	mg/L	9/2/2009			<0.001					<0.001	<0.001	
Beryllium	7440-66-6	mg/L	10/25/2009	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	
Beryllium	7440-66-6	mg/L	1/2/2010			<0.001					<0.001	<0.001	
Beryllium	7440-66-6	mg/L	3/3/2010								<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	5/10/2010	<0.0004	<0.0004	0.0021	<0.0004	<0.0004	<0.0004			<0.0004	<0.0004
Beryllium	7440-66-6	mg/L	7/8/2010										<0.001
Beryllium	7440-66-6	mg/L	9/13/2010										<0.001
Beryllium	7440-66-6	mg/L	11/1/2010	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	<0.001	
Beryllium	7440-66-6	mg/L	4/4/2011										<0.001
Beryllium	7440-66-6	mg/L	10/13/2011	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	12/5/2011						<0.001				
Beryllium	7440-66-6	mg/L	4/11/2012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	6/25/2012						<0.001				
Beryllium	7440-66-6	mg/L	8/1/2012						<0.001	<0.001			
Beryllium	7440-66-6	mg/L	10/11/2012	<0.001	<0.001	0.00127	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00241
Beryllium	7440-66-6	mg/L	12/13/2012						<0.001	<0.001			
Beryllium	7440-66-6	mg/L	3/30/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/7/2013	<0.001	<0.001	0.00237	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00101
Beryllium	7440-66-6	mg/L	6/2/2014	<0.001	<0.001	<0.001	<0.001	<0.001	0.000474J	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/15/2014	<0.001	<0.001	<0.001	<0.001	<0.001	0.000344J	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/6/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/5/2015	0.000068J	<0.001	0.000085J	<0.001	<0.001	0.000667J	<0.001	<0.001	0.00022J	<0.001
Beryllium	7440-66-6	mg/L	4/4/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/17/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/11/2017	<0.001	<0.001	0.000126J	<0.001	<0.001	0.000539J	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/20/2018						<0.001				
Beryllium	7440-66-6	mg/L	4/24/2018				<0.001	<0.001			<0.001		
Beryllium	7440-66-6	mg/L	4/25/2018	<0.001	<0.004	<0.001				<0.001		<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/16/2018	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000639	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/16/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	3/30/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/7/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/13/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Beryllium	7440-66-6	mg/L	10/20/2021						<0.004				<0.004
Beryllium	7440-66-6	mg/L	5/2/2022				<0.004		<0.004	<0.004			<0.004
Beryllium	7440-66-6	mg/L	10/14/2022						0.0001J; <0.004				<0.004
Beryllium	7440-66-6	mg/L	5/1/2023						<0.001	<0.001			<0.001
Beryllium	7440-66-6	mg/L	10/16/2023						<0.001				<0.001
Beryllium	7440-66-6	mg/L	4/29/2024						<0.001	<0.001			<0.001
Beryllium	7440-66-6	mg/L	10/10/2024										<0.00100
Beryllium	7440-66-6	mg/L	10/11/2024						<0.00100				
Beta-BHC	7440-66-5	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Beta-BHC	7440-66-5	ug/L	7/7/2009		<0.032	<0.032							
Beta-BHC	7440-66-5	ug/L	9/2/2009			<0.032							
Beta-BHC	7440-66-5	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Beta-BHC	7440-66-5	ug/L	4/4/2011										<0.032
Beta-BHC	7440-66-5	ug/L	3/30/2013							<0.032			
Beta-BHC	7440-66-5	ug/L	10/15/2014								0.00605J		
Beta-BHC	7440-66-5	ug/L	10/5/2015	<0.033	<0.032	<0.032		<0.0323	<0.0327		0.00655J	<0.032	

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Beta-BHC	7440-66-6	ug/L	4/4/2016										<0.0333
Beta-BHC	7440-66-6	ug/L	4/17/2017				0.00627J						
Beta-BHC	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.0333		<0.034	<0.033		<0.0337	<0.0337	
Beta-BHC	7440-66-6	ug/L	10/20/2021										<0.05
Beta-BHC	7440-66-6	ug/L	5/2/2022				<0.05						
Bicarbonate	7440-66-6	mg/L	6/2/2014	330	480	675	516	480	330	134	826	335	521
Bicarbonate	7440-66-6	mg/L	10/15/2014	299	459	774	501	501	341	123	834	294	518
Bicarbonate	7440-66-6	mg/L	3/30/2020								484		
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	4/4/2011										<10
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	10/15/2014								<10		
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	4/4/2016										<10.3
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	4/17/2017				<11						
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	10/20/2021										<8
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	5/2/2022				<8						
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	4/4/2011										<10
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	10/15/2014								<10		
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	4/4/2016										<10.3
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	4/17/2017				<11						
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	10/20/2021										<8
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	5/2/2022				<8						
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/4/2011										<10
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/15/2014								<10		
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/4/2016										<10.3
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/17/2017				<11						
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/20/2021										<8
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/2/2022				<8						
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/4/2011										<10
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/15/2014								<10		
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/4/2016										<10.3
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/17/2017				<11						
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/20/2021										<8
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/2/2022				<8						
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	4/4/2011										<10
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	10/15/2014								<10		
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	10/5/2015	3.96J	0.681J	0.689J		2.02J	16.5		9.15J	6.86J	0.837J
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	4/4/2016						<10.3				
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	10/11/2016						1.11J				
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	10/17/2016						1.14J				
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	11/14/2016						1.11J				
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	4/17/2017				0.856J		1.11J				
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	10/11/2017						<10.8				
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	4/20/2018						<10.2				
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	10/16/2018						<10.2				
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	4/16/2019						<10.2				
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	10/20/2021										<6
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	5/2/2022				13						
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	5/1/2023				<9.26						
Bis[2-ethylhexyl]phthalate	7440-66-5	ug/L	4/29/2024				<10						
Bromochloromethane	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	7/7/2009								<5	<5	
Bromochloromethane	7440-66-6	ug/L	9/2/2009								<5	<5	
Bromochloromethane	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<5	<5		<5	<5	
Bromochloromethane	7440-66-6	ug/L	1/2/2010								<5	<5	
Bromochloromethane	7440-66-6	ug/L	3/3/2010								<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5		<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	7/8/2010									<5	<5
Bromochloromethane	7440-66-6	ug/L	9/13/2010										<5

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Bromochloromethane	7440-66-6	ug/L	11/1/2010	<5	<5	<5	<5	<5			<5	<5	
Bromochloromethane	7440-66-6	ug/L	4/4/2011										<5
Bromochloromethane	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5			<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	12/5/2011						<5				
Bromochloromethane	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5		<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	6/25/2012						<5				
Bromochloromethane	7440-66-6	ug/L	8/1/2012						<5	<5			
Bromochloromethane	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	12/13/2012						<5	<5			
Bromochloromethane	7440-66-6	ug/L	2/4/2013						<5	<5			
Bromochloromethane	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/7/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/6/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/17/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/20/2018						<5				
Bromochloromethane	7440-66-6	ug/L	4/24/2018				<5	<5			<5		
Bromochloromethane	7440-66-6	ug/L	4/25/2018	<5	<5	<5				<5		<5	<5
Bromochloromethane	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	7440-66-6	ug/L	10/20/2021						<1			<1	<1
Bromochloromethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1		<1	<1
Bromochloromethane	7440-66-6	ug/L	10/14/2022						<1				<1
Bromochloromethane	7440-66-6	ug/L	5/1/2023				<5		<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/16/2023						<5				<5
Bromochloromethane	7440-66-6	ug/L	4/29/2024						<5	<5			<5
Bromochloromethane	7440-66-6	ug/L	10/10/2024										<5.00
Bromochloromethane	7440-66-6	ug/L	10/11/2024						<5.00				<5.00
Bromodichloromethane	7440-66-5	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-5	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-5	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-5	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-5	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-5	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-5	ug/L	7/7/2009								<1	<1	
Bromodichloromethane	7440-66-5	ug/L	9/2/2009								<1	<1	
Bromodichloromethane	7440-66-5	ug/L	10/25/2009	<2	<2	<2	<2	<1	<2		<2	<2	
Bromodichloromethane	7440-66-5	ug/L	1/2/2010								<10	<10	
Bromodichloromethane	7440-66-5	ug/L	3/3/2010								<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4			<4	<4
Bromodichloromethane	7440-66-5	ug/L	7/8/2010										<1
Bromodichloromethane	7440-66-5	ug/L	9/13/2010										<1
Bromodichloromethane	7440-66-5	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
Bromodichloromethane	7440-66-5	ug/L	4/4/2011										<1
Bromodichloromethane	7440-66-5	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	12/5/2011						<1				
Bromodichloromethane	7440-66-5	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	6/25/2012						<1				
Bromodichloromethane	7440-66-5	ug/L	8/1/2012						<1	<1			
Bromodichloromethane	7440-66-5	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	12/13/2012						<1	<1			
Bromodichloromethane	7440-66-5	ug/L	2/4/2013						<1	<1			
Bromodichloromethane	7440-66-5	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-5	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Bromodichloromethane	7440-66-6	ug/L	4/20/2018						<1				
Bromodichloromethane	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
Bromodichloromethane	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/20/2021						<1				<1
Bromodichloromethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Bromodichloromethane	7440-66-6	ug/L	10/14/2022						<1				<1
Bromodichloromethane	7440-66-6	ug/L	5/1/2023				<1		<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/16/2023						<1				<1
Bromodichloromethane	7440-66-6	ug/L	4/29/2024						<1	<1			<1
Bromodichloromethane	7440-66-6	ug/L	10/10/2024										<1.00
Bromodichloromethane	7440-66-6	ug/L	10/11/2024						<1.00				
Bromoform	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	7/7/2009								<5	<5	
Bromoform	7440-66-6	ug/L	9/2/2009								<5	<5	
Bromoform	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<20	<10		<10	<10	
Bromoform	7440-66-6	ug/L	1/2/2010								<50	<50	
Bromoform	7440-66-6	ug/L	3/3/2010								<5	<5	<5
Bromoform	7440-66-6	ug/L	5/10/2010	<20	<20	<20	<20	<20	<20		<20	<20	<20
Bromoform	7440-66-6	ug/L	7/8/2010										<5
Bromoform	7440-66-6	ug/L	9/13/2010										<5
Bromoform	7440-66-6	ug/L	11/1/2010	<10	<5	<5	<10	<10			<5	<10	
Bromoform	7440-66-6	ug/L	4/4/2011										<5
Bromoform	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5			<5	<5	<5
Bromoform	7440-66-6	ug/L	12/5/2011						<5				
Bromoform	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5		<5	<5	<5
Bromoform	7440-66-6	ug/L	6/25/2012						<5				
Bromoform	7440-66-6	ug/L	8/1/2012						<5	<5			
Bromoform	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	12/13/2012						<5	<5			
Bromoform	7440-66-6	ug/L	2/4/2013						<5	<5			
Bromoform	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/7/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/6/2015	<5	<5	<5		<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/5/2015	<5	<5	<5		<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/17/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/20/2018						<5				
Bromoform	7440-66-6	ug/L	4/24/2018				<5	<5			<5		
Bromoform	7440-66-6	ug/L	4/25/2018	<5	<5	<5	<5	<5		<5		<5	<5
Bromoform	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/16/2019						<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	7440-66-6	ug/L	10/20/2021						<1				<1
Bromoform	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Bromoform	7440-66-6	ug/L	10/14/2022						<1				<1
Bromoform	7440-66-6	ug/L	5/1/2023				<5		<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/16/2023						<5				<5
Bromoform	7440-66-6	ug/L	4/29/2024						<5	<5			<5
Bromoform	7440-66-6	ug/L	10/10/2024										<5.00
Bromoform	7440-66-6	ug/L	10/11/2024						<5.00				
Bromomethane	7440-66-6	ug/L	2/27/2008	<4	<4	<4	<4	<4	<4				
Bromomethane	7440-66-6	ug/L	5/12/2008	<4	<4	<4	<4	<4	<4				
Bromomethane	7440-66-6	ug/L	7/13/2008	<4	<4	<4	<4	<4	<4				

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Bromomethane	7440-66-6	ug/L	9/14/2008	<4	<4	<4	<4	<4	<4				
Bromomethane	7440-66-6	ug/L	11/17/2008	<4	<4	<4	<4	<4	<4				
Bromomethane	7440-66-6	ug/L	4/14/2009	<4	<4	<4	<4	<4	<4				
Bromomethane	7440-66-6	ug/L	7/7/2009								<4	<4	
Bromomethane	7440-66-6	ug/L	9/2/2009								<4	<4	
Bromomethane	7440-66-6	ug/L	10/25/2009	<4	<4	<4	<4	<4	<4		<4	<4	
Bromomethane	7440-66-6	ug/L	1/2/2010								<4	<4	
Bromomethane	7440-66-6	ug/L	3/3/2010								<4	<4	<4
Bromomethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4		<4	<4	<4
Bromomethane	7440-66-6	ug/L	7/8/2010										<4
Bromomethane	7440-66-6	ug/L	9/13/2010										<4
Bromomethane	7440-66-6	ug/L	11/1/2010	<4	<4	<4	<4	<4			<4	<4	
Bromomethane	7440-66-6	ug/L	4/4/2011										<4
Bromomethane	7440-66-6	ug/L	10/13/2011	<4	<4	<4	<4	<4			<4	<4	<4
Bromomethane	7440-66-6	ug/L	12/5/2011						<20				
Bromomethane	7440-66-6	ug/L	4/1/2012	<4	<4	<4	<4	<4	<4		<4	<4	<4
Bromomethane	7440-66-6	ug/L	6/25/2012						<4				
Bromomethane	7440-66-6	ug/L	8/1/2012						<4	<4			
Bromomethane	7440-66-6	ug/L	10/11/2012	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	12/13/2012						<4	<4			
Bromomethane	7440-66-6	ug/L	2/4/2013						<4	<4			
Bromomethane	7440-66-6	ug/L	3/30/2013	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/7/2013	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	6/2/2014	<4	<4	<4	<4	<4	<4	<4	3.46J	<4	<4
Bromomethane	7440-66-6	ug/L	10/15/2014	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	4/6/2015	<4	<4	<4		<4		0.415J	<4	<4	0.529J
Bromomethane	7440-66-6	ug/L	10/5/2015	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	4/4/2016	0.254J	0.308J	<4	0.27J	<4	<4	0.297J	<4	0.403J, 0.346J	<4
Bromomethane	7440-66-6	ug/L	10/17/2016	<4	<4	<4	0.374J	<4	<4	<4	0.374J	0.39J	<4
Bromomethane	7440-66-6	ug/L	4/17/2017	0.447J	0.41J, <4	0.474J	0.32J	0.314J	0.248J	0.239J	0.511J	<4	0.326J
Bromomethane	7440-66-6	ug/L	10/11/2017	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	4/20/2018						<4				
Bromomethane	7440-66-6	ug/L	4/24/2018				<4	<4			<4		
Bromomethane	7440-66-6	ug/L	4/25/2018	<4	<4	<4			<4	<4		<4	<4
Bromomethane	7440-66-6	ug/L	10/16/2018	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	4/16/2019	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/1/2019	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	3/30/2020	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/7/2020	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	7440-66-6	ug/L	10/20/2021						<1				<1
Bromomethane	7440-66-6	ug/L	5/2/2022				0.6J		<1	<1			<1
Bromomethane	7440-66-6	ug/L	10/14/2022						<1				<1
Bromomethane	7440-66-6	ug/L	5/1/2023				<4		<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/16/2023						<4				<4
Bromomethane	7440-66-6	ug/L	4/29/2024						<4	<4			<4
Bromomethane	7440-66-6	ug/L	10/10/2024										<4.00
Bromomethane	7440-66-6	ug/L	10/11/2024						<4.00				
Butyl benzyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Butyl benzyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Butyl benzyl phthalate	7440-66-6	ug/L	4/4/2011										<10
Butyl benzyl phthalate	7440-66-6	ug/L	10/15/2014								<10		
Butyl benzyl phthalate	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Butyl benzyl phthalate	7440-66-6	ug/L	4/4/2016										<10.3
Butyl benzyl phthalate	7440-66-6	ug/L	4/17/2017				0.469J						
Butyl benzyl phthalate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Butyl benzyl phthalate	7440-66-6	ug/L	10/20/2021										<8
Butyl benzyl phthalate	7440-66-6	ug/L	5/2/2022				<8						
Cadmium	7440-66-6	mg/L	2/27/2008	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	5/12/2008	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	7/13/2008	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	9/14/2008	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	11/17/2008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
Cadmium	7440-66-6	mg/L	4/14/2009	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	7/7/2009								<0.0025	<0.0025	
Cadmium	7440-66-6	mg/L	9/2/2009								<0.0025	<0.0025	
Cadmium	7440-66-6	mg/L	10/25/2009	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	
Cadmium	7440-66-6	mg/L	1/2/2010								<0.0025	<0.0025	
Cadmium	7440-66-6	mg/L	3/3/2010								<0.0025	<0.0025	<0.0025
Cadmium	7440-66-6	mg/L	5/10/2010	<0.0004	<0.0004	<0.002	<0.0004	<0.0004	<0.0004		0.0011	<0.0004	<0.0004
Cadmium	7440-66-6	mg/L	7/8/2010								<0.0025	<0.0025	<0.0025

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Cadmium	7440-66-6	mg/L	9/13/2010								<0.0025	<0.0025	<0.0025
Cadmium	7440-66-6	mg/L	11/1/2010								<0.0025	<0.0025	
Cadmium	7440-66-6	mg/L	1/10/2011								<0.0005	0.00097	
Cadmium	7440-66-6	mg/L	4/4/2011								<0.0025	<0.0025	<0.0005
Cadmium	7440-66-6	mg/L	7/8/2011										<0.0025
Cadmium	7440-66-6	mg/L	8/11/2011										<0.0025
Cadmium	7440-66-6	mg/L	10/13/2011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	0.00113	0.000964
Cadmium	7440-66-6	mg/L	12/5/2011						<0.0005				
Cadmium	7440-66-6	mg/L	4/11/2012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	0.000963	<0.0005
Cadmium	7440-66-6	mg/L	6/25/2012						<0.0005				
Cadmium	7440-66-6	mg/L	8/1/2012						<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	10/11/2012	<0.0005	<0.0005	0.000863	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00171	0.00449
Cadmium	7440-66-6	mg/L	12/13/2012						<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	3/30/2013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.001	0.00067
Cadmium	7440-66-6	mg/L	10/7/2013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00145
Cadmium	7440-66-6	mg/L	6/2/2014	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000403J	<0.0005	0.000124J	0.000605	0.000483J
Cadmium	7440-66-6	mg/L	10/15/2014	<0.0005	<0.0005	<0.0005	0.0000854J	<0.0005	0.000228J	<0.0005	0.000404J	0.000735	<0.0005
Cadmium	7440-66-6	mg/L	4/6/2015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000481J	0.00064	0.00039J
Cadmium	7440-66-6	mg/L	10/5/2015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000338J	<0.0005	0.000605	0.000853	0.000456J; 0.000316J
Cadmium	7440-66-6	mg/L	4/4/2016	0.000048J	<0.0005	<0.0005	0.000085J	0.00009J	<0.0005	0.000073J	0.000433J	0.000574; 0.000605	0.000296J
Cadmium	7440-66-6	mg/L	10/17/2016	<0.0005	<0.0005	<0.0005	0.00009J	0.00005J; 0.000046J	<0.0005	0.000085J	0.000378J	0.00172	0.000196J
Cadmium	7440-66-6	mg/L	4/17/2017	0.00005J	<0.0005	<0.0005	0.000095J	0.000106J	<0.0005	0.000085J	0.000095J	0.000746	0.000234J
Cadmium	7440-66-6	mg/L	10/11/2017	<0.0005	<0.0005	0.00005J	0.000118J	0.000046J	0.000388J	0.000275J	0.000129J	0.000555	0.000115J
Cadmium	7440-66-6	mg/L	4/20/2018						<0.0005				
Cadmium	7440-66-6	mg/L	4/24/2018				0.000077J	0.000066J			0.000064J		
Cadmium	7440-66-6	mg/L	4/25/2018	0.000078J	<0.002	<0.0005				0.000073J		0.000439J	<0.0005
Cadmium	7440-66-6	mg/L	10/16/2018	<0.0005	<0.0005	<0.0005	0.000187J	<0.0005	0.000185J	0.000521	<0.0005	0.000449J	<0.0005
Cadmium	7440-66-6	mg/L	4/16/2019	<0.0005	<0.0005	<0.0005	<0.0005	0.000084J	<0.0005	<0.0005	<0.0005	0.000745	<0.0005
Cadmium	7440-66-6	mg/L	10/1/2019	<0.0001	<0.0001	<0.0001	0.000149	0.000063J	<0.0001	0.000199	<0.0001	0.000794	<0.0001
Cadmium	7440-66-6	mg/L	3/30/2020	<0.0001	<0.0001	<0.0001	<0.0001	0.000063J	<0.0001	0.000054J	<0.0001	0.000773	<0.0001
Cadmium	7440-66-6	mg/L	10/7/2020	<0.0001	<0.0001	<0.0001	0.000128	0.000051J	<0.0001	0.000426	0.000055J	0.000769; 0.000723	<0.0001
Cadmium	7440-66-6	mg/L	4/13/2021	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	0.0001J	<0.0008	0.0007J	<0.0008
Cadmium	7440-66-6	mg/L	10/20/2021						<0.0008; 0.0001J				<0.0008
Cadmium	7440-66-6	mg/L	5/2/2022				<0.0008		<0.0008	0.0004J			<0.0008
Cadmium	7440-66-6	mg/L	10/14/2022						<0.0008				<0.0008
Cadmium	7440-66-6	mg/L	5/1/2023						<0.0002	<0.0002			<0.0002
Cadmium	7440-66-6	mg/L	10/16/2023						<0.0002				<0.0002
Cadmium	7440-66-6	mg/L	4/29/2024						<0.0002	0.000136J			<0.0008
Cadmium	7440-66-6	mg/L	10/10/2024										<0.000200
Cadmium	7440-66-6	mg/L	10/11/2024						<0.000200				
Calcium	7440-66-6	mg/L	6/2/2014	91.6	124	193	162	156	133	41.9	190	97.1	133
Calcium	7440-66-6	mg/L	10/15/2014	93.1	116	196	166	163	133	37.1	195	126	139
Calcium	7440-66-6	mg/L	3/30/2020								208		
Carbon Disulfide	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	7/7/2009								<1	<1	
Carbon Disulfide	7440-66-6	ug/L	9/2/2009								<1	<1	
Carbon Disulfide	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<5	<5		<5	<5	
Carbon Disulfide	7440-66-6	ug/L	1/2/2010								<5	<5	
Carbon Disulfide	7440-66-6	ug/L	3/3/2010								<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4			<4	<4
Carbon Disulfide	7440-66-6	ug/L	7/8/2010										<5
Carbon Disulfide	7440-66-6	ug/L	9/13/2010										<10
Carbon Disulfide	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/4/2011										
Carbon Disulfide	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	12/5/2011						<1				
Carbon Disulfide	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	6/25/2012						<1				
Carbon Disulfide	7440-66-6	ug/L	8/1/2012						<1	<1			
Carbon Disulfide	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	12/13/2012						<1	<1			
Carbon Disulfide	7440-66-6	ug/L	2/4/2013						<1	<1			
Carbon Disulfide	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Carbon Disulfide	7440-66-6	ug/L	4/6/2015	<1	<1	<1		<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/5/2015	<1	<1	<1		<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/17/2017	<1	<1	<1		<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/20/2018						<1				
Carbon Disulfide	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
Carbon Disulfide	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/20/2021						<1				<1
Carbon Disulfide	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Carbon Disulfide	7440-66-6	ug/L	10/14/2022						<1				<1
Carbon Disulfide	7440-66-6	ug/L	5/1/2023				<1		<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/16/2023						<1				<1
Carbon Disulfide	7440-66-6	ug/L	4/29/2024						<1	<1			<1
Carbon disulfide	7440-66-6	ug/L	10/10/2024										<1.00
Carbon disulfide	7440-66-6	ug/L	10/11/2024						<1.00				
Carbon Tetrachloride	7440-66-6	ug/L	2/27/2008	<2	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	5/12/2008	<2	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	7/13/2008	<2	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	9/14/2008	<2	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	11/17/2008	<2	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	7/7/2009								<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	9/2/2009								<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<5	<2		<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	1/2/2010								<5	<5	
Carbon Tetrachloride	7440-66-6	ug/L	3/3/2010								<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4			<4	<4
Carbon Tetrachloride	7440-66-6	ug/L	7/8/2010										<5
Carbon Tetrachloride	7440-66-6	ug/L	9/13/2010										<5
Carbon Tetrachloride	7440-66-6	ug/L	11/1/2010	<5	<2	<2	<5	<5			<2	<5	
Carbon Tetrachloride	7440-66-6	ug/L	4/4/2011										<2
Carbon Tetrachloride	7440-66-6	ug/L	10/13/2011	<2	<2	<2	<2	<2			<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	12/5/2011						<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/11/2012	<2	<2	<2	<2	<2	<2		<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	6/25/2012						<2				
Carbon Tetrachloride	7440-66-6	ug/L	8/1/2012						<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	10/11/2012	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	12/13/2012						<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	2/4/2013						<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2013	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/7/2013	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	6/2/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/15/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/6/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/5/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/4/2016	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/17/2016	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/17/2017	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/11/2017	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/20/2018						<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/24/2018				<2	<2			<2		
Carbon Tetrachloride	7440-66-6	ug/L	4/25/2018	<2	<2	<2				<2		<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/16/2018	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/16/2019	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/1/2019	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2020	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/7/2020	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	7440-66-6	ug/L	10/20/2021										<1
Carbon Tetrachloride	7440-66-6	ug/L	5/2/2022				<1		0.5J	<1			<1
Carbon Tetrachloride	7440-66-6	ug/L	10/14/2022						<1				<1
Carbon Tetrachloride	7440-66-6	ug/L	5/1/2023				<2		<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/16/2023						<2				<2

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Carbon Tetrachloride	7440-66-6	ug/L	4/29/2024						<2	<2			<2
Carbon tetrachloride	7440-66-6	ug/L	10/10/2024										<2
Carbon tetrachloride	7440-66-6	ug/L	10/11/2024						<2.00				<2.00
Carbonate	7440-66-6	mg/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbonate	7440-66-6	mg/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbonate	7440-66-6	mg/L	3/30/2020										
Chlordane	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2	<2				
Chlordane	7440-66-6	ug/L	7/7/2009		<2	<2							
Chlordane	7440-66-6	ug/L	9/2/2009			<2							
Chlordane	7440-66-6	ug/L	5/10/2010	<2	<2	<2	<2	<2	<2			<2	
Chlordane	7440-66-6	ug/L	4/4/2011										<2
Chlordane	7440-66-6	ug/L	10/15/2014								<2		
Chlordane	7440-66-6	ug/L	10/5/2015	<2.06	<2	<2		<2.02	<2.04		<2.38	<2	
Chlordane	7440-66-6	ug/L	4/4/2016										<2.08
Chlordane	7440-66-6	ug/L	4/17/2017				<2.11						
Chlordane	7440-66-6	ug/L	3/30/2020	<2.11	<2.08	<2.08		<2.13	<2.06		<2.11	<2.11	
Chlordane	7440-66-6	ug/L	10/20/2021										<0.1
Chlordane	7440-66-6	ug/L	5/2/2022				<0.1						
Chloride	7440-66-6	mg/L	6/2/2014	4.23J	32.5	88.8	83	80.2	54.6	3.51J	46.7	93.7	9.79
Chloride	7440-66-6	mg/L	10/15/2014	6.97	34.3	82.4	79.7	70.4	59.3	2.9J	46.2	78.4	9.59
Chloride	7440-66-6	mg/L	3/30/2020								4.65J		
Chlorobenzene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	7/7/2009								<1	<1	
Chlorobenzene	7440-66-6	ug/L	9/2/2009								<1	<1	
Chlorobenzene	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<1	<2		<2	<2	
Chlorobenzene	7440-66-6	ug/L	1/2/2010								<1	<1	
Chlorobenzene	7440-66-6	ug/L	3/3/2010								<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
Chlorobenzene	7440-66-6	ug/L	7/8/2010									<1	<1
Chlorobenzene	7440-66-6	ug/L	9/13/2010										<1
Chlorobenzene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
Chlorobenzene	7440-66-6	ug/L	4/4/2011										<1
Chlorobenzene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	12/5/2011						<1				
Chlorobenzene	7440-66-6	ug/L	4/1/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	6/25/2012						<1				
Chlorobenzene	7440-66-6	ug/L	8/1/2012						<1	<1			
Chlorobenzene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	12/13/2012						<1	<1			
Chlorobenzene	7440-66-6	ug/L	2/4/2013						<1	<1			
Chlorobenzene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	4/20/2018						<1				
Chlorobenzene	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
Chlorobenzene	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
Chlorobenzene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/20/2021						<1				<1
Chlorobenzene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Chlorobenzene	7440-66-6	ug/L	10/14/2022						<1				<1
Chlorobenzene	7440-66-6	ug/L	5/1/2023				<1		<1	<1	<1		<1
Chlorobenzene	7440-66-6	ug/L	10/16/2023						<1				<1
Chlorobenzene	7440-66-6	ug/L	4/29/2024						<1	<1			<1.00
Chlorobenzene	7440-66-6	ug/L	10/10/2024										<1.00

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Chlorobenzene	7440-66-6	ug/L	10/11/2024						<1.00				
Chlorobenzilate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Chlorobenzilate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Chlorobenzilate	7440-66-6	ug/L	4/4/2011										<10
Chlorobenzilate	7440-66-6	ug/L	10/15/2014								<10		
Chlorobenzilate	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Chlorobenzilate	7440-66-6	ug/L	4/4/2016										<10.3
Chlorobenzilate	7440-66-6	ug/L	4/17/2017				<11						
Chlorobenzilate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Chlorobenzilate	7440-66-6	ug/L	10/20/2021										<8
Chlorobenzilate	7440-66-6	ug/L	5/2/2022				<8						
Chlorodibromomethane	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	7/7/2009								<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	9/2/2009								<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<10	<5		<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	1/2/2010								<50	<50	
Chlorodibromomethane	7440-66-6	ug/L	3/3/2010								<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5		<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	7/8/2010										<5
Chlorodibromomethane	7440-66-6	ug/L	9/13/2010										<5
Chlorodibromomethane	7440-66-6	ug/L	11/1/2010	<5	<5	<5	<5	<5			<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	4/4/2011										<5
Chlorodibromomethane	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5			<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	12/5/2011						<5				
Chlorodibromomethane	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5		<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	6/25/2012						<5				
Chlorodibromomethane	7440-66-6	ug/L	8/1/2012						<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	12/13/2012						<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	2/4/2013						<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/7/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/6/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/17/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/20/2018						<5				
Chlorodibromomethane	7440-66-6	ug/L	4/24/2018				<5	<5			<5		
Chlorodibromomethane	7440-66-6	ug/L	4/25/2018	<5	<5	<5				<5		<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	7440-66-6	ug/L	10/20/2021						<1				<1
Chlorodibromomethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Chlorodibromomethane	7440-66-6	ug/L	10/14/2022						<1				<1
Chlorodibromomethane	7440-66-6	ug/L	5/1/2023				<5		<5	<5		<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/16/2023						<5				<5
Chlorodibromomethane	7440-66-6	ug/L	4/29/2024							<5			<5
Chlorodibromomethane	7440-66-6	ug/L	10/10/2024										<5.00
Chlorodibromomethane	7440-66-6	ug/L	10/11/2024						<5.00				
Chloroethane	7440-66-6	ug/L	2/27/2008	<4	<4	<4	<4	<4	<4				
Chloroethane	7440-66-6	ug/L	5/12/2008	<4	<4	<4	<4	<4	<4				
Chloroethane	7440-66-6	ug/L	7/13/2008	<4	<4	<4	<4	<4	<4				
Chloroethane	7440-66-6	ug/L	9/14/2008	<4	<4	<4	<4	<4	<4				
Chloroethane	7440-66-6	ug/L	11/17/2008	<4	<4	<4	<4	<4	<4				
Chloroethane	7440-66-6	ug/L	4/14/2009	<4	<4	<4	<4	<4	<4				
Chloroethane	7440-66-6	ug/L	7/7/2009								<4	<4	
Chloroethane	7440-66-6	ug/L	9/2/2009								<4	<4	
Chloroethane	7440-66-6	ug/L	10/25/2009	<4	<4	<4	<4	<4	<4		<4	<4	

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Chloroethane	7440-66-6	ug/L	1/2/2010								<4	<4	
Chloroethane	7440-66-6	ug/L	3/3/2010								<4	<4	<4
Chloroethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4			<4	<4
Chloroethane	7440-66-6	ug/L	7/8/2010										<4
Chloroethane	7440-66-6	ug/L	9/13/2010										<4
Chloroethane	7440-66-6	ug/L	11/1/2010	<4	<4	<4	<4	<4		<4	<4		
Chloroethane	7440-66-6	ug/L	4/4/2011										<4
Chloroethane	7440-66-6	ug/L	10/13/2011	<4	<4	<4	<4	<4		<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	12/5/2011						<4				
Chloroethane	7440-66-6	ug/L	4/11/2012	<4	<4	<4	<4	<4	<4		<4	<4	<4
Chloroethane	7440-66-6	ug/L	6/25/2012						<4				
Chloroethane	7440-66-6	ug/L	8/1/2012						<4	<4			
Chloroethane	7440-66-6	ug/L	10/11/2012	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	12/13/2012						<4	<4			
Chloroethane	7440-66-6	ug/L	2/4/2013						<4	<4			
Chloroethane	7440-66-6	ug/L	3/30/2013	<4	<4	<4	4.12	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/7/2013	<4	<4		<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	6/2/2014	<4	<4	1.14J	0.746J	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/15/2014	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/6/2015	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/5/2015	<4	<4	1.06J		<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/4/2016	<4	<4	<4	0.861J	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/17/2016	<4	<4	<4	0.984J	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/17/2017	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/11/2017	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/20/2018						<4				
Chloroethane	7440-66-6	ug/L	4/24/2018				<4	<4			<4		
Chloroethane	7440-66-6	ug/L	4/25/2018	<4	<4	<4				<4		<4	<4
Chloroethane	7440-66-6	ug/L	10/16/2018	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/16/2019	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/1/2019	<4	<4	1.58J	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	3/30/2020	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/7/2020	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	10/20/2021						<1				<1
Chloroethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Chloroethane	7440-66-6	ug/L	10/14/2022						<1				<1
Chloroethane	7440-66-6	ug/L	5/1/2023				<4			<4		<4	<4
Chloroethane	7440-66-6	ug/L	10/16/2023						<4				<4
Chloroethane	7440-66-6	ug/L	4/29/2024						<4	<4			<4
Chloroethane	7440-66-6	ug/L	10/10/2024										<4.00
Chloroethane	7440-66-6	ug/L	10/11/2024						<4.00				<4.00
Chloroform	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
Chloroform	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
Chloroform	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
Chloroform	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
Chloroform	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<2.5	<1				
Chloroform	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Chloroform	7440-66-6	ug/L	7/7/2009								<1	<1	
Chloroform	7440-66-6	ug/L	9/2/2009								<1	<1	
Chloroform	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<1	<2		<2	<2	
Chloroform	7440-66-6	ug/L	1/2/2010								<1	<1	
Chloroform	7440-66-6	ug/L	3/3/2010								<1	<1	<1
Chloroform	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
Chloroform	7440-66-6	ug/L	7/8/2010										<1
Chloroform	7440-66-6	ug/L	9/13/2010										<1
Chloroform	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
Chloroform	7440-66-6	ug/L	4/4/2011										<1
Chloroform	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1		<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	12/5/2011						<1				
Chloroform	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
Chloroform	7440-66-6	ug/L	6/25/2012						<1				
Chloroform	7440-66-6	ug/L	8/1/2012						<1	<1			
Chloroform	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	12/13/2012						<1	<1			
Chloroform	7440-66-6	ug/L	2/4/2013						<1	<1			
Chloroform	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	10/7/2013	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	4/6/2015	<1	<1	<1		<1	<1	<1	<1	<1	<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Chloroform	7440-66-6	ug/L	10/5/2015	<1	<1	<1		<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	4/20/2018						<1				
Chloroform	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
Chloroform	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
Chloroform	7440-66-6	ug/L	10/16/2018	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	4/16/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	10/1/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	3/30/2020	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	10/7/2020	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	10/20/2021						<1				<1
Chloroform	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Chloroform	7440-66-6	ug/L	10/14/2022						<1				<1
Chloroform	7440-66-6	ug/L	5/1/2023				<3		<3	<3	<3		<3
Chloroform	7440-66-6	ug/L	10/16/2023						<3				<3
Chloroform	7440-66-6	ug/L	4/29/2024						<3	<3			<3
Chloroform	7440-66-6	ug/L	10/10/2024										<3.00
Chloroform	7440-66-6	ug/L	10/11/2024						<3.00				
Chloromethane	7440-66-6	ug/L	2/27/2008	<3	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	5/12/2008	<3	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	7/13/2008	<3	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	9/14/2008	<3	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	11/17/2008	<3	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	4/14/2009	<3	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	7/7/2009								<3	<3	
Chloromethane	7440-66-6	ug/L	9/2/2009								<3	<3	
Chloromethane	7440-66-6	ug/L	10/25/2009	<3	<3	<3	<3	<3	<3		<3	<3	
Chloromethane	7440-66-6	ug/L	1/2/2010								<3	<3	
Chloromethane	7440-66-6	ug/L	3/3/2010								<3	<3	<3
Chloromethane	7440-66-6	ug/L	5/10/2010	<3	<3	<3	<3	<3	<3		<3	<3	<3
Chloromethane	7440-66-6	ug/L	7/8/2010										<3
Chloromethane	7440-66-6	ug/L	9/13/2010										<3
Chloromethane	7440-66-6	ug/L	11/1/2010	<3	<3	<3	<3	<3			<3	<3	
Chloromethane	7440-66-6	ug/L	4/4/2011										<3
Chloromethane	7440-66-6	ug/L	10/13/2011	<3	<3	<3	<3	<3			<3	<3	<3
Chloromethane	7440-66-6	ug/L	12/5/2011						<3				
Chloromethane	7440-66-6	ug/L	4/11/2012	<3	<3	<3	<3	<3	<3		<3	<3	<3
Chloromethane	7440-66-6	ug/L	6/25/2012						<3				
Chloromethane	7440-66-6	ug/L	8/1/2012						<3	<3			
Chloromethane	7440-66-6	ug/L	10/11/2012	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	12/13/2012						<3	<3			
Chloromethane	7440-66-6	ug/L	2/4/2013						<3	<3			
Chloromethane	7440-66-6	ug/L	3/30/2013	<3	<3	<3	<3	<3	<3	<3		<3	<3
Chloromethane	7440-66-6	ug/L	10/7/2013	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	6/2/2014	<3	<3	<3	<3	<3	<3	<3	1.89J	<3	<3
Chloromethane	7440-66-6	ug/L	10/15/2014	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/6/2015	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/5/2015	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/4/2016	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/17/2016	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/17/2017	<3	<3	0.509J	0.36J	0.441J	0.464J	<3	0.349J	<3	<3
Chloromethane	7440-66-6	ug/L	10/11/2017	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/20/2018						<3				
Chloromethane	7440-66-6	ug/L	4/24/2018				<3	<3			<3		
Chloromethane	7440-66-6	ug/L	4/25/2018	<3	<3	<3	<3	<3	<3	<3		<3	<3
Chloromethane	7440-66-6	ug/L	10/16/2018	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/16/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/1/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	3/30/2020	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/7/2020	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	7440-66-6	ug/L	10/20/2021						<1				<1
Chloromethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Chloromethane	7440-66-6	ug/L	10/14/2022				<3		<1			<3	<1
Chloromethane	7440-66-6	ug/L	5/1/2023						<3	<3		<3	<3
Chloromethane	7440-66-6	ug/L	10/16/2023						<3				<3
Chloromethane	7440-66-6	ug/L	4/29/2024						<3	<3			<3

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Chloromethane	7440-66-6	ug/L	10/10/2024										<3.00
Chloromethane	7440-66-6	ug/L	10/11/2024						<3.00				
Chloroprene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Chloroprene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	
Chloroprene	7440-66-6	ug/L	4/4/2011										<1
Chloroprene	7440-66-6	ug/L	10/15/2014								<1		
Chloroprene	7440-66-6	ug/L	10/5/2015	<1	<1	<1		<1	<1		<1	<1	
Chloroprene	7440-66-6	ug/L	4/4/2016										<1
Chloroprene	7440-66-6	ug/L	4/17/2017				<1						
Chloroprene	7440-66-6	ug/L	3/30/2020	<1	<1	<1		<1	<1		<1	<1	
Chloroprene	7440-66-6	ug/L	10/20/2021										<1
Chloroprene	7440-66-6	ug/L	5/2/2022				<1						
Chromium	7440-66-6	mg/L	2/27/2008	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Chromium	7440-66-6	mg/L	5/12/2008	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Chromium	7440-66-6	mg/L	7/13/2008	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Chromium	7440-66-6	mg/L	9/14/2008	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Chromium	7440-66-6	mg/L	11/17/2008	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02				
Chromium	7440-66-6	mg/L	4/14/2009	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				
Chromium	7440-66-6	mg/L	7/7/2009								<0.1	<0.1	
Chromium	7440-66-6	mg/L	9/2/2009								<0.1	<0.1	
Chromium	7440-66-6	mg/L	10/25/2009	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	
Chromium	7440-66-6	mg/L	1/2/2010								<0.1	<0.1	
Chromium	7440-66-6	mg/L	3/3/2010								<0.1	<0.1	<0.1
Chromium	7440-66-6	mg/L	5/10/2010	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			<0.02	<0.02
Chromium	7440-66-6	mg/L	7/8/2010										<0.1
Chromium	7440-66-6	mg/L	9/13/2010										<0.1
Chromium	7440-66-6	mg/L	11/1/2010								<0.1	<0.1	
Chromium	7440-66-6	mg/L	4/4/2011								<0.1	<0.1	<0.02
Chromium	7440-66-6	mg/L	7/8/2011										<0.1
Chromium	7440-66-6	mg/L	8/11/2011										<0.1
Chromium	7440-66-6	mg/L	10/13/2011	<0.02	<0.02	<0.02	<0.02	<0.02			<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	12/5/2011						<0.02				
Chromium	7440-66-6	mg/L	4/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	6/25/2012						<0.02				
Chromium	7440-66-6	mg/L	8/1/2012						<0.02	<0.02			
Chromium	7440-66-6	mg/L	10/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.067
Chromium	7440-66-6	mg/L	12/13/2012						<0.02	<0.02			
Chromium	7440-66-6	mg/L	3/30/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	10/7/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0202	<0.02	<0.02
Chromium	7440-66-6	mg/L	6/2/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	10/15/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	4/6/2015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	10/5/2015	<0.005	<0.005	<0.005	<0.005	<0.005	0.00341J	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	4/4/2016	<0.005	<0.005	<0.005	<0.005	<0.005	0.000632J	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	10/17/2016	0.000514J	<0.005	<0.005	<0.005	<0.005	0.000597J	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	4/17/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	10/11/2017	<0.005	<0.005	0.000867J	<0.005	<0.005	0.00185J	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	4/20/2018						0.00177J				
Chromium	7440-66-6	mg/L	4/24/2018				<0.005	<0.005			<0.005		
Chromium	7440-66-6	mg/L	4/25/2018	0.0014J	<0.02	<0.005				<0.005		<0.005	<0.005
Chromium	7440-66-6	mg/L	10/16/2018	0.00168J	<0.005	0.00507	0.00364J	0.00332J	0.00988	0.0174	0.00333J	<0.005	<0.005
Chromium	7440-66-6	mg/L	4/16/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	10/1/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	3/30/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	10/7/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	4/13/2021	0.0006J	<0.008	<0.008	<0.008	<0.008	0.0008J	<0.008	<0.008	<0.008	<0.008
Chromium	7440-66-6	mg/L	10/20/2021						0.001J; 0.003J				<0.008
Chromium	7440-66-6	mg/L	5/2/2022				<0.008		0.0029J	0.0034J			<0.008
Chromium	7440-66-6	mg/L	10/14/2022						0.0048J; 0.0036J				0.0007J
Chromium	7440-66-6	mg/L	5/1/2023						<0.005	<0.005			<0.005
Chromium	7440-66-6	mg/L	10/16/2023						<0.005				<0.005
Chromium	7440-66-6	mg/L	4/29/2024						<0.005	<0.005			<0.02
Chromium	7440-66-6	mg/L	10/10/2024										<0.00500
Chromium	7440-66-6	mg/L	10/11/2024						<0.00500				
Chrysene	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Chrysene	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Chrysene	7440-66-5	ug/L	4/4/2011										<10
Chrysene	7440-66-5	ug/L	10/15/2014								<10		
Chrysene	7440-66-5	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Chrysene	7440-66-5	ug/L	4/4/2016										<10.3
Chrysene	7440-66-5	ug/L	4/17/2017				<11						

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Chrysene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Chrysene	7440-66-6	ug/L	10/20/2021										<8
Chrysene	7440-66-6	ug/L	5/2/2022				<8						
cis-1,2-Dichloroethene	7440-66-6	ug/L	2/27/2008	<1	<1	<1		<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	7/7/2009								<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	9/2/2009								<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1		<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	1/2/2010								<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/3/2010								<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	7/8/2010										<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	9/13/2010										<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2011										<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	12/5/2011						<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	6/25/2012						<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	8/1/2012						<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	12/13/2012						<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	2/4/2013						<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	6/2/2014	<1	<1	0.344J	<1	<1	<1	<1	0.381J	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/6/2015	<1	<1	<1		<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/5/2015	<1	<1	0.203J		0.18J	<1	<1	0.712J	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	0.177J	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/17/2016	<1	0.34J	<1	<1	<1	<1	<1	0.341J	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2017	<1	0.243J; <1	<1	<1	<1	<1	<1	0.224J	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/20/2018				<1	<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/24/2018					<1			0.292J		
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/20/2021						<1				<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2022						<1				<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2023						<1				<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/29/2024					<1	<1	<1			<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/10/2024										<1.00
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2024						<1.00				
cis-1,3-Dichloropropene	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/12/2008					<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/7/2009								<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	9/2/2009								<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<5	<5		<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	1/2/2010								<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/3/2010								<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5		<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/8/2010										<10
cis-1,3-Dichloropropene	7440-66-6	ug/L	9/13/2010										
cis-1,3-Dichloropropene	7440-66-6	ug/L	11/1/2010	<5	<5	<5	<5	<5			<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2011										<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5			<5	<5	<5

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
cis-1,3-Dichloropropene	7440-66-6	ug/L	12/5/2011						<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5		<5		<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	6/25/2012						<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	8/1/2012						<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<5		<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	12/13/2012						<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	2/4/2013						<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/6/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/17/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/20/2018						<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/24/2018			<5		<5			<5		
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/25/2018	<5	<5	<5				<5		<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/20/2021						<1				<1
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/14/2022						<1				<1
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/1/2023				<5		<5	<5		<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2023						<5				<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/29/2024						<5	<5			<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/10/2024										<5.00
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2024						<5.00				
Cobalt	7440-66-6	mg/L	2/27/2008	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	5/12/2008	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	7/13/2008	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	9/14/2008	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	11/17/2008	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	4/14/2009	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	7/7/2009								<0.02	<0.02	
Cobalt	7440-66-6	mg/L	9/2/2009								<0.02	<0.02	
Cobalt	7440-66-6	mg/L	10/25/2009	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	
Cobalt	7440-66-6	mg/L	1/2/2010								<0.02	<0.02	
Cobalt	7440-66-6	mg/L	3/3/2010								<0.02	<0.02	0.0389
Cobalt	7440-66-6	mg/L	5/10/2010	<0.02	0.0025	0.0151	0.01	0.00803	<0.02			0.00689	0.0336
Cobalt	7440-66-6	mg/L	7/8/2010								0.0182	0.00539	0.0298
Cobalt	7440-66-6	mg/L	9/13/2010								0.018	0.00649	0.0219
Cobalt	7440-66-6	mg/L	11/1/2010	0.00272	0.00298	0.00332	0.00942	0.00592			0.0117	0.00558	
Cobalt	7440-66-6	mg/L	1/10/2011								0.015	0.00344	
Cobalt	7440-66-6	mg/L	4/4/2011		0.0034	0.00422					0.0143	0.00454	0.0313
Cobalt	7440-66-6	mg/L	7/8/2011										0.0141
Cobalt	7440-66-6	mg/L	8/11/2011										0.0162
Cobalt	7440-66-6	mg/L	10/13/2011	0.00272	0.00258	0.00237	0.00909	0.00778			0.017	0.00575	0.0214
Cobalt	7440-66-6	mg/L	12/5/2011						0.0017				0.00757
Cobalt	7440-66-6	mg/L	4/11/2012	<0.02	0.00631	0.00178	0.00981	0.00626	0.00761		0.0178	0.00571	0.00631
Cobalt	7440-66-6	mg/L	6/25/2012						<0.02				
Cobalt	7440-66-6	mg/L	8/1/2012						<0.02	0.00445			
Cobalt	7440-66-6	mg/L	10/11/2012	0.00325	<0.02	0.0109	0.00833	0.00703	<0.02	0.00249	0.0158	0.00635	0.0559
Cobalt	7440-66-6	mg/L	12/13/2012						<0.0155	0.00202			
Cobalt	7440-66-6	mg/L	3/30/2013	0.00502	0.00289	0.00404	0.0103	0.00709	<0.0132	<0.0132	0.0158	0.00687	0.0228
Cobalt	7440-66-6	mg/L	10/7/2013	<0.007	<0.007	0.013	0.00983	0.00757	<0.007	<0.007	0.0176	<0.007	0.0263
Cobalt	7440-66-6	mg/L	6/2/2014	<0.00241	<0.00241	<0.00241	0.0081	0.00643	0.0107	<0.00241	0.0131	0.00372	0.00484
Cobalt	7440-66-6	mg/L	10/15/2014	<0.00241	<0.00241	<0.00241	0.00881	0.00615	0.00342	<0.00241	0.0141	0.00533	0.00652
Cobalt	7440-66-6	mg/L	4/6/2015	0.00215	0.000894	0.00135		0.00668	0.000275J	0.000335J	0.0159	0.00682	0.00689
Cobalt	7440-66-6	mg/L	10/5/2015	0.00122	0.00051	0.00103		0.007	0.0075	0.000614	0.0138	0.00645	0.00978; 0.0112
Cobalt	7440-66-6	mg/L	4/4/2016	0.000525	0.000459J	0.000749	0.00803	0.00638	0.000504	0.000386J	0.0337	0.00572; 0.0059	0.00975
Cobalt	7440-66-6	mg/L	10/17/2016	0.00103	0.000431J	0.00091	0.00798	0.00742; 0.00756	0.000582	0.000424J	0.0193	0.00604	0.0132
Cobalt	7440-66-6	mg/L	4/17/2017	0.00037J	0.000147J; 0.000221J	0.00114	0.00199	0.00654	0.000234J	0.000501	0.00558	0.00647	0.00906
Cobalt	7440-66-6	mg/L	10/11/2017	0.00403	0.00014J; 0.000159J	0.00212	0.00195	0.00539	0.00732	0.000905	0.0159	0.0057	0.0147
Cobalt	7440-66-6	mg/L	4/20/2018						0.000726				

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Cobalt	7440-66-6	mg/L	4/24/2018				0.00269	0.00438			0.0181		
Cobalt	7440-66-6	mg/L	4/25/2018	0.000796	<0.002	0.00106				0.000904		0.00508	0.017; 0.019
Cobalt	7440-66-6	mg/L	10/16/2018	0.00053J	<0.001	0.000973J	0.00152	0.00855	0.00198	0.00817	0.0172	0.00552	0.0483
Cobalt	7440-66-6	mg/L	4/16/2019	0.000111J	0.000115J	0.000886	0.000696	0.00185	0.000267J	0.000728	0.02	0.00614	0.0528
Cobalt	7440-66-6	mg/L	10/1/2019	0.00548	0.000106J	0.00158	0.00049J	0.00677	0.000334J; 0.000261J	0.000948	0.0182	0.00627	0.0476
Cobalt	7440-66-6	mg/L	3/30/2020	0.000255J	0.000169J	0.000963	0.000962	0.00705	0.000314J	0.000204J	0.0134	0.00646	0.0577; 0.06
Cobalt	7440-66-6	mg/L	10/7/2020	0.00451	0.000119J	0.000931	0.000657	0.00617	0.000232J	0.00207	0.00831	0.00609; 0.00619	0.0487
Cobalt	7440-66-6	mg/L	4/13/2021	0.0003J	0.0003J	0.0006	0.0005	0.0028	0.0003J	0.0007	0.0067	0.006	0.0825
Cobalt	7440-66-6	mg/L	10/20/2021						0.0009; 0.0016				0.102
Cobalt	7440-66-6	mg/L	5/2/2022	0.0003J	0.0003J	0.0031	0.0014	0.0071	0.0018	0.009	0.0016	0.0093	0.0843
Cobalt	7440-66-6	mg/L	10/14/2022						0.0044; 0.0024				0.081
Cobalt	7440-66-6	mg/L	5/1/2023	0.000276J	0.000257J	0.00163	0.000527	0.00374	0.00162	0.00123	0.000456J	0.00419	0.0411
Cobalt	7440-66-6	mg/L	10/16/2023						0.000727; 0.000701				0.0358
Cobalt	7440-66-6	mg/L	4/29/2024	<0.0005	<0.0005	0.00941	0.000328J	0.00118	0.000195J	0.00095	0.000297J	0.00427; 0.00432	0.0641
Cobalt	7440-66-6	mg/L	10/10/2024										0.0509
Cobalt	7440-66-6	mg/L	10/11/2024						0.000243J				
Copper	7440-66-6	mg/L	2/27/2008	0.032	0.031	0.049	0.027	<0.025					
Copper	7440-66-6	mg/L	5/12/2008	<0.025	0.095	0.039	<0.025	<0.025	<0.025				
Copper	7440-66-6	mg/L	7/13/2008	<0.025	0.03	<0.025	<0.025	<0.025					
Copper	7440-66-6	mg/L	9/14/2008	<0.025	<0.025	0.027	<0.025	<0.025	<0.025				
Copper	7440-66-6	mg/L	11/17/2008	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02				
Copper	7440-66-6	mg/L	4/14/2009	<0.025	<0.025; 0.026	0.048	<0.025	<0.025	<0.025				
Copper	7440-66-6	mg/L	7/7/2009		<0.025	<0.025					<0.025	<0.025	
Copper	7440-66-6	mg/L	9/2/2009		0.034; 0.038	<0.025					<0.025	<0.025	
Copper	7440-66-6	mg/L	10/25/2009	<0.025	0.043	<0.025	<0.025	<0.025	<0.025		<0.025	<0.025	
Copper	7440-66-6	mg/L	1/2/2010		<0.025	<0.025					<0.025	<0.025	
Copper	7440-66-6	mg/L	3/3/2010								<0.025	<0.025	<0.025
Copper	7440-66-6	mg/L	5/10/2010	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			<0.02	<0.02
Copper	7440-66-6	mg/L	7/8/2010										<0.025
Copper	7440-66-6	mg/L	9/13/2010										<0.025
Copper	7440-66-6	mg/L	11/1/2010								<0.025	<0.025	
Copper	7440-66-6	mg/L	4/4/2011								<0.025	<0.025	<0.02
Copper	7440-66-6	mg/L	7/8/2011										<0.025
Copper	7440-66-6	mg/L	8/11/2011										<0.025
Copper	7440-66-6	mg/L	10/13/2011	<0.02	<0.02	<0.02	<0.02	<0.02			<0.02	<0.02	0.0305
Copper	7440-66-6	mg/L	12/5/2011						<0.02				
Copper	7440-66-6	mg/L	4/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	0.0327		<0.02	<0.02	<0.02
Copper	7440-66-6	mg/L	6/25/2012						<0.02				
Copper	7440-66-6	mg/L	8/1/2012						<0.02	<0.02			
Copper	7440-66-6	mg/L	10/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0888
Copper	7440-66-6	mg/L	12/13/2012						<0.02	<0.02			
Copper	7440-66-6	mg/L	3/30/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Copper	7440-66-6	mg/L	10/7/2013	<0.02	<0.02	<0.02	<0.02	<0.02	0.128	<0.02	<0.02	<0.02	0.0324
Copper	7440-66-6	mg/L	6/2/2014	<0.02	<0.02	<0.02	<0.02	<0.02	0.111	<0.02	<0.02	<0.02	<0.02
Copper	7440-66-6	mg/L	10/15/2014	<0.02	<0.02	<0.02	<0.02	<0.02	0.0361	0.00376J	0.00488J	0.00427J	0.005J
Copper	7440-66-6	mg/L	4/6/2015	0.00129J	<0.002	<0.002	<0.002	0.000491J	0.000937J	<0.002	0.00145J	0.00176J	0.0013J
Copper	7440-66-6	mg/L	10/5/2015	0.00215	0.000636J	<0.002	<0.002	<0.002	0.0191	<0.002	0.0023	0.00526	0.000676J; 0.000855J
Copper	7440-66-6	mg/L	4/4/2016	0.00248J	<0.005	<0.005	<0.005	<0.005	0.00154J	<0.005	0.00124J	0.00237J; 0.00253J	<0.005
Copper	7440-66-6	mg/L	10/17/2016	<0.005	<0.005	<0.005	<0.005	<0.005	0.00177J	<0.005	0.00122J	0.00636	<0.005
Copper	7440-66-6	mg/L	4/17/2017	0.00292J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00265J
Copper	7440-66-6	mg/L	10/11/2017	<0.005	<0.005	<0.005	0.022	<0.005	0.0193	<0.005	<0.005	0.00319J	<0.005
Copper	7440-66-6	mg/L	4/20/2018						0.00176J				
Copper	7440-66-6	mg/L	4/24/2018				<0.005	<0.005			<0.005		
Copper	7440-66-6	mg/L	4/25/2018	0.0052	<0.02	<0.005				<0.005		<0.005	<0.005
Copper	7440-66-6	mg/L	10/16/2018	0.0031	0.00072J; 0.000589J	0.00154J	0.00189J	0.00142J	0.00588	0.0129	0.00184J	0.00292	0.00367
Copper	7440-66-6	mg/L	4/16/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.00266J	<0.005	<0.005	<0.005	<0.005
Copper	7440-66-6	mg/L	10/1/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00222J	<0.005
Copper	7440-66-6	mg/L	3/30/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00368J	<0.005
Copper	7440-66-6	mg/L	10/7/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00151J	<0.005	0.00422J; 0.00356J	<0.005
Copper	7440-66-6	mg/L	4/13/2021	0.0028J	<0.004	<0.004	0.0013J	0.002J	0.0015J	0.0011J	<0.004	0.0101	<0.004
Copper	7440-66-6	mg/L	10/20/2021						0.0016J; 0.0043				0.0017J
Copper	7440-66-6	mg/L	5/2/2022	0.0022J	<0.004	0.0011J	0.001J	0.0016J	0.0053	0.0034J	<0.004	0.002J	<0.004
Copper	7440-66-6	mg/L	10/14/2022						0.0066				0.0015J
Copper	7440-66-6	mg/L	5/1/2023	0.00356J	0.0032J	<0.005	0.00281J	0.00547	0.0126	0.00194J	0.00304J	<0.005	<0.005
Copper	7440-66-6	mg/L	10/16/2023						<0.005				<0.005
Copper	7440-66-6	mg/L	4/29/2024	0.00188J	<0.005	0.00206J	<0.005	<0.005	<0.005	<0.005	0.00324J	<0.005	0.0025J
Copper	7440-66-6	mg/L	10/10/2024										<0.00500
Copper	7440-66-6	mg/L	10/11/2024						<0.00500				
Cyanide	7440-66-6	mg/L	4/14/2009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Cyanide	7440-66-6	mg/L	5/10/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	
Cyanide	7440-66-6	mg/L	4/4/2011										<0.01

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Cyanide	7440-66-6	mg/L	10/15/2014								<0.01		
Cyanide	7440-66-6	mg/L	10/5/2015	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	
Cyanide	7440-66-6	mg/L	4/4/2016								<0.01		<0.01
Cyanide	7440-66-6	mg/L	4/17/2017				<0.01						
Cyanide	7440-66-6	mg/L	3/30/2020	<0.01	<0.01	<0.01		<0.01	<0.01		<0.01	<0.01	
Cyanide	7440-66-6	mg/L	10/20/2021										<0.005
Cyanide	7440-66-6	mg/L	5/2/2022				<0.005						
Delta-BHC	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Delta-BHC	7440-66-6	ug/L	7/7/2009		<0.032	<0.032							
Delta-BHC	7440-66-6	ug/L	9/2/2009			<0.032							
Delta-BHC	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Delta-BHC	7440-66-6	ug/L	4/4/2011										<0.032
Delta-BHC	7440-66-6	ug/L	10/15/2014								0.00772J		
Delta-BHC	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	<0.032		<0.0323	<0.0327		0.00601J	<0.032	
Delta-BHC	7440-66-6	ug/L	4/4/2016										<0.0333
Delta-BHC	7440-66-6	ug/L	4/17/2017				<0.0337						
Delta-BHC	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.0333		<0.034	0.00288J		<0.0337	<0.0337	
Delta-BHC	7440-66-6	ug/L	10/20/2021										<0.05
Delta-BHC	7440-66-6	ug/L	5/2/2022				<0.05						
Diallate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Diallate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Diallate	7440-66-6	ug/L	4/4/2011										<10
Diallate	7440-66-6	ug/L	10/15/2014								<10		
Diallate	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Diallate	7440-66-6	ug/L	4/4/2016										<10.3
Diallate	7440-66-6	ug/L	4/17/2017				<11						
Diallate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Diallate	7440-66-6	ug/L	10/20/2021										<8
Diallate	7440-66-6	ug/L	5/2/2022				<8						
Dibenz [a,h] anthracene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Dibenz [a,h] anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Dibenz [a,h] anthracene	7440-66-6	ug/L	4/4/2011										<10
Dibenz [a,h] anthracene	7440-66-6	ug/L	10/15/2014								<10		
Dibenz [a,h] anthracene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Dibenz [a,h] anthracene	7440-66-6	ug/L	4/4/2016										<10.3
Dibenz [a,h] anthracene	7440-66-6	ug/L	4/17/2017				<11						
Dibenz [a,h] anthracene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Dibenz [a,h] anthracene	7440-66-6	ug/L	10/20/2021										<8
Dibenz [a,h] anthracene	7440-66-6	ug/L	5/2/2022				<8						
Dibenzofuran	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Dibenzofuran	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Dibenzofuran	7440-66-6	ug/L	4/4/2011										<10
Dibenzofuran	7440-66-6	ug/L	10/15/2014								<10		
Dibenzofuran	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Dibenzofuran	7440-66-6	ug/L	4/4/2016										<10.3
Dibenzofuran	7440-66-6	ug/L	4/17/2017				<11						
Dibenzofuran	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Dibenzofuran	7440-66-6	ug/L	10/20/2021										<8
Dibenzofuran	7440-66-6	ug/L	5/2/2022				<8						
Dibromomethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	7/7/2009								<1	<1	
Dibromomethane	7440-66-6	ug/L	9/2/2009								<1	<1	
Dibromomethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<1	<2		<2	<2	
Dibromomethane	7440-66-6	ug/L	1/2/2010								<1	<1	
Dibromomethane	7440-66-6	ug/L	3/3/2010								<1	<1	<1
Dibromomethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1		<1	<1	<1
Dibromomethane	7440-66-6	ug/L	7/8/2010										<1
Dibromomethane	7440-66-6	ug/L	9/13/2010										<1
Dibromomethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
Dibromomethane	7440-66-6	ug/L	4/4/2011										<1
Dibromomethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
Dibromomethane	7440-66-6	ug/L	12/5/2011						<1				
Dibromomethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
Dibromomethane	7440-66-6	ug/L	6/25/2012						<1				
Dibromomethane	7440-66-6	ug/L	8/1/2012						<1	<1			
Dibromomethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Dibromomethane	7440-66-6	ug/L	12/13/2012						<1	<1			
Dibromomethane	7440-66-6	ug/L	2/4/2013						<1	<1			
Dibromomethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/20/2018						<1				
Dibromomethane	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
Dibromomethane	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
Dibromomethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/20/2021						<1				<1
Dibromomethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Dibromomethane	7440-66-6	ug/L	10/14/2022						<1				<1
Dibromomethane	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
Dibromomethane	7440-66-6	ug/L	10/16/2023						<1				<1
Dibromomethane	7440-66-6	ug/L	4/29/2024						<1	<1			<1
Dibromomethane	7440-66-6	ug/L	10/10/2024										<1.00
Dibromomethane	7440-66-6	ug/L	10/11/2024						<1.00				
Dichlorodifluoromethane	7440-66-6	ug/L	4/14/2009	<3	<3	<3	<3	<3	<3				
Dichlorodifluoromethane	7440-66-6	ug/L	5/10/2010	<3	<3	<3	<3	<3	<3			<3	
Dichlorodifluoromethane	7440-66-6	ug/L	4/4/2011										<3
Dichlorodifluoromethane	7440-66-6	ug/L	10/15/2014								<3		
Dichlorodifluoromethane	7440-66-6	ug/L	10/5/2015	<3	<3	0.438J		<3	<3		0.965J	<3	
Dichlorodifluoromethane	7440-66-6	ug/L	4/4/2016										<3
Dichlorodifluoromethane	7440-66-6	ug/L	4/17/2017				<3						
Dichlorodifluoromethane	7440-66-6	ug/L	3/30/2020	<3	<3	<3		<3	<3		<3	<3	
Dichlorodifluoromethane	7440-66-6	ug/L	10/20/2021										<1
Dichlorodifluoromethane	7440-66-6	ug/L	5/2/2022										
Dieldrin	7440-66-5	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Dieldrin	7440-66-5	ug/L	7/7/2009		<0.032	<0.032							
Dieldrin	7440-66-5	ug/L	9/2/2009			<0.032							
Dieldrin	7440-66-5	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032
Dieldrin	7440-66-5	ug/L	4/4/2011										
Dieldrin	7440-66-5	ug/L	10/15/2014								0.0128J		
Dieldrin	7440-66-5	ug/L	10/5/2015	<0.033	<0.032	<0.032		<0.0323	<0.0327		0.00766J	<0.032	
Dieldrin	7440-66-5	ug/L	4/4/2016										0.00228J
Dieldrin	7440-66-5	ug/L	4/17/2017				<0.0337						
Dieldrin	7440-66-5	ug/L	3/30/2020	<0.0337	0.00309J	<0.0333		<0.034	<0.033		<0.0337	0.00433J	
Dieldrin	7440-66-5	ug/L	10/20/2021										<0.05
Dieldrin	7440-66-5	ug/L	5/2/2022				<0.05						
Diethyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Diethyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Diethyl phthalate	7440-66-6	ug/L	4/4/2011										<10
Diethyl phthalate	7440-66-6	ug/L	10/15/2014								<10		
Diethyl phthalate	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Diethyl phthalate	7440-66-6	ug/L	4/4/2016										<10.3
Diethyl phthalate	7440-66-6	ug/L	4/17/2017				<11						
Diethyl phthalate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Diethyl phthalate	7440-66-6	ug/L	10/20/2021										<8
Diethyl phthalate	7440-66-6	ug/L	5/2/2022				<8						
Dimethoate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Dimethoate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Dimethoate	7440-66-6	ug/L	4/4/2011										<10
Dimethoate	7440-66-6	ug/L	10/15/2014								<10		
Dimethoate	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Dimethoate	7440-66-6	ug/L	4/4/2016										<10.3
Dimethoate	7440-66-6	ug/L	4/17/2017				<11						
Dimethoate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Dimethoate	7440-66-6	ug/L	10/20/2021										<0.4
Dimethoate	7440-66-6	ug/L	5/2/2022				<0.4						

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Dimethyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Dimethyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Dimethyl phthalate	7440-66-6	ug/L	4/4/2011										<10
Dimethyl phthalate	7440-66-6	ug/L	10/15/2014								<10		
Dimethyl phthalate	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Dimethyl phthalate	7440-66-6	ug/L	4/4/2016										<10.3
Dimethyl phthalate	7440-66-6	ug/L	4/17/2017				<11						
Dimethyl phthalate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Dimethyl phthalate	7440-66-6	ug/L	10/20/2021										<8
Dimethyl phthalate	7440-66-6	ug/L	5/2/2022				<8						
Dimethylaminoazobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Dimethylaminoazobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Dimethylaminoazobenzene	7440-66-6	ug/L	4/4/2011										<10
Dimethylaminoazobenzene	7440-66-6	ug/L	10/15/2014								<10		
Dimethylaminoazobenzene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Dimethylaminoazobenzene	7440-66-6	ug/L	4/4/2016										<10.3
Dimethylaminoazobenzene	7440-66-6	ug/L	4/17/2017				<11						
Dimethylaminoazobenzene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Dimethylaminoazobenzene	7440-66-6	ug/L	10/20/2021										<8
Dimethylaminoazobenzene	7440-66-6	ug/L	5/2/2022				<8						
Di-n-butyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Di-n-butyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Di-n-butyl phthalate	7440-66-6	ug/L	4/4/2011										<10
Di-n-butyl phthalate	7440-66-6	ug/L	10/15/2014								<10		
Di-n-butyl phthalate	7440-66-6	ug/L	10/5/2015	<10.3	1.77J	1.31J		<10.3	<10.8		<10.9	<10	
Di-n-butyl phthalate	7440-66-6	ug/L	4/4/2016										<10.3
Di-n-butyl phthalate	7440-66-6	ug/L	4/17/2017				<11						
Di-n-butyl phthalate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Di-n-butyl phthalate	7440-66-6	ug/L	10/20/2021										<8
Di-n-butyl phthalate	7440-66-6	ug/L	5/2/2022				<8						
Di-n-octyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Di-n-octyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Di-n-octyl phthalate	7440-66-6	ug/L	4/4/2011										<10
Di-n-octyl phthalate	7440-66-6	ug/L	10/15/2014								<20		
Di-n-octyl phthalate	7440-66-6	ug/L	10/5/2015	<20.6	<20	<20		<20.6	<21.5		<21.7	<20	
Di-n-octyl phthalate	7440-66-6	ug/L	4/4/2016										<20.6
Di-n-octyl phthalate	7440-66-6	ug/L	4/17/2017				<22						
Di-n-octyl phthalate	7440-66-6	ug/L	3/30/2020	<20.8	<20.8	<20.4		<20.4	<20.6		<20.8	<20.8	
Di-n-octyl phthalate	7440-66-6	ug/L	10/20/2021										<8
Di-n-octyl phthalate	7440-66-6	ug/L	5/2/2022				<8						
Dinoseb	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Dinoseb	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Dinoseb	7440-66-6	ug/L	4/4/2011										<10
Dinoseb	7440-66-6	ug/L	10/15/2014								<10		
Dinoseb	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Dinoseb	7440-66-6	ug/L	4/4/2016										<10.3
Dinoseb	7440-66-6	ug/L	4/17/2017				<11						
Dinoseb	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Dinoseb	7440-66-6	ug/L	10/20/2021										<0.5
Dinoseb	7440-66-6	ug/L	5/2/2022				<0.5						
Diphenylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Diphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Diphenylamine	7440-66-6	ug/L	4/4/2011										<10
Diphenylamine	7440-66-6	ug/L	10/15/2014								<10		
Diphenylamine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Diphenylamine	7440-66-6	ug/L	4/4/2016										<10.3
Diphenylamine	7440-66-6	ug/L	4/17/2017				<11						
Diphenylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Diphenylamine	7440-66-6	ug/L	10/20/2021										<8
Diphenylamine	7440-66-6	ug/L	5/2/2022				<8						
Disulfoton	7440-66-6	ug/L	4/14/2009	<70	<70	<70	<70	<140	<70				
Disulfoton	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Disulfoton	7440-66-6	ug/L	4/4/2011										<10
Disulfoton	7440-66-6	ug/L	10/15/2014								<10		
Disulfoton	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Disulfoton	7440-66-6	ug/L	4/4/2016										<10.3
Disulfoton	7440-66-6	ug/L	4/17/2017				<11						
Disulfoton	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Disulfoton	7440-66-6	ug/L	10/20/2021										<0.4
Disulfoton	7440-66-6	ug/L	5/2/2022				<0.4						
Endosulfan I	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Endosulfan I	7440-66-6	ug/L	7/7/2009		<0.032	<0.032							
Endosulfan I	7440-66-6	ug/L	9/2/2009			<0.032							
Endosulfan I	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	<0.032
Endosulfan I	7440-66-6	ug/L	4/4/2011										
Endosulfan I	7440-66-6	ug/L	10/15/2014								0.00865J		
Endosulfan I	7440-66-6	ug/L	10/5/2015	<0.033	0.00225J	<0.032		<0.0323	<0.0327		0.00373J	<0.032	
Endosulfan I	7440-66-6	ug/L	4/4/2016										<0.0333
Endosulfan I	7440-66-6	ug/L	4/17/2017				<0.0337						
Endosulfan I	7440-66-6	ug/L	3/30/2020	<0.0337	0.00368J	<0.0333		<0.034	<0.033		<0.0337	<0.0337	
Endosulfan I	7440-66-6	ug/L	10/20/2021										<0.05
Endosulfan I	7440-66-6	ug/L	5/2/2022				<0.05						
Endosulfan II	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Endosulfan II	7440-66-6	ug/L	7/7/2009		<0.032	<0.032							
Endosulfan II	7440-66-6	ug/L	9/2/2009			<0.032							
Endosulfan II	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Endosulfan II	7440-66-6	ug/L	4/4/2011										<0.032
Endosulfan II	7440-66-6	ug/L	10/15/2014								0.0276J		
Endosulfan II	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	<0.032		<0.0323	<0.0327		<0.0381	<0.032	
Endosulfan II	7440-66-6	ug/L	4/4/2016										<0.0333
Endosulfan II	7440-66-6	ug/L	4/17/2017				<0.0337						
Endosulfan II	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.0333		0.00216J	<0.033		<0.0337	<0.0337	
Endosulfan II	7440-66-6	ug/L	10/20/2021										<0.05
Endosulfan II	7440-66-6	ug/L	5/2/2022				0.01J						
Endosulfan sulfate	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Endosulfan sulfate	7440-66-6	ug/L	7/7/2009		<0.032	<0.032							
Endosulfan sulfate	7440-66-6	ug/L	9/2/2009			<0.032							
Endosulfan sulfate	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Endosulfan sulfate	7440-66-6	ug/L	4/4/2011										<0.032
Endosulfan sulfate	7440-66-6	ug/L	10/15/2014								0.0028J		
Endosulfan sulfate	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	0.0193J		<0.0323	<0.0327		0.00358J	<0.032	
Endosulfan sulfate	7440-66-6	ug/L	4/4/2016										<0.0333
Endosulfan sulfate	7440-66-6	ug/L	4/17/2017				<0.0337						
Endosulfan sulfate	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	0.0308J		<0.034	<0.033		<0.0337	0.00377J	
Endosulfan sulfate	7440-66-6	ug/L	10/20/2021										<0.05
Endosulfan sulfate	7440-66-6	ug/L	5/2/2022				<0.05						
Endrin	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Endrin	7440-66-6	ug/L	7/7/2009		<0.032	<0.032							
Endrin	7440-66-6	ug/L	9/2/2009			<0.032							
Endrin	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Endrin	7440-66-6	ug/L	4/4/2011										<0.032
Endrin	7440-66-6	ug/L	10/15/2014								0.56		
Endrin	7440-66-6	ug/L	4/6/2015								0.0888		
Endrin	7440-66-6	ug/L	6/10/2015								0.0457		
Endrin	7440-66-6	ug/L	8/10/2015								0.119		
Endrin	7440-66-6	ug/L	9/14/2015								<0.032		
Endrin	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	<0.032		0.00529J	<0.0327		0.032J	<0.032	
Endrin	7440-66-6	ug/L	4/4/2016								0.122		0.0162J
Endrin	7440-66-6	ug/L	10/17/2016								<0.032		
Endrin	7440-66-6	ug/L	4/17/2017				<0.0337				0.0638		
Endrin	7440-66-6	ug/L	10/11/2017								0.00482J		
Endrin	7440-66-6	ug/L	4/24/2018								<0.0333		
Endrin	7440-66-6	ug/L	10/16/2018								0.00438J		
Endrin	7440-66-6	ug/L	4/16/2019								<0.0327		
Endrin	7440-66-6	ug/L	10/1/2019								0.00443J		
Endrin	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.0333		<0.034	<0.033		0.00763J	<0.0337	
Endrin	7440-66-6	ug/L	10/7/2020								<0.0356		
Endrin	7440-66-6	ug/L	4/13/2021								<0.05		
Endrin	7440-66-6	ug/L	10/20/2021										<0.05
Endrin	7440-66-6	ug/L	5/2/2022				<0.05				<0.05		
Endrin	7440-66-6	ug/L	5/1/2023								<0.0696		
Endrin	7440-66-6	ug/L	4/29/2024								<0.08		
Endrin aldehyde	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Endrin aldehyde	7440-66-6	ug/L	7/7/2009		<0.032	<0.032							
Endrin aldehyde	7440-66-6	ug/L	9/2/2009			<0.032							
Endrin aldehyde	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Endrin aldehyde	7440-66-6	ug/L	4/4/2011										<0.032
Endrin aldehyde	7440-66-6	ug/L	12/13/2012							<0.05			
Endrin aldehyde	7440-66-6	ug/L	10/15/2014								0.011J		
Endrin aldehyde	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	0.0106J		<0.0323	<0.0327		<0.0381	<0.032	
Endrin aldehyde	7440-66-6	ug/L	4/4/2016										0.00992J
Endrin aldehyde	7440-66-6	ug/L	4/17/2017				<0.0337						

Table 9A
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Endrin aldehyde	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.0333		<0.034	<0.033		<0.0337	<0.0337	
Endrin aldehyde	7440-66-6	ug/L	10/20/2021										<0.05
Endrin aldehyde	7440-66-6	ug/L	5/2/2022				0.01J						
Ethyl Methacrylate	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2	<2				
Ethyl Methacrylate	7440-66-6	ug/L	5/10/2010	<20	<20	<20	<20	<20	<20			<20	
Ethyl Methacrylate	7440-66-6	ug/L	4/4/2011										<2
Ethyl Methacrylate	7440-66-6	ug/L	10/15/2014								<2		
Ethyl Methacrylate	7440-66-6	ug/L	10/5/2015	<2	<2	<2		<2	<2		<2	<2	
Ethyl Methacrylate	7440-66-6	ug/L	4/4/2016										<2
Ethyl Methacrylate	7440-66-6	ug/L	4/17/2017				<2						
Ethyl Methacrylate	7440-66-6	ug/L	3/30/2020	<2	<2	<2		<2	<2		<2	<2	
Ethyl Methacrylate	7440-66-6	ug/L	10/20/2021										<10
Ethyl Methacrylate	7440-66-6	ug/L	5/2/2022				<10						
Ethyl Methanesulfonate	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Ethyl Methanesulfonate	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Ethyl Methanesulfonate	7440-66-5	ug/L	4/4/2011										<10
Ethyl Methanesulfonate	7440-66-5	ug/L	10/15/2014								<10		
Ethyl Methanesulfonate	7440-66-5	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Ethyl Methanesulfonate	7440-66-5	ug/L	4/4/2016										<10.3
Ethyl Methanesulfonate	7440-66-5	ug/L	4/17/2017				<11						
Ethyl Methanesulfonate	7440-66-5	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Ethyl Methanesulfonate	7440-66-5	ug/L	10/20/2021										<8
Ethyl Methanesulfonate	7440-66-5	ug/L	5/2/2022				<8						
Ethylbenzene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	7/7/2009								<1	<1	
Ethylbenzene	7440-66-6	ug/L	9/2/2009								<1	<1	
Ethylbenzene	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<1	<2		<2	<2	
Ethylbenzene	7440-66-6	ug/L	1/2/2010								<1	<1	
Ethylbenzene	7440-66-6	ug/L	3/3/2010								<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
Ethylbenzene	7440-66-6	ug/L	7/8/2010									<1	<1
Ethylbenzene	7440-66-6	ug/L	9/13/2010										<1
Ethylbenzene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
Ethylbenzene	7440-66-6	ug/L	4/4/2011										<1
Ethylbenzene	7440-66-5	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	12/5/2011						<1				
Ethylbenzene	7440-66-5	ug/L	4/1/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	6/25/2012						<1				
Ethylbenzene	7440-66-5	ug/L	8/1/2012						<1	<1			
Ethylbenzene	7440-66-5	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	12/13/2012						<1	<1			
Ethylbenzene	7440-66-5	ug/L	2/4/2013						<1	<1			
Ethylbenzene	7440-66-5	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	4/20/2018										
Ethylbenzene	7440-66-5	ug/L	4/24/2018				<1	<1			<1		
Ethylbenzene	7440-66-5	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
Ethylbenzene	7440-66-5	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-5	ug/L	10/20/2021						<1				<1
Ethylbenzene	7440-66-5	ug/L	5/2/2022				<1		<1	<1			<1
Ethylbenzene	7440-66-5	ug/L	10/14/2022						<1				<1
Ethylbenzene	7440-66-5	ug/L	5/1/2023				<1		<1	<1		<1	<1
Ethylbenzene	7440-66-5	ug/L	10/16/2023						<1				<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Ethylbenzene	7440-66-6	ug/L	4/29/2024						<1	<1			<1
Ethylbenzene	7440-66-6	ug/L	10/10/2024										<1.00
Ethylbenzene	7440-66-6	ug/L	10/11/2024						<1.00				
Famphur	7440-66-6	ug/L	4/14/2009	<20	<20	<20	<20	<40					
Famphur	7440-66-6	ug/L	5/10/2010	<20	<20	<20	<20	<20	<20			<20	
Famphur	7440-66-6	ug/L	4/4/2011										<20
Famphur	7440-66-6	ug/L	10/15/2014								<20		
Famphur	7440-66-6	ug/L	10/5/2015	<20.6	<20	<20		<20.6	<21.5		<21.7	<20	
Famphur	7440-66-6	ug/L	4/4/2016										<20.6
Famphur	7440-66-6	ug/L	4/17/2017				<22						
Famphur	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Famphur	7440-66-6	ug/L	10/20/2021										<0.4
Famphur	7440-66-6	ug/L	5/2/2022				<0.4						
Fluoranthene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Fluoranthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Fluoranthene	7440-66-6	ug/L	4/4/2011										<10
Fluoranthene	7440-66-6	ug/L	10/15/2014								<10		
Fluoranthene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Fluoranthene	7440-66-6	ug/L	4/4/2016										<10.3
Fluoranthene	7440-66-6	ug/L	4/17/2017				<11						
Fluoranthene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Fluoranthene	7440-66-6	ug/L	10/20/2021										<8
Fluoranthene	7440-66-6	ug/L	5/2/2022				<8						
Fluorene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Fluorene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Fluorene	7440-66-6	ug/L	4/4/2011										<10
Fluorene	7440-66-6	ug/L	10/15/2014								<10		
Fluorene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Fluorene	7440-66-6	ug/L	4/4/2016										<10.3
Fluorene	7440-66-6	ug/L	4/17/2017				<11						
Fluorene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Fluorene	7440-66-6	ug/L	10/20/2021										<8
Fluorene	7440-66-6	ug/L	5/2/2022				<8						
Gamma-BHC [Lindane]	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Gamma-BHC [Lindane]	7440-66-6	ug/L	7/7/2009		<0.032			<0.032					
Gamma-BHC [Lindane]	7440-66-6	ug/L	9/2/2009			<0.032							
Gamma-BHC [Lindane]	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Gamma-BHC [Lindane]	7440-66-6	ug/L	4/4/2011										<0.032
Gamma-BHC [Lindane]	7440-66-6	ug/L	10/15/2014								<0.032		
Gamma-BHC [Lindane]	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	<0.032		<0.0323	<0.0327		<0.0381	<0.032	
Gamma-BHC [Lindane]	7440-66-6	ug/L	4/4/2016										<0.0333
Gamma-BHC [Lindane]	7440-66-6	ug/L	4/17/2017				<0.0337						
Gamma-BHC [Lindane]	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	0.00302J		0.0037J	<0.033		<0.0337	<0.0337	
Gamma-BHC [Lindane]	7440-66-6	ug/L	10/20/2021										<0.05
Gamma-BHC [Lindane]	7440-66-6	ug/L	5/2/2022				<0.05						
Heptachlor	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Heptachlor	7440-66-6	ug/L	7/7/2009		<0.032	<0.032							
Heptachlor	7440-66-6	ug/L	9/2/2009			<0.032							
Heptachlor	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Heptachlor	7440-66-6	ug/L	7/8/2010								<0.032		
Heptachlor	7440-66-6	ug/L	9/13/2010								<0.032		
Heptachlor	7440-66-6	ug/L	11/1/2010								<0.032		
Heptachlor	7440-66-6	ug/L	1/10/2011								<0.032		
Heptachlor	7440-66-6	ug/L	4/4/2011								<0.032		<0.032
Heptachlor	7440-66-6	ug/L	4/11/2012								<0.032		
Heptachlor	7440-66-6	ug/L	10/11/2012								<0.032		
Heptachlor	7440-66-6	ug/L	12/13/2012										
Heptachlor	7440-66-6	ug/L	10/15/2014							<0.05			
Heptachlor	7440-66-6	ug/L	10/5/2015	0.00368J	<0.032	<0.032		0.0046J	<0.0327		0.0373J	<0.032	
Heptachlor	7440-66-6	ug/L	4/4/2016										<0.0333
Heptachlor	7440-66-6	ug/L	4/17/2017				<0.0337						
Heptachlor	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.0333		<0.034	<0.033		0.00999J	<0.0337	
Heptachlor	7440-66-6	ug/L	10/20/2021										<0.05
Heptachlor	7440-66-6	ug/L	5/2/2022				<0.05						
Heptachlor Epoxide	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Heptachlor Epoxide	7440-66-6	ug/L	7/7/2009		<0.032	<0.032							
Heptachlor Epoxide	7440-66-6	ug/L	9/2/2009			<0.032							
Heptachlor Epoxide	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Heptachlor Epoxide	7440-66-6	ug/L	4/4/2011										<0.032
Heptachlor Epoxide	7440-66-6	ug/L	10/15/2014								0.00711J		
Heptachlor Epoxide	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	<0.032		<0.0323	<0.0327		<0.0381	<0.032	

Table 9A
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Heptachlor Epoxide	7440-66-6	ug/L	4/4/2016										<0.0333
Heptachlor Epoxide	7440-66-6	ug/L	4/17/2017				<0.0337						
Heptachlor Epoxide	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.0333		<0.034	<0.033		<0.0337	<0.0337	
Heptachlor Epoxide	7440-66-6	ug/L	10/20/2021										<0.05
Heptachlor Epoxide	7440-66-6	ug/L	5/2/2022				<0.05						
Hexachlorobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Hexachlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Hexachlorobenzene	7440-66-6	ug/L	4/4/2011										<10
Hexachlorobenzene	7440-66-6	ug/L	10/15/2014								<10		
Hexachlorobenzene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Hexachlorobenzene	7440-66-6	ug/L	4/4/2016										<10.3
Hexachlorobenzene	7440-66-6	ug/L	4/17/2017				<11						
Hexachlorobenzene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Hexachlorobenzene	7440-66-6	ug/L	10/20/2021										<0.05
Hexachlorobenzene	7440-66-6	ug/L	5/2/2022				<0.05						
Hexachlorobutadiene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Hexachlorobutadiene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Hexachlorobutadiene	7440-66-6	ug/L	4/4/2011										<10
Hexachlorobutadiene	7440-66-6	ug/L	10/15/2014								<10		
Hexachlorobutadiene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Hexachlorobutadiene	7440-66-6	ug/L	4/4/2016										<10.3
Hexachlorobutadiene	7440-66-6	ug/L	4/17/2017				<11						
Hexachlorobutadiene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Hexachlorobutadiene	7440-66-6	ug/L	10/20/2021										<8
Hexachlorobutadiene	7440-66-6	ug/L	5/2/2022				<8						
Hexachlorocyclopentadiene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Hexachlorocyclopentadiene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Hexachlorocyclopentadiene	7440-66-6	ug/L	4/4/2011										<10
Hexachlorocyclopentadiene	7440-66-6	ug/L	10/15/2014								<20		
Hexachlorocyclopentadiene	7440-66-6	ug/L	10/5/2015	<20.6	<20	<20		<20.6	<21.5		<21.7	<20	
Hexachlorocyclopentadiene	7440-66-6	ug/L	4/4/2016										<20.6
Hexachlorocyclopentadiene	7440-66-6	ug/L	4/17/2017				<22						
Hexachlorocyclopentadiene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Hexachlorocyclopentadiene	7440-66-6	ug/L	10/20/2021										<8
Hexachlorocyclopentadiene	7440-66-6	ug/L	5/2/2022				<8						
Hexachloroethane	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Hexachloroethane	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Hexachloroethane	7440-66-6	ug/L	4/4/2011										<10
Hexachloroethane	7440-66-6	ug/L	10/15/2014								<10		
Hexachloroethane	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Hexachloroethane	7440-66-6	ug/L	4/4/2016										<10.3
Hexachloroethane	7440-66-6	ug/L	4/17/2017				<11						
Hexachloroethane	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Hexachloroethane	7440-66-6	ug/L	10/20/2021										<8
Hexachloroethane	7440-66-6	ug/L	5/2/2022				<8						
Hexachloropropene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Hexachloropropene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Hexachloropropene	7440-66-6	ug/L	4/4/2011										<10
Hexachloropropene	7440-66-6	ug/L	10/15/2014								<10		
Hexachloropropene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Hexachloropropene	7440-66-6	ug/L	4/4/2016										<10.3
Hexachloropropene	7440-66-6	ug/L	4/17/2017				<11						
Hexachloropropene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Hexachloropropene	7440-66-6	ug/L	10/20/2021										<8
Hexachloropropene	7440-66-6	ug/L	5/2/2022				<8						
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	4/4/2011										<10
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	10/15/2014								<10		
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	4/4/2016										<10.3
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	4/17/2017				<11						
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	10/20/2021										<8
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	5/2/2022				<8						
Iodomethane	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10				
Iodomethane	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10				
Iodomethane	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10				
Iodomethane	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10				
Iodomethane	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10				
Iodomethane	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10				

Table 9A
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Iodomethane	7440-66-6	ug/L	7/7/2009								<20	<20	
Iodomethane	7440-66-6	ug/L	9/2/2009								<10	<10	
Iodomethane	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<50	<10		<10	<10	
Iodomethane	7440-66-6	ug/L	1/2/2010								<10	<10	
Iodomethane	7440-66-6	ug/L	3/3/2010								<10	<10	<10
Iodomethane	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	<10
Iodomethane	7440-66-6	ug/L	7/8/2010										<10
Iodomethane	7440-66-6	ug/L	9/13/2010										<20
Iodomethane	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10			<10	<10	
Iodomethane	7440-66-6	ug/L	4/4/2011										<10
Iodomethane	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10			<10	<10	<10
Iodomethane	7440-66-6	ug/L	12/5/2011						<20				
Iodomethane	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10		<10	<10	<10
Iodomethane	7440-66-6	ug/L	6/25/2012						<10				
Iodomethane	7440-66-6	ug/L	8/1/2012						<10	<10			
Iodomethane	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	12/13/2012						<10	<10			
Iodomethane	7440-66-6	ug/L	2/4/2013						<10	<10			
Iodomethane	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/7/2013	<10	<10		<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/20/2018						<10				
Iodomethane	7440-66-6	ug/L	4/24/2018				<10	<10			<10		
Iodomethane	7440-66-6	ug/L	4/25/2018	<10	<10	<10				<10		<10	<10
Iodomethane	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	7440-66-6	ug/L	10/20/2021						<1	<1			<2
Iodomethane	7440-66-6	ug/L	5/2/2022				<2		<1	<1			<1
Iodomethane	7440-66-6	ug/L	5/1/2023				<10		<10	<10		<10	<10
Iodomethane	7440-66-6	ug/L	10/16/2023						<10				<10
Iodomethane	7440-66-6	ug/L	4/29/2024						<10	<10			<10
Iodomethane	7440-66-6	ug/L	10/10/2024										<10.0
Iodomethane	7440-66-6	ug/L	10/11/2024						<10.0				
Iron, Total	7440-66-6	mg/L	4/6/2015	0.526	18.3	36.2	3.8	3.32	0.481	<0.1	5.08	0.754	0.125
Iron, Total	7440-66-6	mg/L	10/5/2015	0.362	16.8	44.4	3.9	2.45	2.61	<0.1	0.855	3.31	0.0703J
Iron, Total	7440-66-6	mg/L	4/4/2016	0.326	13.2	25	3.52	3.07	1.07	0.852	6.49	0.355	<0.1
Iron, Total	7440-66-6	mg/L	10/17/2016	1.02	14.5	28.3	3.68	2.38	0.343	<0.1	5.34	6.3	0.12
Iron, Total	7440-66-6	mg/L	5/2/2022										22.1
Iron, Total	7440-66-6	mg/L	5/1/2023										70.8
Iron, Total	7440-66-6	mg/L	4/29/2024										36.3
Isobutanol	7440-66-6	mg/L	4/14/2009	<10	<10	<10	<10	<10	<10				
Isobutanol	7440-66-6	mg/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Isobutanol	7440-66-6	mg/L	4/4/2011										<10
Isobutanol	7440-66-6	mg/L	10/15/2014								<10		
Isobutanol	7440-66-6	mg/L	10/5/2015	<10	<10	<10		<10	<10		<10	<10	
Isobutanol	7440-66-6	mg/L	4/4/2016										<10
Isobutanol	7440-66-6	mg/L	4/17/2017				<10						
Isobutanol	7440-66-6	mg/L	3/30/2020	<10	<10	<10	<10	<10	<10		<10	<10	
Isobutanol	7440-66-6	mg/L	10/20/2021										<1
Isobutanol	7440-66-6	mg/L	5/2/2022				<1						
Isodrin	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Isodrin	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Isodrin	7440-66-6	ug/L	4/4/2011										<10
Isodrin	7440-66-6	ug/L	10/15/2014								<10		
Isodrin	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Isodrin	7440-66-6	ug/L	4/4/2016										<10.3
Isodrin	7440-66-6	ug/L	4/17/2017				<11						
Isodrin	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Isodrin	7440-66-6	ug/L	10/20/2021										<8
Isodrin	7440-66-6	ug/L	5/2/2022				<8						

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Isophorone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Isophorone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Isophorone	7440-66-6	ug/L	4/4/2011										<10
Isophorone	7440-66-6	ug/L	10/15/2014								<10		
Isophorone	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Isophorone	7440-66-6	ug/L	4/4/2016										<10.3
Isophorone	7440-66-6	ug/L	4/17/2017				<11						
Isophorone	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Isophorone	7440-66-6	ug/L	10/20/2021										<8
Isophorone	7440-66-6	ug/L	5/2/2022				<8						
Isosafrole	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Isosafrole	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Isosafrole	7440-66-6	ug/L	4/4/2011										<10
Isosafrole	7440-66-6	ug/L	10/15/2014								<10		
Isosafrole	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Isosafrole	7440-66-6	ug/L	4/4/2016										<10.3
Isosafrole	7440-66-6	ug/L	4/17/2017				<11						
Isosafrole	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Isosafrole	7440-66-6	ug/L	10/20/2021										<8
Isosafrole	7440-66-6	ug/L	5/2/2022				<8						
Kepone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Kepone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Kepone	7440-66-6	ug/L	4/4/2011										<10
Kepone	7440-66-6	ug/L	10/15/2014								<10		
Kepone	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Kepone	7440-66-6	ug/L	4/4/2016										<10.3
Kepone	7440-66-6	ug/L	4/17/2017				<11						
Kepone	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Kepone	7440-66-6	ug/L	10/20/2021										<8
Kepone	7440-66-6	ug/L	5/2/2022				<8						
Lead	7440-66-6	mg/L	2/27/2008	<0.005	0.011	0.018	<0.005	<0.005	0.018				
Lead	7440-66-6	mg/L	5/12/2008	<0.005	0.041	0.013	<0.005	<0.005	<0.005				
Lead	7440-66-6	mg/L	7/13/2008	0.007	0.017	0.014	<0.005	<0.005	0.011				
Lead	7440-66-6	mg/L	9/14/2008	<0.005	0.018	0.039	<0.005	<0.005	<0.005				
Lead	7440-66-6	mg/L	11/17/2008	0.00892	0.0146	0.0131	<0.004	<0.004	<0.004				
Lead	7440-66-6	mg/L	4/14/2009	<0.005	0.014; 0.015	0.03	<0.005	<0.005	<0.005				
Lead	7440-66-6	mg/L	7/7/2009		0.014	<0.005					<0.005	<0.005	
Lead	7440-66-6	mg/L	9/2/2009		0.021	0.0067					<0.005; <0.004	<0.005	<0.002
Lead	7440-66-6	mg/L	10/25/2009	<0.005	0.023	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	
Lead	7440-66-6	mg/L	1/2/2010		0.0057; <0.005	<0.005					<0.005	<0.005	
Lead	7440-66-6	mg/L	3/3/2010								<0.005	<0.005	<0.005
Lead	7440-66-6	mg/L	5/10/2010	<0.002	0.0036	0.063	<0.002	<0.002	<0.002			0.0023	<0.002
Lead	7440-66-6	mg/L	7/8/2010								<0.005	<0.005	<0.005
Lead	7440-66-6	mg/L	9/13/2010								<0.005	<0.005	<0.005
Lead	7440-66-6	mg/L	11/1/2010								<0.005	<0.005	
Lead	7440-66-6	mg/L	1/10/2011								<0.004	<0.004	
Lead	7440-66-6	mg/L	4/4/2011								<0.005	<0.005	<0.004
Lead	7440-66-6	mg/L	7/8/2011										<0.005
Lead	7440-66-6	mg/L	8/11/2011										<0.005
Lead	7440-66-6	mg/L	10/13/2011	<0.004	<0.004	<0.004	<0.004	<0.004			<0.004	0.00912	0.00926
Lead	7440-66-6	mg/L	12/5/2011						<0.004				
Lead	7440-66-6	mg/L	4/11/2012	<0.004	0.00567	<0.004	<0.004	<0.004	0.00574		<0.004	<0.004	<0.004
Lead	7440-66-6	mg/L	6/25/2012						<0.004				
Lead	7440-66-6	mg/L	8/1/2012						<0.004	0.0128			
Lead	7440-66-6	mg/L	10/11/2012	<0.004	<0.004	0.0132	<0.004	<0.004	<0.004	<0.004	<0.004	0.00622	0.04
Lead	7440-66-6	mg/L	12/13/2012						<0.004	<0.004			
Lead	7440-66-6	mg/L	3/30/2013	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead	7440-66-6	mg/L	10/7/2013	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.00544	<0.004	0.0112
Lead	7440-66-6	mg/L	6/2/2014	0.00219J	<0.004	<0.004	<0.004	<0.004	0.00692	<0.004	0.00141J	<0.004	<0.004
Lead	7440-66-6	mg/L	10/15/2014	<0.004	0.00152J	<0.004	<0.004	<0.004	0.00273J	<0.004	<0.004	<0.004	<0.004
Lead	7440-66-6	mg/L	4/6/2015	0.000202J	<0.0005	<0.0005	<0.0005	<0.0005	0.000457J	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	10/5/2015	0.000371J	<0.0005	<0.0005	<0.0005	<0.0005	0.00677	<0.0005	<0.0005	0.00141	<0.0005
Lead	7440-66-6	mg/L	4/4/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00045J	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	10/17/2016	0.000707	<0.0005	<0.0005	<0.0005	<0.0005	0.000622	<0.0005	<0.0005	0.00181	<0.0005
Lead	7440-66-6	mg/L	4/17/2017	0.000497J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000766	<0.0005
Lead	7440-66-6	mg/L	10/11/2017	<0.0005	<0.0005	0.00114	<0.0005	<0.0005	0.00528	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	4/20/2018						0.000829				
Lead	7440-66-6	mg/L	4/24/2018				0.00135	<0.0005			<0.0005		
Lead	7440-66-6	mg/L	4/25/2018	0.00176	<0.002	0.000418J				<0.0005		<0.0005	<0.0005
Lead	7440-66-6	mg/L	10/16/2018	0.000968	0.000279J; 0.000323J	0.000209J	<0.0005	<0.0005	0.00255	0.00833	<0.0005	0.000331J	0.000375J
Lead	7440-66-6	mg/L	4/16/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000728	0.000334J	<0.0005	0.000842	<0.0005

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Lead	7440-66-6	mg/L	10/1/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000704; 0.000591	<0.0005	0.000275J	0.000282J	<0.0005
Lead	7440-66-6	mg/L	3/30/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000547	<0.0005	<0.0005	0.00243	<0.0005
Lead	7440-66-6	mg/L	10/7/2020	0.000347J	<0.0005	<0.0005	<0.0005	<0.0005	0.000388J	0.000517	<0.0005	0.000817; 0.000437J	<0.0005
Lead	7440-66-6	mg/L	4/13/2021	0.0007J	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0019J	<0.004
Lead	7440-66-6	mg/L	10/20/2021						0.0007J; 0.0018J				<0.004
Lead	7440-66-6	mg/L	5/2/2022	<0.004	<0.004	0.0016J	<0.004	<0.004	0.002J	0.0016J	<0.004	0.0008J	<0.004
Lead	7440-66-6	mg/L	10/14/2022						0.0031J; 0.0019J				<0.004
Lead	7440-66-6	mg/L	5/1/2023	0.000261J	<0.0005	0.000315J	<0.0005	<0.0005	0.000902	0.000999	<0.0005	0.000371J	<0.0005
Lead	7440-66-6	mg/L	10/16/2023						<0.0005; 0.00028J				<0.0005
Lead	7440-66-6	mg/L	4/29/2024	<0.0005	<0.0005	0.00101	<0.0005	<0.0005	0.000441J	<0.0005	<0.0005	<0.0005	0.000295J
Lead	7440-66-6	mg/L	10/10/2024										<0.000500
Lead	7440-66-6	mg/L	10/11/2024						0.000439J				
m/p-Cresol	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
m/p-Cresol	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
m/p-Cresol	7440-66-5	ug/L	4/4/2011										<10
m/p-Cresol	7440-66-5	ug/L	10/15/2014								<10		
m/p-Cresol	7440-66-5	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
m/p-Cresol	7440-66-5	ug/L	4/4/2016										<10.3
m/p-Cresol	7440-66-5	ug/L	4/17/2017				<11						
m/p-Cresol	7440-66-5	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
m/p-Cresol	7440-66-5	ug/L	10/20/2021										<8
m/p-Cresol	7440-66-5	ug/L	5/2/2022				<8						
Magnesium	7440-66-6	mg/L	6/2/2014	19.2	42.4	67	64.7	56.7	33.9	9.47	70.8	38.1	44.1
Magnesium	7440-66-6	mg/L	10/15/2014	15.7	41.7	78.6	67	66.4	38.3	9.37	81.9	51.8	44.8
Magnesium	7440-66-6	mg/L	3/30/2020								76.6		
Manganese	7440-66-6	mg/L	4/6/2015	1.44	1.35	3.32	3.82	1.15	0.022	0.0174	5.5	0.964	2.05
Manganese	7440-66-6	mg/L	10/5/2015	0.446	1.28	3.21	3.85	1.41	0.511	0.112	2.81	0.939	2.8
Manganese	7440-66-6	mg/L	4/4/2016	0.134	1.13	2.87	3.22	1.22	0.0764	0.0319	11.5	0.799	3.33
Manganese	7440-66-6	mg/L	10/17/2016	0.389	1.18	2.44	3.98	1.47	0.0481	0.0604	4.81	0.754	3.55
Manganese	7440-66-6	mg/L	5/2/2022										13.1
Manganese	7440-66-6	mg/L	5/1/2023										11.8
Manganese	7440-66-6	mg/L	4/29/2024										10.2
Mercury	7440-66-6	mg/L	4/14/2009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
Mercury	7440-66-6	mg/L	5/10/2010	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	
Mercury	7440-66-6	mg/L	4/4/2011										<0.0002
Mercury	7440-66-6	mg/L	10/15/2014								<0.0002		
Mercury	7440-66-6	mg/L	10/5/2015	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	
Mercury	7440-66-6	mg/L	4/4/2016										<0.0002
Mercury	7440-66-6	mg/L	4/17/2017				<0.0002						
Mercury	7440-66-6	mg/L	3/30/2020	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	
Mercury	7440-66-6	mg/L	10/20/2021										<0.0005
Mercury	7440-66-6	mg/L	5/2/2022				<0.0005						
Methacrylonitrile	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Methacrylonitrile	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	
Methacrylonitrile	7440-66-6	ug/L	4/4/2011										<1
Methacrylonitrile	7440-66-6	ug/L	10/15/2014								<10		
Methacrylonitrile	7440-66-6	ug/L	10/5/2015	<10	<10	<10		<10	<10		<10	<10	
Methacrylonitrile	7440-66-6	ug/L	4/4/2016										<10
Methacrylonitrile	7440-66-6	ug/L	4/17/2017				<10						
Methacrylonitrile	7440-66-6	ug/L	3/30/2020	<10	<10	<10		<10	<10		<10	<10	
Methacrylonitrile	7440-66-6	ug/L	10/20/2021										<1
Methacrylonitrile	7440-66-6	ug/L	5/2/2022				<1						
Methane, Dissolved	7440-66-6	mg/L	4/6/2015	0.0091	1.71	33.7	0.0339	0.0188	0.00746	0.00338J	0.593	0.0074	0.00769
Methane, Dissolved	7440-66-6	mg/L	10/5/2015	0.0304	1.7	1.82	0.0395	0.0328	0.00931	0.00554	0.00209	0.00568	0.00603
Methane, Dissolved	7440-66-6	mg/L	4/4/2016	0.00188	1.86	4.61	0.0344	0.00599	0.00722	<0.00058	1.74	0.00635	0.0094
Methane, Dissolved	7440-66-6	mg/L	10/17/2016	0.0642	0.000414J	1.82	0.0235	0.0146	0.0031	<0.00058	0.167	0.00504	0.00315
Methapyrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Methapyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Methapyrene	7440-66-6	ug/L	4/4/2011										<10
Methapyrene	7440-66-6	ug/L	10/15/2014								<10		
Methapyrene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Methapyrene	7440-66-6	ug/L	4/4/2016										<10.3
Methapyrene	7440-66-6	ug/L	4/17/2017				<11						
Methapyrene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Methapyrene	7440-66-6	ug/L	10/20/2021										<8
Methapyrene	7440-66-6	ug/L	5/2/2022				<8						
Methoxychlor	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032				
Methoxychlor	7440-66-6	ug/L	7/7/2009		<0.032	<0.032							
Methoxychlor	7440-66-6	ug/L	9/2/2009			<0.032							
Methoxychlor	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032			<0.032	
Methoxychlor	7440-66-6	ug/L	4/4/2011										<0.032

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Methoxychlor	7440-66-6	ug/L	10/15/2014								0.0238J		
Methoxychlor	7440-66-6	ug/L	10/5/2015	<0.033	<0.032	<0.032		<0.0323	<0.0327		<0.0381	<0.032	
Methoxychlor	7440-66-6	ug/L	4/4/2016										0.00295J
Methoxychlor	7440-66-6	ug/L	4/17/2017				<0.0337						
Methoxychlor	7440-66-6	ug/L	3/30/2020	<0.0337	<0.0333	<0.0333		<0.034	<0.033		<0.0337	<0.0337	
Methoxychlor	7440-66-6	ug/L	10/20/2021										<0.05
Methoxychlor	7440-66-6	ug/L	5/2/2022				<0.05						
Methyl Methacrylate	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2	<2				
Methyl Methacrylate	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5			<5	
Methyl Methacrylate	7440-66-6	ug/L	4/4/2011										<2
Methyl Methacrylate	7440-66-6	ug/L	10/15/2014								<2		
Methyl Methacrylate	7440-66-6	ug/L	10/5/2015	<2	<2	<2		<2	<2		<2	<2	
Methyl Methacrylate	7440-66-6	ug/L	4/4/2016										<2
Methyl Methacrylate	7440-66-6	ug/L	4/17/2017				<2						
Methyl Methacrylate	7440-66-6	ug/L	3/30/2020	<2	<2	<2		<2	<2		<2	<2	
Methyl Methacrylate	7440-66-6	ug/L	10/20/2021										<1
Methyl Methacrylate	7440-66-6	ug/L	5/2/2022				<1						
Methyl Methanesulfonate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Methyl Methanesulfonate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Methyl Methanesulfonate	7440-66-6	ug/L	4/4/2011										<10
Methyl Methanesulfonate	7440-66-6	ug/L	10/15/2014								<10		
Methyl Methanesulfonate	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Methyl Methanesulfonate	7440-66-6	ug/L	4/4/2016										<10.3
Methyl Methanesulfonate	7440-66-6	ug/L	4/17/2017				<11						
Methyl Methanesulfonate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Methyl Methanesulfonate	7440-66-6	ug/L	10/20/2021										<8
Methyl Methanesulfonate	7440-66-6	ug/L	5/2/2022				<8						
Methylene Chloride	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	7/7/2009										
Methylene Chloride	7440-66-6	ug/L	9/2/2009								<5	<5	
Methylene Chloride	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<5	<5		<5	<5	
Methylene Chloride	7440-66-6	ug/L	1/2/2010								<5	<5	
Methylene Chloride	7440-66-6	ug/L	3/3/2010								<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5		<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	7/8/2010										<5
Methylene Chloride	7440-66-6	ug/L	9/13/2010										<5
Methylene Chloride	7440-66-6	ug/L	11/1/2010	<5	<5	<5	<5	<5			<5	<5	
Methylene Chloride	7440-66-6	ug/L	4/4/2011										<5
Methylene Chloride	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5			<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	12/5/2011						<5				
Methylene Chloride	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5		<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	6/25/2012						<5				
Methylene Chloride	7440-66-6	ug/L	8/1/2012						<5	<5			
Methylene Chloride	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	12/13/2012						<5	<5			
Methylene Chloride	7440-66-6	ug/L	2/4/2013						<5	<5			
Methylene Chloride	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/7/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/6/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/5/2015	0.713J	0.664J	0.725J		0.564J	0.356J	<5	<5	0.599J	<5
Methylene Chloride	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	0.183J	<5	<5; 0.277J	<5
Methylene Chloride	7440-66-6	ug/L	10/17/2016	0.34J	0.73J	0.402J	0.602J	0.403J; 0.587J	0.369J	0.6J	0.21J	0.473J	0.582J
Methylene Chloride	7440-66-6	ug/L	4/17/2017	0.25J	0.323J; 0.345J	0.446J	0.525J	0.59J	0.567J	0.26J	0.43J	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/11/2017	<5	<5; 0.181J	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/20/2018						0.489J				
Methylene Chloride	7440-66-6	ug/L	4/24/2018				0.365J	0.584J			0.39J		
Methylene Chloride	7440-66-6	ug/L	4/25/2018	0.455J	0.5J	0.287J				0.395J		0.46J	0.238J; 0.301J
Methylene Chloride	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/20/2021						<5				<5

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Methylene Chloride	7440-66-6	ug/L	5/2/2022				<5		<5	<5			<5
Methylene Chloride	7440-66-6	ug/L	10/14/2022						<5				<5
Methylene Chloride	7440-66-6	ug/L	5/1/2023				<5		<5	<5		<5	<5
Methylene Chloride	7440-66-6	ug/L	10/16/2023						<5				<5
Methylene Chloride	7440-66-6	ug/L	4/29/2024						<5	<5			<5
Methylene Chloride	7440-66-6	ug/L	10/10/2024										<5.00
Methylene Chloride	7440-66-6	ug/L	10/11/2024						<5.00				
Naphthalene	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5					
Naphthalene	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5				<5	
Naphthalene	7440-66-6	ug/L	4/4/2011										<5
Naphthalene	7440-66-6	ug/L	10/15/2014								<5		
Naphthalene	7440-66-6	ug/L	10/5/2015	<5	<5	<5		<5	<5	<5		<5	
Naphthalene	7440-66-6	ug/L	4/4/2016				<5						<5
Naphthalene	7440-66-6	ug/L	4/17/2017										
Naphthalene	7440-66-6	ug/L	3/30/2020	<5	<5	<5		<5	<5	<5		<5	
Naphthalene	7440-66-6	ug/L	10/20/2021										<8
Naphthalene	7440-66-6	ug/L	5/2/2022				<8						
Nickel	7440-66-6	mg/L	2/27/2008	<0.01	0.019	0.027	0.015	<0.01	0.038				
Nickel	7440-66-6	mg/L	5/12/2008	<0.01	0.058	0.027	0.014	<0.01					
Nickel	7440-66-6	mg/L	7/13/2008	<0.01	0.025	0.022	0.012	<0.01	0.023				
Nickel	7440-66-6	mg/L	9/14/2008	<0.01	0.029	0.046	0.012	<0.01					
Nickel	7440-66-6	mg/L	11/17/2008	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Nickel	7440-66-6	mg/L	4/14/2009	<0.01	0.024; 0.023	0.046	0.013	0.042	<0.01				
Nickel	7440-66-6	mg/L	7/7/2009		0.018; 0.02	0.01	0.012	<0.01			0.02	0.021	
Nickel	7440-66-6	mg/L	9/2/2009		0.032; 0.033	0.018	0.016	0.012			0.022	0.02	
Nickel	7440-66-6	mg/L	10/25/2009	<0.01	0.034	0.013	0.013	0.011	<0.01		0.019	0.023	
Nickel	7440-66-6	mg/L	1/2/2010		<0.01; 0.011	<0.01	0.014	0.011; 0.013			0.024	0.019	
Nickel	7440-66-6	mg/L	3/3/2010								0.024	0.019	0.045
Nickel	7440-66-6	mg/L	5/10/2010	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
Nickel	7440-66-6	mg/L	7/8/2010										0.045
Nickel	7440-66-6	mg/L	9/13/2010										0.037
Nickel	7440-66-6	mg/L	11/1/2010								0.013	0.016	
Nickel	7440-66-6	mg/L	4/4/2011								<0.01	<0.01	0.0522
Nickel	7440-66-6	mg/L	7/8/2011										0.035
Nickel	7440-66-6	mg/L	8/11/2011										0.067
Nickel	7440-66-6	mg/L	10/13/2011	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05	<0.05
Nickel	7440-66-6	mg/L	12/5/2011						<0.05				<0.05
Nickel	7440-66-6	mg/L	4/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
Nickel	7440-66-6	mg/L	6/25/2012						<0.05				
Nickel	7440-66-6	mg/L	8/1/2012						<0.05	<0.05			
Nickel	7440-66-6	mg/L	10/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.136
Nickel	7440-66-6	mg/L	12/13/2012						<0.05	<0.05			
Nickel	7440-66-6	mg/L	3/30/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	7440-66-6	mg/L	10/7/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0648
Nickel	7440-66-6	mg/L	6/2/2014	<0.05	<0.05	0.0106J	0.0162J	<0.05	0.0199J	<0.05	0.0207J	0.0112J	0.028J
Nickel	7440-66-6	mg/L	10/15/2014	<0.05	0.0138J	0.024J	0.0218J	0.0192J	0.0222J	0.0079J	0.037J	0.026J	0.0386J
Nickel	7440-66-6	mg/L	4/6/2015	0.006	0.0018J	0.00928		0.0105	0.00108J	0.00195J	0.0238	0.0173	0.0282
Nickel	7440-66-6	mg/L	10/5/2015	0.00764	0.00174J	0.00885		0.00884	0.0148	0.00343J	0.0243	0.0178	0.0317; 0.0319
Nickel	7440-66-6	mg/L	4/4/2016	0.00261J	0.00191J	0.00445J	0.00926	0.0085	<0.005	0.00234J	0.03	0.017; 0.0178	0.0329
Nickel	7440-66-6	mg/L	10/17/2016	0.00454J	0.00227J	0.00398J	0.00986	0.00712; 0.00688	0.00159J	0.00301J	0.0234	0.0166	0.0345
Nickel	7440-66-6	mg/L	4/17/2017	0.002J	<0.005; 0.00125J	0.00298J	0.0109	0.0106	<0.005	0.00309J	0.00813	0.0198	0.0328
Nickel	7440-66-6	mg/L	10/11/2017	0.00366J	0.00136J; 0.00163J	0.00535	0.0126	0.00725	0.0126	0.00457J	0.0222	0.0148	0.04
Nickel	7440-66-6	mg/L	4/20/2018						0.00164J				
Nickel	7440-66-6	mg/L	4/24/2018				0.00966	0.00587					
Nickel	7440-66-6	mg/L	4/25/2018	0.00277J	<0.02	0.00432J				0.00269J		0.0135	0.0397; 0.0446
Nickel	7440-66-6	mg/L	10/16/2018	0.00211	0.00243; 0.00225	0.00336	0.0142	0.00693	0.00482	0.0165	0.0256	0.0146	0.059
Nickel	7440-66-6	mg/L	4/16/2019	<0.005	<0.005	0.00198J	0.0059	0.01	<0.005	0.00269J	0.0273	0.0169	0.0706
Nickel	7440-66-6	mg/L	10/12/2019	0.00259J	<0.005	0.00354J	0.0139	0.00885	<0.005	0.00493J	0.0236	0.0193	0.0735
Nickel	7440-66-6	mg/L	3/30/2020	<0.005	<0.005	<0.005	0.005	0.00726	<0.005	0.00498J	0.0215	0.022	0.0632; 0.0691
Nickel	7440-66-6	mg/L	10/7/2020	0.00301J	<0.005	0.00192J	0.0138	0.00764	<0.005	0.0106	0.00916	0.0182	0.0642
Nickel	7440-66-6	mg/L	4/13/2021	0.0011J	0.0008J	0.0012J	0.0053	0.0096	0.0015J	0.0032J	0.0086	0.0156	0.0735
Nickel	7440-66-6	mg/L	10/20/2021						0.0025J; 0.0055				0.0847
Nickel	7440-66-6	mg/L	5/2/2022	0.0013J	<0.004	0.0054	0.0075	0.0083		0.0036J	0.0161	0.0021J	0.016
Nickel	7440-66-6	mg/L	10/14/2022						0.0077; 0.0048				0.0839
Nickel	7440-66-6	mg/L	5/1/2023	<0.005	<0.005	0.00211J	0.00614	0.00665	0.00309J	0.00304J	<0.005	0.0142	0.0353
Nickel	7440-66-6	mg/L	10/16/2023						0.00233J; 0.00212J				0.0492
Nickel	7440-66-6	mg/L	4/29/2024	<0.005	<0.005	0.0106	0.00299J	0.00346J	<0.005	0.00239J	<0.005	0.00938; 0.00964	0.0674
Nickel	7440-66-6	mg/L	10/10/2024										0.047
Nickel	7440-66-6	mg/L	10/11/2024						<0.00500				
Nitrate (NO3)	7440-66-6	mg/L	4/6/2015	0.0863J	<0.1	<0.1	<0.1	<0.1	<0.1	0.192	<0.1	<0.1	<0.1
Nitrate (NO3)	7440-66-6	mg/L	10/5/2015	0.0984J	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Nitrate (NO3)	7440-66-6	mg/L	4/4/2016	<0.1	<0.1	1.2	<0.1	<0.1	<0.1	0.299	1.51	<0.1	0.0969J
Nitrate (NO3)	7440-66-6	mg/L	10/17/2016	<0.1	0.453	0.11	0.307	<0.1	<0.1	0.367	<0.1	<0.1	<0.1
Nitrate (NO3)	7440-66-6	mg/L	5/2/2022										0.4
Nitrate (NO3)	7440-66-6	mg/L	5/1/2023										<0.2
Nitrate (NO3)	7440-66-6	mg/L	4/29/2024										<0.2
Nitrobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Nitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Nitrobenzene	7440-66-6	ug/L	4/4/2011										<10
Nitrobenzene	7440-66-6	ug/L	10/15/2014								<10		
Nitrobenzene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Nitrobenzene	7440-66-6	ug/L	4/4/2016										<10.3
Nitrobenzene	7440-66-6	ug/L	4/17/2017				<11						
Nitrobenzene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Nitrobenzene	7440-66-6	ug/L	10/20/2021										<8
Nitrobenzene	7440-66-6	ug/L	5/2/2022				<8						
N-Nitrosodiethylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
N-Nitrosodiethylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
N-Nitrosodiethylamine	7440-66-6	ug/L	4/4/2011										<10
N-Nitrosodiethylamine	7440-66-6	ug/L	10/15/2014								<10		
N-Nitrosodiethylamine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
N-Nitrosodiethylamine	7440-66-6	ug/L	4/4/2016										<10.3
N-Nitrosodiethylamine	7440-66-6	ug/L	4/17/2017				<11						
N-Nitrosodiethylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
N-Nitrosodiethylamine	7440-66-6	ug/L	10/20/2021										<8
N-Nitrosodiethylamine	7440-66-6	ug/L	5/2/2022				<8						
N-Nitrosodimethylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
N-Nitrosodimethylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
N-Nitrosodimethylamine	7440-66-6	ug/L	4/4/2011										<10
N-Nitrosodimethylamine	7440-66-6	ug/L	10/15/2014								<10		
N-Nitrosodimethylamine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
N-Nitrosodimethylamine	7440-66-6	ug/L	4/4/2016										<10.3
N-Nitrosodimethylamine	7440-66-6	ug/L	4/17/2017				<11						
N-Nitrosodimethylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
N-Nitrosodimethylamine	7440-66-6	ug/L	10/20/2021										<8
N-Nitrosodimethylamine	7440-66-6	ug/L	5/2/2022				<8						
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	4/4/2011										<10
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	10/15/2014								<10		
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	4/4/2016										<10.3
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	4/17/2017				<11						
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	10/20/2021										<8
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	5/2/2022				<8						
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	4/4/2011										<10
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	10/15/2014								<10		
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	10/5/2015	7.78J	<10	<10		<10.3	<10.8		<10.9	<10	
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	4/4/2016										<10.3
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	4/17/2017				<11						
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	10/20/2021										<8
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	5/2/2022				<8						
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2011										<10
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/15/2014								<10		
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2016										<10.3
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/17/2017				<11						
N-Nitrosodiphenylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/20/2021										<8
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/2/2022				<8						
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2011										<10
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/15/2014								<10		
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/4/2016										<10.3
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/17/2017				<11						
N-Nitrosodiphenylamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/20/2021										<8
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/2/2022				<8						
N-Nitrosomethylethalamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
N-Nitrosomethylethalamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
N-Nitrosomethylethalamine	7440-66-6	ug/L	4/4/2011										<10
N-Nitrosomethylethalamine	7440-66-6	ug/L	10/15/2014								<10		
N-Nitrosomethylethalamine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
N-Nitrosomethylethalamine	7440-66-6	ug/L	4/4/2016										<10.3

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
N-Nitrosomethylethalamine	7440-66-6	ug/L	4/17/2017				<11						
N-Nitrosomethylethalamine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
N-Nitrosomethylethalamine	7440-66-6	ug/L	10/20/2021										<8
N-Nitrosomethylethalamine	7440-66-6	ug/L	5/2/2022				<8						
N-Nitrosopiperidine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
N-Nitrosopiperidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
N-Nitrosopiperidine	7440-66-6	ug/L	4/4/2011										<10
N-Nitrosopiperidine	7440-66-6	ug/L	10/15/2014								<10		
N-Nitrosopiperidine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
N-Nitrosopiperidine	7440-66-6	ug/L	4/4/2016										<10.3
N-Nitrosopiperidine	7440-66-6	ug/L	4/17/2017				<11						
N-Nitrosopiperidine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
N-Nitrosopiperidine	7440-66-6	ug/L	10/20/2021										<8
N-Nitrosopiperidine	7440-66-6	ug/L	5/2/2022				<8						
N-Nitrosopyrrolidine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
N-Nitrosopyrrolidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
N-Nitrosopyrrolidine	7440-66-6	ug/L	4/4/2011										<10
N-Nitrosopyrrolidine	7440-66-6	ug/L	10/15/2014								<10		
N-Nitrosopyrrolidine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
N-Nitrosopyrrolidine	7440-66-6	ug/L	4/4/2016										<10.3
N-Nitrosopyrrolidine	7440-66-6	ug/L	4/17/2017				<11						
N-Nitrosopyrrolidine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
N-Nitrosopyrrolidine	7440-66-6	ug/L	10/20/2021										<8
N-Nitrosopyrrolidine	7440-66-6	ug/L	5/2/2022				<8						
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	4/14/2009	<30	<30	<30	<30	<60	<30				
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	4/4/2011										<10
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	10/15/2014								<10		
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	4/4/2016										<10.3
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	4/17/2017				<11						
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	10/20/2021										<0.4
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	5/2/2022				<0.4						
O-Toluidine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
O-Toluidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
O-Toluidine	7440-66-6	ug/L	4/4/2011										<10
O-Toluidine	7440-66-6	ug/L	10/15/2014								<10		
O-Toluidine	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
O-Toluidine	7440-66-6	ug/L	4/4/2016										<10.3
O-Toluidine	7440-66-6	ug/L	4/17/2017				<11						
O-Toluidine	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
O-Toluidine	7440-66-6	ug/L	10/20/2021										<8
O-Toluidine	7440-66-6	ug/L	5/2/2022				<8						
Parathion-Ethyl	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Parathion-Ethyl	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Parathion-Ethyl	7440-66-6	ug/L	4/4/2011										<10
Parathion-Ethyl	7440-66-6	ug/L	10/15/2014								<10		
Parathion-Ethyl	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Parathion-Ethyl	7440-66-6	ug/L	4/4/2016										<10.3
Parathion-Ethyl	7440-66-6	ug/L	4/17/2017				<11						
Parathion-Ethyl	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Parathion-Ethyl	7440-66-6	ug/L	10/20/2021										<0.4
Parathion-Ethyl	7440-66-6	ug/L	5/2/2022				<0.4						
Parathion-Methyl	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Parathion-Methyl	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Parathion-Methyl	7440-66-6	ug/L	4/4/2011										<10
Parathion-Methyl	7440-66-6	ug/L	10/15/2014								<10		
Parathion-Methyl	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Parathion-Methyl	7440-66-6	ug/L	4/4/2016										<10.3
Parathion-Methyl	7440-66-6	ug/L	4/17/2017				<11						
Parathion-Methyl	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Parathion-Methyl	7440-66-6	ug/L	10/20/2021										<0.4
Parathion-Methyl	7440-66-6	ug/L	5/2/2022				<0.4						
PCB-1016	7440-66-6	ug/L	4/14/2009	<0.92	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1016	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8			<0.8	
PCB-1016	7440-66-6	ug/L	4/4/2011										<0.8
PCB-1016	7440-66-6	ug/L	10/15/2014								<0.8		
PCB-1016	7440-66-6	ug/L	10/5/2015	<0.808	<0.8	<0.8		<0.808	<0.8		<0.8	<0.8	
PCB-1016	7440-66-6	ug/L	4/4/2016								<0.8		<0.825
PCB-1016	7440-66-6	ug/L	4/17/2017				<0.851						

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
PCB-1016	7440-66-6	ug/L	3/30/2020	<0.842	<0.833	<0.833		<0.851	<0.825		<0.842	<0.842	
PCB-1016	7440-66-6	ug/L	10/20/2021										<0.1
PCB-1016	7440-66-6	ug/L	5/2/2022				<0.1						
PCB-1221	7440-66-6	ug/L	4/14/2009	<0.92	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1221	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8			<0.8	
PCB-1221	7440-66-6	ug/L	4/4/2011										<0.8
PCB-1221	7440-66-6	ug/L	10/15/2014								<0.8		
PCB-1221	7440-66-6	ug/L	10/5/2015	<0.808	<0.8	<0.8		<0.808	<0.8		<0.8	<0.8	
PCB-1221	7440-66-6	ug/L	4/4/2016								<0.8		<0.825
PCB-1221	7440-66-6	ug/L	4/17/2017				<0.851						
PCB-1221	7440-66-6	ug/L	3/30/2020	<0.842	<0.833	<0.833		<0.851	<0.825		<0.842	<0.842	
PCB-1221	7440-66-6	ug/L	10/20/2021										<0.2
PCB-1221	7440-66-6	ug/L	5/2/2022				<0.2						
PCB-1232	7440-66-6	ug/L	4/14/2009	<0.92	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1232	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8			<0.8	
PCB-1232	7440-66-6	ug/L	4/4/2011										<0.8
PCB-1232	7440-66-6	ug/L	10/15/2014								<0.8		
PCB-1232	7440-66-6	ug/L	10/5/2015	<0.808	<0.8	<0.8		<0.808	<0.8		<0.8	<0.8	
PCB-1232	7440-66-6	ug/L	4/4/2016								<0.8		<0.825
PCB-1232	7440-66-6	ug/L	4/17/2017				<0.851						
PCB-1232	7440-66-6	ug/L	3/30/2020	<0.842	<0.833	<0.833		<0.851	<0.825		<0.842	<0.842	
PCB-1232	7440-66-6	ug/L	10/20/2021										<0.2
PCB-1232	7440-66-6	ug/L	5/2/2022				<0.2						
PCB-1242	7440-66-6	ug/L	4/14/2009	<0.92	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1242	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8			<0.8	
PCB-1242	7440-66-6	ug/L	4/4/2011										<0.8
PCB-1242	7440-66-6	ug/L	10/15/2014								<0.8		
PCB-1242	7440-66-6	ug/L	10/5/2015	<0.808	<0.8	<0.8		<0.808	<0.8		<0.8	<0.8	
PCB-1242	7440-66-6	ug/L	4/4/2016								<0.8		<0.825
PCB-1242	7440-66-6	ug/L	4/17/2017				<0.851						
PCB-1242	7440-66-6	ug/L	3/30/2020	<0.842	<0.833	<0.833		<0.851	<0.825		<0.842	<0.842	
PCB-1242	7440-66-6	ug/L	10/20/2021										<0.2
PCB-1242	7440-66-6	ug/L	5/2/2022				<0.2						
PCB-1248	7440-66-6	ug/L	4/14/2009	<0.92	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1248	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8			<0.8	
PCB-1248	7440-66-6	ug/L	4/4/2011										<0.8
PCB-1248	7440-66-6	ug/L	10/15/2014								<0.8		
PCB-1248	7440-66-6	ug/L	10/5/2015	<0.808	<0.8	<0.8		<0.808	<0.8		<0.8	<0.8	
PCB-1248	7440-66-6	ug/L	4/4/2016								<0.8		<0.825
PCB-1248	7440-66-6	ug/L	4/17/2017				<0.851						
PCB-1248	7440-66-6	ug/L	3/30/2020	<0.842	<0.833	<0.833		<0.851	<0.825		<0.842	<0.842	
PCB-1248	7440-66-6	ug/L	10/20/2021										<0.2
PCB-1248	7440-66-6	ug/L	5/2/2022				<0.2						
PCB-1254	7440-66-6	ug/L	4/14/2009	<0.92	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1254	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8			<0.8	
PCB-1254	7440-66-6	ug/L	4/4/2011										<0.8
PCB-1254	7440-66-6	ug/L	10/15/2014								<0.8		
PCB-1254	7440-66-6	ug/L	10/5/2015	<0.808	<0.8	<0.8		<0.808	<0.8		<0.8	<0.8	
PCB-1254	7440-66-6	ug/L	4/4/2016								<0.8		<0.825
PCB-1254	7440-66-6	ug/L	4/17/2017				<0.851						
PCB-1254	7440-66-6	ug/L	3/30/2020	<0.842	<0.833	<0.833		<0.851	<0.825		<0.842	<0.842	
PCB-1254	7440-66-6	ug/L	10/20/2021										<0.1
PCB-1254	7440-66-6	ug/L	5/2/2022				<0.1						
PCB-1260	7440-66-6	ug/L	4/14/2009	<0.92	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1260	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8			<0.8	
PCB-1260	7440-66-6	ug/L	4/4/2011										<0.8
PCB-1260	7440-66-6	ug/L	10/15/2014								<0.8		
PCB-1260	7440-66-6	ug/L	10/5/2015	<0.808	<0.8	<0.8		<0.808	<0.8		<0.8	<0.8	
PCB-1260	7440-66-6	ug/L	4/4/2016								<0.8		<0.825
PCB-1260	7440-66-6	ug/L	4/17/2017				<0.851						
PCB-1260	7440-66-6	ug/L	3/30/2020	<0.842	<0.833	<0.833		<0.851	<0.825		<0.842	<0.842	
PCB-1260	7440-66-6	ug/L	10/20/2021										<0.1
PCB-1260	7440-66-6	ug/L	5/2/2022				<0.1						
p-Chloroaniline	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10			<10	
p-Chloroaniline	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
p-Chloroaniline	7440-66-5	ug/L	4/4/2011										<10
p-Chloroaniline	7440-66-5	ug/L	10/15/2014								<10		
p-Chloroaniline	7440-66-5	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
p-Chloroaniline	7440-66-5	ug/L	4/4/2016										<10.3
p-Chloroaniline	7440-66-5	ug/L	4/17/2017				<11						
p-Chloroaniline	7440-66-5	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
p-Chloroaniline	7440-66-6	ug/L	10/20/2021										<8
p-Chloroaniline	7440-66-6	ug/L	5/2/2022				<8						
Pentachlorobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Pentachlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Pentachlorobenzene	7440-66-6	ug/L	4/4/2011										<10
Pentachlorobenzene	7440-66-6	ug/L	10/15/2014								<10		
Pentachlorobenzene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Pentachlorobenzene	7440-66-6	ug/L	4/4/2016										<10.3
Pentachlorobenzene	7440-66-6	ug/L	4/17/2017				<11						
Pentachlorobenzene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Pentachlorobenzene	7440-66-6	ug/L	10/20/2021										<8
Pentachlorobenzene	7440-66-6	ug/L	5/2/2022				<8						
Pentachloronitrobenzene	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Pentachloronitrobenzene	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Pentachloronitrobenzene	7440-66-5	ug/L	4/4/2011										<10
Pentachloronitrobenzene	7440-66-5	ug/L	10/15/2014								<10		
Pentachloronitrobenzene	7440-66-5	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Pentachloronitrobenzene	7440-66-5	ug/L	4/4/2016										<10.3
Pentachloronitrobenzene	7440-66-5	ug/L	4/17/2017				<11						
Pentachloronitrobenzene	7440-66-5	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Pentachloronitrobenzene	7440-66-5	ug/L	10/20/2021										<8
Pentachloronitrobenzene	7440-66-5	ug/L	5/2/2022				<8						
Pentachlorophenol [2C]	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Pentachlorophenol [2C]	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Pentachlorophenol [2C]	7440-66-6	ug/L	4/4/2011										<10
Pentachlorophenol [2C]	7440-66-6	ug/L	10/15/2014								<10		
Pentachlorophenol [2C]	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Pentachlorophenol [2C]	7440-66-6	ug/L	4/4/2016										<10.3
Pentachlorophenol [2C]	7440-66-6	ug/L	4/17/2017				<11						
Pentachlorophenol [2C]	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Pentachlorophenol [2C]	7440-66-6	ug/L	10/20/2021										<8
Pentachlorophenol [2C]	7440-66-6	ug/L	5/2/2022				<8						
Phenacetin	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Phenacetin	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Phenacetin	7440-66-6	ug/L	4/4/2011										<10
Phenacetin	7440-66-6	ug/L	10/15/2014								<10		
Phenacetin	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Phenacetin	7440-66-6	ug/L	4/4/2016										<10.3
Phenacetin	7440-66-6	ug/L	4/17/2017				<11						
Phenacetin	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Phenacetin	7440-66-6	ug/L	10/20/2021										<8
Phenacetin	7440-66-6	ug/L	5/2/2022				<8						
Phenanthrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Phenanthrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Phenanthrene	7440-66-6	ug/L	4/4/2011										<10
Phenanthrene	7440-66-6	ug/L	10/15/2014								<10		
Phenanthrene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Phenanthrene	7440-66-6	ug/L	4/4/2016										<10.3
Phenanthrene	7440-66-6	ug/L	4/17/2017				<11						
Phenanthrene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Phenanthrene	7440-66-6	ug/L	10/20/2021										<8
Phenanthrene	7440-66-6	ug/L	5/2/2022				<8						
Phenol	7440-66-6	ug/L	4/14/2009	<20	<20	<20	<20	<40	<20				
Phenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Phenol	7440-66-6	ug/L	4/4/2011										<10
Phenol	7440-66-6	ug/L	10/15/2014								<10		
Phenol	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Phenol	7440-66-6	ug/L	4/4/2016										<10.3
Phenol	7440-66-6	ug/L	4/17/2017				<11						
Phenol	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Phenol	7440-66-6	ug/L	10/20/2021										<8
Phenol	7440-66-6	ug/L	5/2/2022				<8						
Phorate	7440-66-5	ug/L	4/14/2009	<60	<60	<60	<60	<120	<60				
Phorate	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Phorate	7440-66-5	ug/L	4/4/2011										<10
Phorate	7440-66-5	ug/L	10/15/2014								<10		
Phorate	7440-66-5	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Phorate	7440-66-5	ug/L	4/4/2016										<10.3
Phorate	7440-66-5	ug/L	4/17/2017				<11						
Phorate	7440-66-5	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Phorate	7440-66-5	ug/L	10/20/2021										<0.4

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Phorate	7440-66-6	ug/L	5/2/2022				<0.4						
Potassium	7440-66-6	mg/L	6/2/2014	6.14	1.56	2.92	1.22	1.8	<1	<1	1.09	1.29	1.01
Potassium	7440-66-6	mg/L	10/15/2014	7.86	1.58	3.39	1.34	2.29	1.02	<1	1.15	1.6	0.907J
Potassium	7440-66-6	mg/L	3/30/2020								0.782		
Pronamide	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Pronamide	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Pronamide	7440-66-6	ug/L	4/4/2011										<10
Pronamide	7440-66-6	ug/L	10/15/2014								<10		
Pronamide	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Pronamide	7440-66-6	ug/L	4/4/2016										<10.3
Pronamide	7440-66-6	ug/L	4/17/2017				<11						
Pronamide	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Pronamide	7440-66-6	ug/L	10/20/2021										<8
Pronamide	7440-66-6	ug/L	5/2/2022				<8						
Propionitrile	7440-66-5	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10				
Propionitrile	7440-66-5	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Propionitrile	7440-66-5	ug/L	4/4/2011										<10
Propionitrile	7440-66-5	ug/L	10/15/2014								<10		
Propionitrile	7440-66-5	ug/L	10/5/2015	<10	<10	<10		<10	<10		<10	<10	
Propionitrile	7440-66-5	ug/L	4/4/2016										<10
Propionitrile	7440-66-5	ug/L	4/17/2017				<10						
Propionitrile	7440-66-5	ug/L	3/30/2020	<10	<10	<10		<10	<10		<10	<10	
Propionitrile	7440-66-5	ug/L	10/20/2021										<10
Propionitrile	7440-66-5	ug/L	5/2/2022				<10						
Pyrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Pyrene	7440-66-6	ug/L	4/4/2011										<10
Pyrene	7440-66-6	ug/L	10/15/2014								<10		
Pyrene	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Pyrene	7440-66-6	ug/L	4/4/2016										<10.3
Pyrene	7440-66-6	ug/L	4/17/2017				<11						
Pyrene	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Pyrene	7440-66-6	ug/L	10/20/2021										<8
Pyrene	7440-66-6	ug/L	5/2/2022				<8						
Safrole	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Safrole	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Safrole	7440-66-6	ug/L	4/4/2011										<10
Safrole	7440-66-6	ug/L	10/15/2014								<10		
Safrole	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Safrole	7440-66-6	ug/L	4/4/2016										<10.3
Safrole	7440-66-6	ug/L	4/17/2017				<11						
Safrole	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Safrole	7440-66-6	ug/L	10/20/2021										<8
Safrole	7440-66-6	ug/L	5/2/2022				<8						
Selenium	7440-66-6	mg/L	2/27/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Selenium	7440-66-6	mg/L	5/12/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Selenium	7440-66-6	mg/L	7/13/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Selenium	7440-66-6	mg/L	9/14/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Selenium	7440-66-6	mg/L	11/17/2008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				
Selenium	7440-66-6	mg/L	4/14/2009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Selenium	7440-66-6	mg/L	7/7/2009								<0.01	<0.01	
Selenium	7440-66-6	mg/L	9/2/2009								<0.01	<0.01	
Selenium	7440-66-6	mg/L	10/25/2009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	
Selenium	7440-66-6	mg/L	1/2/2010								<0.01	<0.01	
Selenium	7440-66-6	mg/L	3/3/2010								<0.01	<0.01	<0.01
Selenium	7440-66-6	mg/L	5/10/2010	<0.002	0.0031	0.0025	0.004	0.0028	<0.002		0.0047	0.0023	
Selenium	7440-66-6	mg/L	7/8/2010								<0.01	<0.01	<0.01
Selenium	7440-66-6	mg/L	9/13/2010								<0.01	<0.01	<0.01
Selenium	7440-66-6	mg/L	11/1/2010								<0.01	<0.01	
Selenium	7440-66-6	mg/L	1/10/2011								<0.005	<0.005	
Selenium	7440-66-6	mg/L	4/4/2011								<0.01	<0.01	<0.005
Selenium	7440-66-6	mg/L	7/8/2011										<0.01
Selenium	7440-66-6	mg/L	8/11/2011										<0.01
Selenium	7440-66-6	mg/L	10/13/2011	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	12/5/2011						<0.005				<0.005
Selenium	7440-66-6	mg/L	4/11/2012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	6/25/2012						<0.005				<0.005
Selenium	7440-66-6	mg/L	8/1/2012						<0.005	<0.005			
Selenium	7440-66-6	mg/L	10/11/2012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	12/13/2012						<0.005	<0.005			
Selenium	7440-66-6	mg/L	3/30/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Selenium	7440-66-6	mg/L	10/7/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	6/2/2014	0.000709J		<0.005	0.00105J	<0.005	<0.005	<0.005	<0.005	<0.005	0.00132J
Selenium	7440-66-6	mg/L	10/15/2014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	4/6/2015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	10/5/2015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	4/4/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00122J	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	10/17/2016	0.00113J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.000711J	<0.005
Selenium	7440-66-6	mg/L	4/17/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	10/11/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	4/20/2018						<0.005				
Selenium	7440-66-6	mg/L	4/24/2018				<0.005	<0.005			<0.005		
Selenium	7440-66-6	mg/L	4/25/2018	<0.005	<0.02	<0.005				<0.005		<0.005	<0.005
Selenium	7440-66-6	mg/L	10/16/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Selenium	7440-66-6	mg/L	4/16/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	10/1/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00409J	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	3/30/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00321J	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	10/7/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00146J	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	4/13/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0034J	<0.004	<0.004	<0.004
Selenium	7440-66-6	mg/L	10/20/2021						<0.004; 0.0044				<0.004
Selenium	7440-66-6	mg/L	5/2/2022				<0.004		<0.004	0.0027J			0.0017J
Selenium	7440-66-6	mg/L	10/14/2022						<0.004				0.002J
Selenium	7440-66-6	mg/L	5/1/2023						<0.005	<0.005			<0.005
Selenium	7440-66-6	mg/L	10/16/2023						<0.005				<0.005
Selenium	7440-66-6	mg/L	4/29/2024						<0.005	<0.005			<0.005
Selenium	7440-66-6	mg/L	10/10/2024										<0.00500
Selenium	7440-66-6	mg/L	10/11/2024						<0.00500				
Silver	7440-66-6	mg/L	2/27/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Silver	7440-66-6	mg/L	5/12/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Silver	7440-66-6	mg/L	7/13/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Silver	7440-66-6	mg/L	9/14/2008	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Silver	7440-66-6	mg/L	11/17/2008	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02				
Silver	7440-66-6	mg/L	4/14/2009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01				
Silver	7440-66-6	mg/L	7/7/2009								<0.01	<0.01	
Silver	7440-66-6	mg/L	9/2/2009								0.018	<0.01	
Silver	7440-66-6	mg/L	10/25/2009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025		<0.025	<0.025	<0.025
Silver	7440-66-6	mg/L	1/2/2010								<0.025	<0.025	
Silver	7440-66-6	mg/L	3/3/2010								<0.025	<0.025	<0.025
Silver	7440-66-6	mg/L	5/10/2010	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			<0.02	<0.02
Silver	7440-66-6	mg/L	7/8/2010										<0.025
Silver	7440-66-6	mg/L	9/13/2010										<0.025
Silver	7440-66-6	mg/L	11/1/2010								<0.025	<0.025	
Silver	7440-66-6	mg/L	4/4/2011								<0.025	<0.025	<0.02
Silver	7440-66-6	mg/L	7/8/2011										<0.025
Silver	7440-66-6	mg/L	8/11/2011										<0.025
Silver	7440-66-6	mg/L	10/13/2011	<0.02	<0.02	<0.02	<0.02	<0.02			<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	12/5/2011						<0.02				
Silver	7440-66-6	mg/L	4/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	6/25/2012						<0.02				
Silver	7440-66-6	mg/L	8/1/2012						<0.02	<0.02			
Silver	7440-66-6	mg/L	10/11/2012	<0.02	<0.02	0.0308	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	12/13/2012						<0.02	<0.02			
Silver	7440-66-6	mg/L	3/30/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	10/7/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	6/2/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	10/15/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	4/6/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000063J
Silver	7440-66-6	mg/L	10/5/2015	<0.001	<0.001	<0.001	<0.001	<0.001	0.000075J	<0.001	0.0001J	<0.001	<0.001
Silver	7440-66-6	mg/L	4/4/2016	<0.001	<0.001	0.000174J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	4/17/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000186J	<0.001
Silver	7440-66-6	mg/L	10/11/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	4/20/2018						<0.001				
Silver	7440-66-6	mg/L	4/24/2018				<0.001	<0.001			<0.001		
Silver	7440-66-6	mg/L	4/25/2018	<0.001	<0.004	<0.001				<0.001		<0.001	<0.001; 0.000321J
Silver	7440-66-6	mg/L	10/16/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silver	7440-66-6	mg/L	4/16/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	3/30/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/7/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	4/13/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Silver	7440-66-6	mg/L	10/20/2021						<0.004				<0.004

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Silver	7440-66-6	mg/L	5/2/2022				<0.004		<0.004	<0.004			<0.004
Silver	7440-66-6	mg/L	10/14/2022						<0.004				<0.004
Silver	7440-66-6	mg/L	5/1/2023						<0.001	<0.001			<0.001
Silver	7440-66-6	mg/L	10/16/2023						<0.001				<0.001
Silver	7440-66-6	mg/L	4/29/2024						<0.001	<0.001			<0.001
Silver	7440-66-6	mg/L	10/10/2024										<0.00100
Silver	7440-66-6	mg/L	10/11/2024						<0.00100				
Sodium	7440-66-6	mg/L	6/2/2014	4.14	19.3	30.9	23.2	28.1	10	5.68	20.9	14.2	10.9
Sodium	7440-66-6	mg/L	10/15/2014	4.05	18.7	31.1	26.1	30.6	10.5	4.93	21.6	23.3	10.3
Sodium	7440-66-6	mg/L	3/30/2020								85.4		
Styrene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	7/7/2009								<1	<1	
Styrene	7440-66-6	ug/L	9/2/2009								<1	<1	
Styrene	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<2	<2		<2	<2	
Styrene	7440-66-6	ug/L	1/2/2010								<4	<4	
Styrene	7440-66-6	ug/L	3/3/2010								<2	<2	<2
Styrene	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4			<4	<4
Styrene	7440-66-6	ug/L	7/8/2010										<4
Styrene	7440-66-6	ug/L	9/13/2010										<1
Styrene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
Styrene	7440-66-6	ug/L	4/4/2011										<1
Styrene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
Styrene	7440-66-6	ug/L	12/5/2011						<1				
Styrene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
Styrene	7440-66-6	ug/L	6/25/2012						<1				
Styrene	7440-66-6	ug/L	8/1/2012						<1	<1			
Styrene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	12/13/2012						<1	<1			
Styrene	7440-66-6	ug/L	2/4/2013						<1	<1			
Styrene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/7/2013	<1	<1		<1	<1	<1	<1	<1		<1
Styrene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/20/2018						<1				
Styrene	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
Styrene	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
Styrene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/20/2021						<1				<1
Styrene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Styrene	7440-66-6	ug/L	10/14/2022						<1				<1
Styrene	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
Styrene	7440-66-6	ug/L	10/16/2023						<1				<1
Styrene	7440-66-6	ug/L	4/29/2024						<1	<1			<1
Styrene	7440-66-6	ug/L	10/10/2024										<1.00
Styrene	7440-66-6	ug/L	10/11/2024						<1.00				
Sulfate	7440-66-6	mg/L	6/2/2014	16.7	<5	58.1	133	162	28.3	13.7	2.51J	109	30.7
Sulfate	7440-66-6	mg/L	10/15/2014	9.96	<5	31.6	136	147	29.4	13.9	2.89J	102	33.9
Sulfate	7440-66-6	mg/L	4/6/2015	18.6		54.6	144	171	27.7	10.4	1.78	107	33.5
Sulfate	7440-66-6	mg/L	10/5/2015	10.7	1.99J	9.2	135	128	28.4	11.5	4.15J	113	29.6
Sulfate	7440-66-6	mg/L	4/4/2016	44.2	0.466J	35.3	137	121	30.5	10.6	48.2	81.2	31.7
Sulfate	7440-66-6	mg/L	10/17/2016	13.3	<1	6.09	136	110	31.1	9.66	18.7	74.7	28.5
Sulfate	7440-66-6	mg/L	3/30/2020								235		
Sulfate	7440-66-6	mg/L	5/2/2022										21.5
Sulfate	7440-66-6	mg/L	5/1/2023										4.44
Sulfate	7440-66-6	mg/L	4/29/2024										18.5

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Sulfide	7440-66-6	mg/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Sulfide	7440-66-6	mg/L	5/10/2010	<1	<1	3.6	<1	<1	<1			<1	
Sulfide	7440-66-6	mg/L	7/8/2010			0.62							
Sulfide	7440-66-6	mg/L	9/13/2010			<1							
Sulfide	7440-66-6	mg/L	1/10/2011			<1							
Sulfide	7440-66-6	mg/L	4/4/2011										<1
Sulfide	7440-66-6	mg/L	6/2/2014			<1				<1			
Sulfide	7440-66-6	mg/L	10/15/2014			<1				<1	<1		
Sulfide	7440-66-6	mg/L	4/6/2015			<1				<1			
Sulfide	7440-66-6	mg/L	10/5/2015	<1	<1	<1		<1	<1	<1	<1	<1	
Sulfide	7440-66-6	mg/L	4/4/2016			<1							<1
Sulfide	7440-66-6	mg/L	10/17/2016			<1							
Sulfide	7440-66-6	mg/L	4/17/2017			1.25	<1						
Sulfide	7440-66-6	mg/L	10/11/2017			4.39							
Sulfide	7440-66-6	mg/L	4/25/2018			15.7							
Sulfide	7440-66-6	mg/L	10/16/2018			0.912J							
Sulfide	7440-66-6	mg/L	4/16/2019			<1							
Sulfide	7440-66-6	mg/L	10/1/2019			4.37							
Sulfide	7440-66-6	mg/L	3/30/2020	0.723J	<1	3.6		<1	<1		<1	<1	
Sulfide	7440-66-6	mg/L	10/7/2020			<10							
Sulfide	7440-66-6	mg/L	4/13/2021			<0.1							
Sulfide	7440-66-6	mg/L	10/20/2021										<0.1
Sulfide	7440-66-6	mg/L	5/2/2022				<0.1						
Tetrachloroethene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
Tetrachloroethene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
Tetrachloroethene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
Tetrachloroethene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
Tetrachloroethene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
Tetrachloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Tetrachloroethene	7440-66-6	ug/L	7/7/2009								<1	<1	
Tetrachloroethene	7440-66-6	ug/L	9/2/2009								<1	<1	
Tetrachloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1		<1	<1	
Tetrachloroethene	7440-66-6	ug/L	1/2/2010								<1	<1	
Tetrachloroethene	7440-66-6	ug/L	3/3/2010								<2	<2	<2
Tetrachloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
Tetrachloroethene	7440-66-6	ug/L	7/8/2010										<1
Tetrachloroethene	7440-66-6	ug/L	9/13/2010										<1
Tetrachloroethene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
Tetrachloroethene	7440-66-6	ug/L	4/4/2011										<1
Tetrachloroethene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	12/5/2011						<1				
Tetrachloroethene	7440-66-6	ug/L	4/1/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	6/25/2012						<1				
Tetrachloroethene	7440-66-6	ug/L	8/1/2012						<1	<1			
Tetrachloroethene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	12/13/2012						<1	<1			
Tetrachloroethene	7440-66-6	ug/L	2/4/2013						<1	<1			
Tetrachloroethene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/7/2013	<1	<1		<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/20/2018										
Tetrachloroethene	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	4/25/2018	<1	<1	<1			<1		<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/20/2021						<1				<1
Tetrachloroethene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Tetrachloroethene	7440-66-6	ug/L	10/14/2022						<1				<1
Tetrachloroethene	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/16/2023						<1				<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Tetrachloroethene	7440-66-6	ug/L	4/29/2024						<1	<1			<1
Tetrachloroethene	7440-66-6	ug/L	10/10/2024										<1.00
Tetrachloroethene	7440-66-6	ug/L	10/11/2024						<1.00				
Thallium	7440-66-6	mg/L	2/27/2008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	5/12/2008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	7/13/2008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	9/14/2008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	11/17/2008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	4/14/2009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	7/7/2009								<0.002	<0.002	
Thallium	7440-66-6	mg/L	9/2/2009								<0.002	<0.002	
Thallium	7440-66-6	mg/L	10/25/2009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	
Thallium	7440-66-6	mg/L	1/2/2010								<0.002	<0.002	
Thallium	7440-66-6	mg/L	3/3/2010								<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	5/10/2010	<0.0004	<0.0004	0.00059	<0.0004	<0.0004	<0.0004			<0.0004	<0.0004
Thallium	7440-66-6	mg/L	7/8/2010										<0.002
Thallium	7440-66-6	mg/L	9/13/2010										<0.002
Thallium	7440-66-6	mg/L	11/1/2010	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002	
Thallium	7440-66-6	mg/L	4/4/2011			<0.002							<0.002
Thallium	7440-66-6	mg/L	10/13/2011	<0.002	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	12/5/2011						<0.002				
Thallium	7440-66-6	mg/L	4/11/2012	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	6/25/2012						<0.002				
Thallium	7440-66-6	mg/L	8/1/2012						<0.002	<0.002			
Thallium	7440-66-6	mg/L	10/11/2012	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	12/13/2012						<0.002	<0.002			
Thallium	7440-66-6	mg/L	3/30/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	10/7/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	6/2/2014	<0.002	<0.002	<0.002	<0.002	<0.002	0.00253	<0.002	0.000652J	<0.002	<0.002
Thallium	7440-66-6	mg/L	10/15/2014	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	4/6/2015	<0.001	<0.001	<0.001	<0.001	<0.001	0.000135J	<0.001	<0.001	<0.001	0.000044J
Thallium	7440-66-6	mg/L	10/5/2015	<0.001	<0.001	<0.001	<0.001	<0.001	0.000344J	<0.001	0.000036J	<0.001	0.000054J; 0.000061J
Thallium	7440-66-6	mg/L	4/4/2016	<0.001	<0.001	<0.001	0.000026J	0.00006J	0.000131J	<0.001	0.000034J	<0.001	0.000036J
Thallium	7440-66-6	mg/L	10/17/2016	<0.001	<0.001	<0.001	0.000032J	0.000034J; 0.000032J	0.000122J	<0.001	<0.001	0.000026J	0.000036J
Thallium	7440-66-6	mg/L	4/17/2017	<0.001	<0.001	<0.001	<0.001	<0.001	0.000103J	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/11/2017	0.000224J	<0.001	<0.001	<0.001	<0.001	0.00084J	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	4/20/2018						<0.001				
Thallium	7440-66-6	mg/L	4/24/2018				<0.001	<0.001			<0.001		
Thallium	7440-66-6	mg/L	4/25/2018	<0.001	<0.004	<0.001				<0.001		<0.001	<0.001
Thallium	7440-66-6	mg/L	10/16/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	4/16/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	3/30/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/7/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	4/13/2021	<0.002	<0.002	<0.002	<0.002	<0.002	0.0002J	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	10/20/2021						<0.002; 0.0002J				<0.002
Thallium	7440-66-6	mg/L	5/2/2022				<0.002		0.0002J	<0.002			<0.002
Thallium	7440-66-6	mg/L	10/14/2022						0.0003J; 0.0002J				<0.002
Thallium	7440-66-6	mg/L	5/1/2023						<0.001	<0.001			<0.001
Thallium	7440-66-6	mg/L	10/16/2023						<0.001				<0.001
Thallium	7440-66-6	mg/L	4/29/2024						<0.001	<0.001			<0.001
Thallium	7440-66-6	mg/L	10/10/2024										<0.00100
Thallium	7440-66-6	mg/L	10/11/2024						<0.00100				
Thionazin	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<20	<10				
Thionazin	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10			<10	
Thionazin	7440-66-6	ug/L	4/4/2011										<10
Thionazin	7440-66-6	ug/L	10/15/2014								<10		
Thionazin	7440-66-6	ug/L	10/5/2015	<10.3	<10	<10		<10.3	<10.8		<10.9	<10	
Thionazin	7440-66-6	ug/L	4/4/2016										<10.3
Thionazin	7440-66-6	ug/L	4/17/2017				<11						
Thionazin	7440-66-6	ug/L	3/30/2020	<10.4	<10.4	<10.2		<10.2	<10.3		<10.4	<10.4	
Thionazin	7440-66-6	ug/L	10/20/2021										<0.4
Thionazin	7440-66-6	ug/L	5/2/2022				<0.4						
Tin	7440-66-6	mg/L	4/14/2009	<0.1	<0.1	<0.1	0.106	<0.1	<0.1				
Tin	7440-66-6	mg/L	7/7/2009				<0.1						
Tin	7440-66-6	mg/L	9/2/2009				0.103						
Tin	7440-66-6	mg/L	10/25/2009				<0.1						
Tin	7440-66-6	mg/L	1/2/2010				<0.1						
Tin	7440-66-6	mg/L	5/10/2010	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1		
Tin	7440-66-6	mg/L	4/4/2011										<0.1
Tin	7440-66-6	mg/L	10/13/2011				<0.1	<0.1					

Table 9A
Analytical Data Summary - Series B HMSP Wells
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Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Tin	7440-66-6	mg/L	4/11/2012				<0.1						
Tin	7440-66-6	mg/L	10/11/2012				<0.1			<0.1			
Tin	7440-66-6	mg/L	3/30/2013				<0.1			<0.1			
Tin	7440-66-6	mg/L	10/7/2013				0.587			0.136			
Tin	7440-66-6	mg/L	6/2/2014				<0.1						
Tin	7440-66-6	mg/L	10/15/2014				0.106				0.128		
Tin	7440-66-6	mg/L	4/6/2015							<0.005	<0.1		
Tin	7440-66-6	mg/L	6/10/2015								0.0489J		
Tin	7440-66-6	mg/L	8/10/2015								<0.005		
Tin	7440-66-6	mg/L	9/14/2015								<0.005		
Tin	7440-66-6	mg/L	10/5/2015	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005	<0.005	
Tin	7440-66-6	mg/L	4/4/2016								<0.005		<0.005
Tin	7440-66-6	mg/L	10/17/2016								<0.005		
Tin	7440-66-6	mg/L	4/17/2017				<0.005				<0.005		
Tin	7440-66-6	mg/L	10/11/2017				<0.005				<0.005		
Tin	7440-66-6	mg/L	4/24/2018				<0.005				<0.005		
Tin	7440-66-6	mg/L	10/16/2018				<0.005				<0.005		
Tin	7440-66-6	mg/L	4/16/2019				<0.005				<0.005		
Tin	7440-66-6	mg/L	10/1/2019				<0.005				<0.005		
Tin	7440-66-6	mg/L	3/30/2020	<0.005	<0.005	<0.005	0.0038J	<0.005	<0.005		<0.005	<0.005	
Tin	7440-66-6	mg/L	10/7/2020				<0.005						
Tin	7440-66-6	mg/L	4/13/2021				<0.02						
Tin	7440-66-6	mg/L	10/20/2021										<0.02
Tin	7440-66-6	mg/L	5/2/2022				<0.02						
Toluene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
Toluene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
Toluene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
Toluene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
Toluene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
Toluene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Toluene	7440-66-6	ug/L	7/7/2009							<1	<1		
Toluene	7440-66-6	ug/L	9/2/2009							<1	<1		
Toluene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1	<1	<1		
Toluene	7440-66-6	ug/L	1/2/2010							<1	<1		
Toluene	7440-66-6	ug/L	3/3/2010							<1	<1	<1	
Toluene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1		<1	<1	
Toluene	7440-66-6	ug/L	7/8/2010										<1
Toluene	7440-66-6	ug/L	9/13/2010										<1
Toluene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
Toluene	7440-66-6	ug/L	4/4/2011										<1
Toluene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	
Toluene	7440-66-6	ug/L	12/5/2011						<1				
Toluene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
Toluene	7440-66-6	ug/L	6/25/2012						<1				
Toluene	7440-66-6	ug/L	8/1/2012						<1	<1			
Toluene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	12/13/2012						<1	<1			
Toluene	7440-66-6	ug/L	2/4/2013						<1	<1			
Toluene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/15/2014	<1; 0.168J	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/4/2016	<1	<1	0.2J	<1	<1	<1	<1	<1	0.261J; <1	0.182J
Toluene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/11/2017	0.424J	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/20/2018						<1				
Toluene	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
Toluene	7440-66-6	ug/L	4/25/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/16/2018	1.82	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/1/2019	0.735J	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/20/2021						<1				<1
Toluene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Toluene	7440-66-6	ug/L	10/14/2022						<1				<1
Toluene	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Toluene	7440-66-6	ug/L	10/16/2023						<1				<1
Toluene	7440-66-6	ug/L	4/29/2024						<1	<1			<1
Toluene	7440-66-6	ug/L	10/10/2024										<1.00
Toluene	7440-66-6	ug/L	10/11/2024						<1.00				
Total Organic Carbon	7440-66-6	mg/L	4/6/2015	7.9	2.26	6.87	5.4	5.78	0.7J	0.94J	8.2	5.8	2.66
Total Organic Carbon	7440-66-6	mg/L	10/5/2015	11.8	2.08	8.45	5.83	6.14	0.64J	0.96J	6.17	6.12	2.22
Total Organic Carbon	7440-66-6	mg/L	4/4/2016	6.94	2.01	7.64	5.47	6.01	0.599J	0.819J	7.47	8.37	2.16
Total Organic Carbon	7440-66-6	mg/L	10/17/2016	12.6	1.7	6.47	3.21	4.45	0.71J	0.834J	8.61	8.45	2.72
Total Organic Carbon	7440-66-6	mg/L	5/2/2022										9.97
Total Organic Carbon	7440-66-6	mg/L	5/1/2023										20.8
Total Organic Carbon	7440-66-6	mg/L	4/29/2024										8.86
Total Suspended Solids	7440-66-6	mg/L	6/2/2014	16	30	59	6.33	5.33	704	<5	6.67	<5	4.33J
Total Suspended Solids	7440-66-6	mg/L	10/15/2014	1.5J, 2.38	213	45.5	9.4	8.33	642	5.88	2.75	<1.88	<1.88
Total Suspended Solids	7440-66-6	mg/L	4/6/2015	4	30.5	41.3	3	1.83J	26.6	<2.5	2J	<2.5	5.67
Total Suspended Solids	7440-66-6	mg/L	8/10/2015								2		
Total Suspended Solids	7440-66-6	mg/L	9/14/2015								<1.88		
Total Suspended Solids	7440-66-6	mg/L	10/5/2015	4.38	34.8	60.4	3.38	4.25	2160	3.25	4.13	121	1.25J, <1.88
Total Suspended Solids	7440-66-6	mg/L	4/4/2016	1.38J	24.5	38.7	2.63	5.88	25.8	<1.88	8.5	0.75J, <1.88	1.13J
Total Suspended Solids	7440-66-6	mg/L	10/11/2016						1730				
Total Suspended Solids	7440-66-6	mg/L	10/17/2016	15.4	35	71.3	6.25	5, 10	168	1.25J	4.13	1J	0.625J
Total Suspended Solids	7440-66-6	mg/L	11/14/2016						289				
Total Suspended Solids	7440-66-6	mg/L	4/17/2017	10	66, 30.8	103	13.8	9.38	41.5	3.75	11.9	6	2
Total Suspended Solids	7440-66-6	mg/L	10/11/2017	5.75	28, 28.9	355	3.13	6.63	2730	7.88	39.6	5.37	1.63J
Total Suspended Solids	7440-66-6	mg/L	4/20/2018						28.5				
Total Suspended Solids	7440-66-6	mg/L	4/24/2018				4.75	4.38			21.9		
Total Suspended Solids	7440-66-6	mg/L	4/25/2018	5.63	38.9	103				6.38		7	1.75J, 1.63J
Total Suspended Solids	7440-66-6	mg/L	10/16/2018	12.5	36.3, 40.8	69.7	1.13J	16.2	71.3	197	39.5	1240	11.2
Total Suspended Solids	7440-66-6	mg/L	4/16/2019	7.88	41.3	58.9	1.63J	2.5	53	26	65.1	375	19
Total Suspended Solids	7440-66-6	mg/L	10/1/2019	13	27.5	70	2.38	5.25	40.7, 32.1	4.5	50	10.9	11
Total Suspended Solids	7440-66-6	mg/L	3/30/2020	6	36	62	2.75J	2.13	26	2.63	26J	10.5	19, 20
Total Suspended Solids	7440-66-6	mg/L	10/7/2020	31.6	25	60	1.63J	4.62	14.3	13	52	60.5, 22	1.38J
Total Suspended Solids	7440-66-6	mg/L	4/13/2021	51	39	56	<2	2	15	3	59	244	21
Total Suspended Solids	7440-66-6	mg/L	10/20/2021						53, 36				5
Total Suspended Solids	7440-66-6	mg/L	5/2/2022	<2	132	90	5	6	136	61	59	23	33
Total Suspended Solids	7440-66-6	mg/L	10/14/2022						221, 93				20
Total Suspended Solids	7440-66-6	mg/L	5/1/2023	3.13	90	64	2.5	5.88	80	10	8.5	5.5	96
Total Suspended Solids	7440-66-6	mg/L	10/16/2023						17.4, 12.9				60
Total Suspended Solids	7440-66-6	mg/L	4/29/2024	2.75	53	52	4.13	5.37	63.5	61.3	2.25	7.13, 4.88	42.3
Total Suspended Solids	7440-66-6	mg/L	10/10/2024										49
Total Suspended Solids	7440-66-6	mg/L	10/11/2024						36.7				
Toxaphene	7440-66-6	ug/L	4/14/2009	<2	2.35	12.3	<2	<2	<2				
Toxaphene	7440-66-6	ug/L	7/7/2009		<2	<2							
Toxaphene	7440-66-6	ug/L	9/2/2009		<2	4.34							
Toxaphene	7440-66-6	ug/L	10/25/2009		<2	4.36							
Toxaphene	7440-66-6	ug/L	1/2/2010		<2	4.52							
Toxaphene	7440-66-6	ug/L	5/10/2010	<2	<2	<2	<2	<2	<2			<2	
Toxaphene	7440-66-6	ug/L	11/1/2010		<2	<2							
Toxaphene	7440-66-6	ug/L	4/4/2011		<2	<2							<2
Toxaphene	7440-66-6	ug/L	10/13/2011			<2							
Toxaphene	7440-66-6	ug/L	4/11/2012		<2	<2							
Toxaphene	7440-66-6	ug/L	10/11/2012		<2	<2							
Toxaphene	7440-66-6	ug/L	3/30/2013		<2	<2				<2			
Toxaphene	7440-66-6	ug/L	10/7/2013							<2.02			
Toxaphene	7440-66-6	ug/L	6/2/2014		<2.08	<2							
Toxaphene	7440-66-6	ug/L	10/15/2014		<2	<2					<2		
Toxaphene	7440-66-6	ug/L	4/6/2015		<2	<2							
Toxaphene	7440-66-6	ug/L	10/5/2015	<2.06	<2	<2		<2.02	<2.04		<2.38	<2	
Toxaphene	7440-66-6	ug/L	4/4/2016		<2	<2							<2.08
Toxaphene	7440-66-6	ug/L	10/17/2016		<2	<2.02							
Toxaphene	7440-66-6	ug/L	4/17/2017				<2.11						
Toxaphene	7440-66-6	ug/L	3/30/2020	<2.11	<2.08	<2.08		<2.13	<2.06		<2.11	<2.11	
Toxaphene	7440-66-6	ug/L	10/20/2021										<0.2
Toxaphene	7440-66-6	ug/L	5/2/2022				<0.2						
trans-1,2-Dichloroethene	7440-66-5	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-5	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-5	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-5	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-5	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-5	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-5	ug/L	7/7/2009								<1	<1	
trans-1,2-Dichloroethene	7440-66-5	ug/L	9/2/2009								<1	<1	

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1		<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	1/2/2010								<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/3/2010								<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/8/2010										<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	9/13/2010										<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1		<1	<1		
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2011										<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	12/5/2011						<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	6/25/2012						<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	8/1/2012						<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	12/13/2012						<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	2/4/2013						<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/20/2018						<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/20/2021						<1				<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2022						<1				<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/1/2023				<1		<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2023						<1				<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/29/2024						<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/10/2024										<1.00
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2024						<1.00				
trans-1,3-Dichloropropene	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	7/7/2009								<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	9/2/2009								<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<10	<5		<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	1/2/2010								<10	<10	
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/3/2010								<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5		<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	7/8/2010										<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	9/13/2010										<10
trans-1,3-Dichloropropene	7440-66-6	ug/L	11/1/2010	<10	<5	<5	<10	<10			<5	<10	
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2011										<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5			<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	12/5/2011						<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5		<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	6/25/2012						<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	8/1/2012						<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	12/13/2012						<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	2/4/2013						<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/6/2015	<5	<5	<5		<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/5/2015	<5	<5	<5		<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/17/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/20/2018						<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/24/2018				<5	<5			<5		
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/25/2018	<5	<5	<5				<5		<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/20/2021						<1				<1
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/2/2022				0.4J		<1	<1			<1
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/14/2022						<1				<1
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/1/2023				<5		<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2023						<5				<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/29/2024						<5	<5			<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/10/2024										<5.00
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2024						<5.00				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	7/7/2009								<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	9/2/2009								<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10		<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	1/2/2010								<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/3/2010								<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10		<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	7/8/2010									<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	9/13/2010										<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10		<10	<10		
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/4/2011										<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10		<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	12/5/2011						<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/11/2012	<20	<20	<20	<20	<10	<10		<20	<20	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	6/25/2012						<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	8/1/2012						<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	12/13/2012						<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	2/4/2013						<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/7/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/20/2018						<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/24/2018				<10	<10			<10		
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/25/2018	<10	<10	<10				<10		<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/20/2021						<5				<5
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/2/2022				<5		<5	<5			<5
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/14/2022						<5				<5
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/1/2023				<10		<10	<10		<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/16/2023						<10				<10

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/29/2024						<10	<10			<10
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/10/2024										
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/11/2024						<10.0				<10.0
Trichloroethene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
Trichloroethene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
Trichloroethene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
Trichloroethene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
Trichloroethene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
Trichloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Trichloroethene	7440-66-6	ug/L	7/7/2009								<1	<1	
Trichloroethene	7440-66-6	ug/L	9/2/2009								<1	<1	
Trichloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1		<1	<1	
Trichloroethene	7440-66-6	ug/L	1/2/2010								<1	<1	
Trichloroethene	7440-66-6	ug/L	3/3/2010								<1	<1	<1
Trichloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
Trichloroethene	7440-66-6	ug/L	7/8/2010										<1
Trichloroethene	7440-66-6	ug/L	9/13/2010										<1
Trichloroethene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
Trichloroethene	7440-66-6	ug/L	4/4/2011										<1
Trichloroethene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
Trichloroethene	7440-66-6	ug/L	12/5/2011						<1				
Trichloroethene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
Trichloroethene	7440-66-6	ug/L	6/25/2012						<1				
Trichloroethene	7440-66-6	ug/L	8/1/2012						<1	<1			
Trichloroethene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	12/13/2012						<1	<1			
Trichloroethene	7440-66-6	ug/L	2/4/2013						<1	<1			
Trichloroethene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/20/2018						<1				
Trichloroethene	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
Trichloroethene	7440-66-6	ug/L	4/25/2018	<1	<1	<1				<1		<1	<1
Trichloroethene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/20/2021						<1				0.4J
Trichloroethene	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Trichloroethene	7440-66-6	ug/L	10/14/2022						<1				<1
Trichloroethene	7440-66-6	ug/L	5/1/2023				<1		<1	<1		<1	<1
Trichloroethene	7440-66-6	ug/L	10/16/2023						<1				<1
Trichloroethene	7440-66-6	ug/L	4/29/2024						<1	<1			<1
Trichloroethene	7440-66-6	ug/L	10/10/2024										<1.00
Trichloroethene	7440-66-6	ug/L	10/11/2024						<1.00				
Trichlorofluoromethane	7440-66-6	ug/L	2/27/2008	<4	<4	<4	<4	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	5/12/2008	<4	<4	<4	<4	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	7/13/2008	<4	<4	<4	<4	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	9/14/2008	<4	<4	<4	<4	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	11/17/2008	<4	<4	<4	<4	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	4/14/2009	<4	<4	<4	<4	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	7/7/2009								<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	9/2/2009								<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	10/25/2009	<4	<4	<4	<4	<4	<4		<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	1/2/2010								<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	3/3/2010								<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4			<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	7/8/2010										<4
Trichlorofluoromethane	7440-66-6	ug/L	9/13/2010										<4
Trichlorofluoromethane	7440-66-6	ug/L	11/1/2010	<4	<4	<4	<4	<4			<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	4/4/2011										<4
Trichlorofluoromethane	7440-66-6	ug/L	10/13/2011	<4	<4	<4	<4	<4			<4	<4	<4

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Trichlorofluoromethane	7440-66-6	ug/L	12/5/2011						<4				
Trichlorofluoromethane	7440-66-6	ug/L	4/11/2012	<4	<4	<4	<4	<4	<4		<4		<4
Trichlorofluoromethane	7440-66-6	ug/L	6/25/2012						<4				
Trichlorofluoromethane	7440-66-6	ug/L	8/1/2012						<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2012	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	12/13/2012						<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	2/4/2013						<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	3/30/2013	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/7/2013	<4	<4		<4	<4	<4	<4	<4		<4
Trichlorofluoromethane	7440-66-6	ug/L	6/2/2014	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/15/2014	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/6/2015	<4	<4	<4		<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/5/2015	<4	<4	<4		<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/4/2016	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/17/2016	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/17/2017	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2017	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/20/2018						<4				
Trichlorofluoromethane	7440-66-6	ug/L	4/24/2018				<4	<4			<4		
Trichlorofluoromethane	7440-66-6	ug/L	4/25/2018	<4	<4	<4				<4		<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/16/2018	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/16/2019	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/1/2019	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	3/30/2020	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/7/2020	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	10/20/2021						<1				<1
Trichlorofluoromethane	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Trichlorofluoromethane	7440-66-6	ug/L	10/14/2022						<1				<1
Trichlorofluoromethane	7440-66-6	ug/L	5/1/2023				<4		<4	<4		<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/16/2023						<4				<4
Trichlorofluoromethane	7440-66-6	ug/L	4/29/2024						<4	<4			<4
Trichlorofluoromethane	7440-66-6	ug/L	10/10/2024										<4.00
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2024						<4.00				
Vanadium	7440-66-6	mg/L	2/27/2008	<0.05	<0.05	<0.05	<0.05	<0.05	0.0642				
Vanadium	7440-66-6	mg/L	5/12/2008	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	7/13/2008	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	9/14/2008	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	11/17/2008	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	4/14/2009	<0.05	<0.05	0.0624	<0.05	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	7/7/2009			<0.05					<0.05	<0.05	
Vanadium	7440-66-6	mg/L	9/2/2009			<0.05					<0.05	<0.05	
Vanadium	7440-66-6	mg/L	10/25/2009	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	
Vanadium	7440-66-6	mg/L	1/2/2010			<0.05					<0.05	<0.05	
Vanadium	7440-66-6	mg/L	3/3/2010								<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	5/10/2010	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
Vanadium	7440-66-6	mg/L	7/8/2010										<0.05
Vanadium	7440-66-6	mg/L	9/13/2010										<0.05
Vanadium	7440-66-6	mg/L	11/1/2010	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05	
Vanadium	7440-66-6	mg/L	4/4/2011			<0.05							<0.05
Vanadium	7440-66-6	mg/L	10/13/2011	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	12/5/2011						<0.05				
Vanadium	7440-66-6	mg/L	4/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	6/25/2012						<0.05				
Vanadium	7440-66-6	mg/L	8/1/2012						<0.05	<0.05			
Vanadium	7440-66-6	mg/L	10/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.129
Vanadium	7440-66-6	mg/L	12/13/2012						<0.05	<0.05			
Vanadium	7440-66-6	mg/L	3/30/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	10/7/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	6/2/2014	<0.05	<0.05	<0.05	<0.05	<0.05	0.00343J	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	10/15/2014	0.00362J; 0.00379J	0.00376J	<0.05	<0.05	<0.05	0.00855J	0.00308J	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	4/6/2015	0.00174J	0.000472J	0.00101J		<0.005	0.000898J	0.00111J	<0.005	0.000584J	0.000489J
Vanadium	7440-66-6	mg/L	10/5/2015	0.00355J	<0.005	0.00109J		<0.005	0.00623	0.00128J	<0.005	0.00232J	<0.005
Vanadium	7440-66-6	mg/L	4/4/2016	0.000599J	<0.005	0.000947J	<0.005	<0.005	0.000663J	0.00109J	<0.005	0.000753J; 0.000799J	0.000373J
Vanadium	7440-66-6	mg/L	10/17/2016	0.00299J	0.000277J	0.0011J	<0.005	<0.005; 0.000261J	0.000763J	0.00146J	0.000362J	0.00216J	<0.005
Vanadium	7440-66-6	mg/L	4/17/2017	0.000949J	0.00085J; <0.005	0.0014J	<0.005	<0.005	<0.005	0.00131J	<0.005	0.00149J	<0.005
Vanadium	7440-66-6	mg/L	10/11/2017	<0.005	<0.005	0.00729	<0.005	<0.005	0.00504	0.00169J	<0.005	0.001J	<0.005
Vanadium	7440-66-6	mg/L	4/20/2018						0.003J				
Vanadium	7440-66-6	mg/L	4/24/2018				<0.005	<0.005			<0.005		
Vanadium	7440-66-6	mg/L	4/25/2018	0.00234J	<0.02	0.00247J				0.00149J		0.000698J	<0.005
Vanadium	7440-66-6	mg/L	10/16/2018	0.00518	0.00303J; 0.00311J	0.00504	0.00354J	0.00398J	0.0117	0.0302	0.00348J	0.00421J	<0.005

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Vanadium	7440-66-6	mg/L	4/16/2019	<0.005	<0.005	0.00115J	<0.005	<0.005	<0.005	0.00179J	<0.005	0.00174J	<0.005
Vanadium	7440-66-6	mg/L	10/1/2019	0.00125J	<0.005	0.00178J	<0.005	<0.005	0.00101J; 0.00087J	0.00183J	<0.005	0.00161J	<0.005
Vanadium	7440-66-6	mg/L	3/30/2020	0.00119J	<0.005	0.00177J	<0.005	<0.005	0.00118J	0.00157J	<0.005	0.00203J	<0.005
Vanadium	7440-66-6	mg/L	10/7/2020	<0.005	<0.005	0.00306J	<0.005	<0.005	<0.005	0.00275J	<0.005	0.00184J; 0.00183J	<0.005
Vanadium	7440-66-6	mg/L	4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vanadium	7440-66-6	mg/L	10/20/2021						<0.02				<0.02
Vanadium	7440-66-6	mg/L	5/2/2022				<0.02		<0.02	<0.02			<0.02
Vanadium	7440-66-6	mg/L	10/14/2022						<0.02				<0.02
Vanadium	7440-66-6	mg/L	5/1/2023						<0.005	0.00271J			0.00176J
Vanadium	7440-66-6	mg/L	10/16/2023						<0.005				<0.005
Vanadium	7440-66-6	mg/L	4/29/2024						<0.005	0.00144J			<0.005
Vanadium	7440-66-6	mg/L	10/10/2024										<0.00500
Vanadium	7440-66-6	mg/L	10/11/2024						<0.00500				
Vinyl Acetate	7440-66-5	ug/L	2/27/2008		<2	<2	<2	<2	<2				
Vinyl Acetate	7440-66-5	ug/L	5/12/2008	<2.5	<2	<2.5	<2	<2.5	<2.5				
Vinyl Acetate	7440-66-5	ug/L	7/13/2008	<2	<2	<2	<2	<2	<2				
Vinyl Acetate	7440-66-5	ug/L	9/14/2008	<2	<2	<2	<2	<2	<2				
Vinyl Acetate	7440-66-5	ug/L	11/17/2008	<2	<2	<2	<2	<2	<2				
Vinyl Acetate	7440-66-5	ug/L	4/14/2009	<2	<2	<2	<2	<2	<2				
Vinyl Acetate	7440-66-5	ug/L	7/7/2009							<2		<2	
Vinyl Acetate	7440-66-5	ug/L	9/2/2009							<2		<2	
Vinyl Acetate	7440-66-5	ug/L	10/25/2009	<2	<2	<2	<2	<2	<2			<2	
Vinyl Acetate	7440-66-5	ug/L	1/2/2010							<2		<2	
Vinyl Acetate	7440-66-5	ug/L	3/3/2010								<2	<2	<2
Vinyl Acetate	7440-66-5	ug/L	5/10/2010	<2	<2	<2	<2	<2	<2			<2	<2
Vinyl Acetate	7440-66-5	ug/L	7/8/2010										<2
Vinyl Acetate	7440-66-5	ug/L	9/13/2010										<2
Vinyl Acetate	7440-66-5	ug/L	11/1/2010	<2	<5	<5	<2	<2			<2	<2	<2
Vinyl Acetate	7440-66-5	ug/L	4/4/2011										<2
Vinyl Acetate	7440-66-5	ug/L	10/13/2011	<50	<2	<10	<10	<10			<50	<10	<50
Vinyl Acetate	7440-66-5	ug/L	12/5/2011						<2				
Vinyl Acetate	7440-66-5	ug/L	4/11/2012	<20	<20	<20	<20	<2	<20		<20	<20	<2
Vinyl Acetate	7440-66-5	ug/L	6/25/2012										
Vinyl Acetate	7440-66-5	ug/L	8/1/2012						<4	<20			
Vinyl Acetate	7440-66-5	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<10	<10	<2
Vinyl Acetate	7440-66-5	ug/L	12/13/2012						<2	<2			
Vinyl Acetate	7440-66-5	ug/L	2/4/2013						<2	<2			
Vinyl Acetate	7440-66-5	ug/L	3/30/2013	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Vinyl Acetate	7440-66-5	ug/L	10/7/2013	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Vinyl Acetate	7440-66-5	ug/L	6/2/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Vinyl Acetate	7440-66-5	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	4/20/2018						<10				
Vinyl Acetate	7440-66-5	ug/L	4/24/2018				<10	<10			<10		
Vinyl Acetate	7440-66-5	ug/L	4/25/2018	<10	<10	<10				<10		<10	<10
Vinyl Acetate	7440-66-5	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-5	ug/L	4/13/2021	<5	<5	<5		<5	<5	<5	<5	<5	<5
Vinyl Acetate	7440-66-5	ug/L	10/20/2021						<5				<5
Vinyl Acetate	7440-66-5	ug/L	5/2/2022				<5		<5	<5			<5
Vinyl Acetate	7440-66-5	ug/L	10/14/2022						<5				<5
Vinyl Acetate	7440-66-5	ug/L	5/1/2023				<10		<10			<10	<10
Vinyl Acetate	7440-66-5	ug/L	10/16/2023						<10				<10
Vinyl Acetate	7440-66-5	ug/L	4/29/2024						<10	<10			<10
Vinyl acetate	7440-66-5	ug/L	10/10/2024										<10.0
Vinyl acetate	7440-66-5	ug/L	10/11/2024						<10.0				
Vinyl Chloride	7440-66-5	ug/L	2/27/2008	<1	<1	<1	<1	<1	<1				
Vinyl Chloride	7440-66-5	ug/L	5/12/2008	<1	<1	<1	<1	<1	<1				
Vinyl Chloride	7440-66-5	ug/L	7/13/2008	<1	<1	<1	<1	<1	<1				
Vinyl Chloride	7440-66-5	ug/L	9/14/2008	<1	<1	<1	<1	<1	<1				
Vinyl Chloride	7440-66-5	ug/L	11/17/2008	<1	<1	<1	<1	<1	<1				
Vinyl Chloride	7440-66-5	ug/L	4/14/2009	<1	<1	<1	<1	<1	<1				
Vinyl Chloride	7440-66-5	ug/L	7/7/2009								<1	<1	

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Vinyl Chloride	7440-66-6	ug/L	9/2/2009								<1	<1	
Vinyl Chloride	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1		<1	<1	
Vinyl Chloride	7440-66-6	ug/L	1/2/2010								<1	<1	
Vinyl Chloride	7440-66-6	ug/L	3/3/2010								<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1			<1	<1
Vinyl Chloride	7440-66-6	ug/L	7/8/2010										<1
Vinyl Chloride	7440-66-6	ug/L	9/13/2010										<1
Vinyl Chloride	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1			<1	<1	
Vinyl Chloride	7440-66-6	ug/L	4/4/2011										<1
Vinyl Chloride	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1			<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	12/5/2011						<1				
Vinyl Chloride	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1		<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	6/25/2012						<1				
Vinyl Chloride	7440-66-6	ug/L	8/1/2012						<1	<1			
Vinyl Chloride	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	12/13/2012						<1	<1			
Vinyl Chloride	7440-66-6	ug/L	2/4/2013						<1	<1			
Vinyl Chloride	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/6/2015	<1	<1	0.202J		<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/5/2015	<1	<1	<1		<1	<1	<1	0.102J	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/4/2016	<1	0.2J	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/17/2016	<1	0.12J	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/17/2017	<1	0.422J; 0.371J	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/11/2017	<1	0.433J; 0.485J	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/20/2018						<1				
Vinyl Chloride	7440-66-6	ug/L	4/24/2018				<1	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	4/25/2018	<1	0.317J	<1				<1		<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/1/2019	<1	0.448J	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	3/30/2020	<1	0.385J	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/20/2021						<1				<1
Vinyl Chloride	7440-66-6	ug/L	5/2/2022				<1		<1	<1			<1
Vinyl Chloride	7440-66-6	ug/L	10/14/2022						<1				
Vinyl Chloride	7440-66-6	ug/L	5/1/2023				<1		<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/16/2023						<1				<1
Vinyl Chloride	7440-66-6	ug/L	4/29/2024						<1	<1			<1
Vinyl chloride	7440-66-6	ug/L	10/10/2024										<1.00
Vinyl chloride	7440-66-6	ug/L	10/11/2024						<1.00				
Xylenes, Total	7440-66-6	ug/L	2/27/2008	<3	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	5/12/2008	<3	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	7/13/2008	<3	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	9/14/2008	<3	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	11/17/2008	<3	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	4/14/2009	<3	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	7/7/2009								<3	<3	
Xylenes, Total	7440-66-6	ug/L	9/2/2009								<3	<3	
Xylenes, Total	7440-66-6	ug/L	10/25/2009	<6	<6	<6	<6	<3	<6		<6	<6	
Xylenes, Total	7440-66-6	ug/L	1/2/2010								<3	<3	
Xylenes, Total	7440-66-6	ug/L	3/3/2010								<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	5/10/2010	<12	<12	<12	<12	<12	<12			<12	<12
Xylenes, Total	7440-66-6	ug/L	7/8/2010										<3
Xylenes, Total	7440-66-6	ug/L	9/13/2010										<3
Xylenes, Total	7440-66-6	ug/L	11/1/2010	<3	<3	<3	<3	<3			<3	<3	
Xylenes, Total	7440-66-6	ug/L	4/4/2011										<3
Xylenes, Total	7440-66-6	ug/L	10/13/2011	<3	<3	<3	<3	<3			<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	12/5/2011						<3				
Xylenes, Total	7440-66-6	ug/L	4/11/2012	<3	<3	<3	<3	<3	<3		<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	6/25/2012						<3				
Xylenes, Total	7440-66-6	ug/L	8/1/2012						<3	<3			
Xylenes, Total	7440-66-6	ug/L	10/11/2012	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	12/13/2012						<3	<3			
Xylenes, Total	7440-66-6	ug/L	2/4/2013						<3	<3			
Xylenes, Total	7440-66-6	ug/L	3/30/2013	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/7/2013	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	6/2/2014	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Xylenes, Total	7440-66-6	ug/L	10/15/2014	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/6/2015	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/5/2015	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/4/2016	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/17/2016	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/17/2017	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/11/2017	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/20/2018										
Xylenes, Total	7440-66-6	ug/L	4/24/2018				<3	<3			<3		
Xylenes, Total	7440-66-6	ug/L	4/25/2018	<3	<3	<3				<3		<3	<3
Xylenes, Total	7440-66-6	ug/L	10/16/2018	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/16/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/1/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	3/30/2020	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/7/2020	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/13/2021	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Xylenes, Total	7440-66-6	ug/L	10/20/2021										
Xylenes, Total	7440-66-6	ug/L	5/2/2022				<2		<2	<2			<2
Xylenes, Total	7440-66-6	ug/L	10/14/2022						<2				<2
Xylenes, Total	7440-66-6	ug/L	5/1/2023				<3		<3	<3		<3	<3
Xylenes, Total	7440-66-6	ug/L	10/16/2023						<3				<3
Xylenes, Total	7440-66-6	ug/L	4/29/2024						<3	<3			
Xylenes, Total	7440-66-6	ug/L	10/10/2024										<3.00
Xylenes, Total	7440-66-6	ug/L	10/11/2024						<3.00				
Zinc	7440-66-6	mg/L	2/27/2008	<0.1	<0.1	<0.1	<0.1	<0.1	0.101				
Zinc	7440-66-6	mg/L	5/12/2008	<0.1	0.167	<0.1	<0.1	<0.1	<0.1				
Zinc	7440-66-6	mg/L	7/13/2008	0.164	<0.1	<0.1	<0.1	<0.1	<0.1				
Zinc	7440-66-6	mg/L	9/14/2008	<0.1	0.116	0.126	<0.1	<0.1	<0.1				
Zinc	7440-66-6	mg/L	11/17/2008	0.131	0.0671	0.0316	0.0225	0.0289	<0.02				
Zinc	7440-66-6	mg/L	4/14/2009	<0.1	<0.1	0.146	<0.1	<0.1	<0.1				
Zinc	7440-66-6	mg/L	7/7/2009			<0.1					<0.1	<0.1	
Zinc	7440-66-6	mg/L	9/2/2009			<0.1					<0.1	<0.1	
Zinc	7440-66-6	mg/L	10/25/2009	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	
Zinc	7440-66-6	mg/L	1/2/2010			<0.1					<0.1	<0.1	
Zinc	7440-66-6	mg/L	3/3/2010								<0.1	<0.1	0.12
Zinc	7440-66-6	mg/L	5/10/2010	0.0765	0.0224	0.0745	<0.02	0.0273	<0.02			<0.02	0.0306
Zinc	7440-66-6	mg/L	7/8/2010								<0.1		<0.1
Zinc	7440-66-6	mg/L	9/13/2010								<0.1		<0.1
Zinc	7440-66-6	mg/L	11/1/2010								<0.1	<0.1	
Zinc	7440-66-6	mg/L	1/10/2011								0.0708		
Zinc	7440-66-6	mg/L	4/4/2011								<0.1	<0.1	0.0819
Zinc	7440-66-6	mg/L	7/8/2011										<0.1
Zinc	7440-66-6	mg/L	8/11/2011										<0.1
Zinc	7440-66-6	mg/L	10/13/2011	0.0488	<0.02	<0.02	<0.02	<0.02			0.0262	<0.02	0.027
Zinc	7440-66-6	mg/L	12/5/2011						<0.02				<0.02
Zinc	7440-66-6	mg/L	4/11/2012	0.041	0.0233	<0.02	<0.02	<0.02	0.0373		<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	6/25/2012						<0.02				
Zinc	7440-66-6	mg/L	8/1/2012						<0.02	<0.02			
Zinc	7440-66-6	mg/L	10/11/2012	0.0409	<0.02	0.0539	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.196
Zinc	7440-66-6	mg/L	12/13/2012						0.0407	0.0208			
Zinc	7440-66-6	mg/L	3/30/2013	0.111	0.0499	0.0505	0.0571	0.0391	0.032	<0.02	0.065	0.0328	0.0818
Zinc	7440-66-6	mg/L	10/7/2013	0.0945	0.0968	0.258	0.129	0.134	0.161	0.0269	0.135	0.152	0.193
Zinc	7440-66-6	mg/L	6/2/2014	<0.02	<0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/15/2014	<0.02	<0.02	<0.02	<0.02	<0.02	0.0326	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	4/6/2015	0.0138	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	mg/L	10/5/2015	0.0114	<0.01	<0.01	<0.01	0.0085J	0.0335	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	mg/L	4/4/2016	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00755J; <0.01	0.0348
Zinc	7440-66-6	mg/L	10/17/2016	0.0117	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00594J	0.0171	<0.01
Zinc	7440-66-6	mg/L	4/17/2017	0.0301	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/11/2017	<0.02	<0.02	<0.02	0.0144J	<0.02	0.022	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	4/20/2018						<0.02				
Zinc	7440-66-6	mg/L	4/24/2018				<0.02	<0.02			<0.02		
Zinc	7440-66-6	mg/L	4/25/2018	0.039	<0.08	<0.02	<0.02	<0.02		<0.02		<0.02	<0.02
Zinc	7440-66-6	mg/L	10/16/2018	0.0408	<0.02	<0.02	<0.02	<0.02	0.0159J	0.0324	0.00825J	<0.02	<0.02
Zinc	7440-66-6	mg/L	4/16/2019	0.0327	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/1/2019	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	3/30/2020	0.0191J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/7/2020	0.0128J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/20/2021				<0.02		<0.02	<0.02			<0.02
Zinc	7440-66-6	mg/L	5/2/2022				<0.02		<0.02	<0.02			<0.02

Table 9A
Analytical Data Summary - Series B HMSP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-5B	MW-7B1	MW-8B	MW-12B	MW-14B	MW-31B	MW-39B	MW-208B	MW-210B	MW-211B
				D	D	D	D	D	D	U	D	D	D
Zinc	7440-66-6	mg/L	10/14/2022						<0.02				<0.02
Zinc	7440-66-6	mg/L	5/1/2023						<0.02	<0.02			<0.02
Zinc	7440-66-6	mg/L	10/16/2023						<0.02				0.0151J
Zinc	7440-66-6	mg/L	4/29/2024						<0.02	<0.02			<0.02
Zinc	7440-66-6	mg/L	10/10/2024										<0.0200
Zinc	7440-66-6	mg/L	10/11/2024						<0.0200				

Table 9A
Analytical Data Summary - CAMP Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	2/27/2008				<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/12/2008				<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	7/13/2008				<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	9/14/2008				<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	11/17/2008				<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/14/2009				<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/25/2009				<1	<2				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/10/2010				<4	<4				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	11/1/2010				<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	12/7/2010						<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2013				<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/6/2015					<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/5/2015					<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2016					<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/17/2016					<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/17/2017					<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2017					<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/20/2018					<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2018					<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/16/2019					<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/1/2019					<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2020					<10				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2020					<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/13/2021					<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	2/27/2008				<1	14.7				
1,1,1-Trichloroethane	7440-66-6	ug/L	5/12/2008				<1	14.4				
1,1,1-Trichloroethane	7440-66-6	ug/L	7/13/2008				<1	12.1				
1,1,1-Trichloroethane	7440-66-6	ug/L	9/14/2008				<1	14.3				
1,1,1-Trichloroethane	7440-66-6	ug/L	11/17/2008				<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	4/14/2009				<1	18				
1,1,1-Trichloroethane	7440-66-6	ug/L	7/7/2009					16.2				
1,1,1-Trichloroethane	7440-66-6	ug/L	9/2/2009					18.2				
1,1,1-Trichloroethane	7440-66-6	ug/L	10/25/2009				<1	16.8				
1,1,1-Trichloroethane	7440-66-6	ug/L	1/2/2010					16.3				
1,1,1-Trichloroethane	7440-66-6	ug/L	5/10/2010				<4	17.2				
1,1,1-Trichloroethane	7440-66-6	ug/L	11/1/2010				<1	21.8				
1,1,1-Trichloroethane	7440-66-6	ug/L	12/7/2010						<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	4/4/2011					22.2				
1,1,1-Trichloroethane	7440-66-6	ug/L	10/13/2011				<1	21.1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	4/11/2012				<1	17.4	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2012				<1	14.6	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	3/30/2013				<1	16.6	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	10/7/2013				<1	14.7				
1,1,1-Trichloroethane	7440-66-6	ug/L	6/2/2014				<1	14.2	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	10/15/2014				<1	16.3	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	4/6/2015					12.9				
1,1,1-Trichloroethane	7440-66-6	ug/L	10/5/2015					9.85				
1,1,1-Trichloroethane	7440-66-6	ug/L	4/4/2016					6.29				
1,1,1-Trichloroethane	7440-66-6	ug/L	10/17/2016					9.28				
1,1,1-Trichloroethane	7440-66-6	ug/L	4/17/2017					<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2017					2.81				

Table 9A
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
1,1,1-Trichloroethane	7440-66-6	ug/L	4/20/2018					3.1				
1,1,1-Trichloroethane	7440-66-6	ug/L	10/16/2018					4.42				
1,1,1-Trichloroethane	7440-66-6	ug/L	4/16/2019					1.12				
1,1,1-Trichloroethane	7440-66-6	ug/L	10/1/2019					0.932J				
1,1,1-Trichloroethane	7440-66-6	ug/L	3/30/2020					<10				
1,1,1-Trichloroethane	7440-66-6	ug/L	10/7/2020					0.334J				
1,1,1-Trichloroethane	7440-66-6	ug/L	4/13/2021					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	2/27/2008				<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/12/2008				<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/13/2008				<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	9/14/2008				<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	11/17/2008				<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/14/2009				<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/25/2009				<1	<2				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/10/2010				<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	11/1/2010				<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	12/7/2010						<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2013				<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/6/2015					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/5/2015					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2016					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/17/2016					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/17/2017					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2017					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/20/2018					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2018					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/16/2019					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/1/2019					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2020					<10				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2020					<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/13/2021					<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	2/27/2008				<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	5/12/2008				<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	7/13/2008				<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	9/14/2008				<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	11/17/2008				<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/14/2009				<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	10/25/2009				<1	<2				
1,1,2-Trichloroethane	7440-66-6	ug/L	5/10/2010				<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	11/1/2010				<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	12/7/2010						<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2012				<1	<2	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	10/7/2013				<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	4/6/2015					<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	10/5/2015					<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/4/2016					<1				

Table 9A
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
1,1,2-Trichloroethane	7440-66-6	ug/L	10/17/2016					<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/17/2017					<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2017					<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/20/2018					<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	10/16/2018					<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/16/2019					<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	10/1/2019					<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	3/30/2020					<10				
1,1,2-Trichloroethane	7440-66-6	ug/L	10/7/2020					<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/13/2021					<1				
1,1-Dichloroethane	7440-66-6	ug/L	2/27/2008				<1	6.16				
1,1-Dichloroethane	7440-66-6	ug/L	5/12/2008				<1	8.39				
1,1-Dichloroethane	7440-66-6	ug/L	7/13/2008				<1	11.4				
1,1-Dichloroethane	7440-66-6	ug/L	9/14/2008				<1	15.4				
1,1-Dichloroethane	7440-66-6	ug/L	11/17/2008				<1	<1				
1,1-Dichloroethane	7440-66-6	ug/L	4/14/2009				<1	18.3				
1,1-Dichloroethane	7440-66-6	ug/L	7/7/2009					25.9				
1,1-Dichloroethane	7440-66-6	ug/L	9/2/2009					25.2				
1,1-Dichloroethane	7440-66-6	ug/L	10/25/2009				<1	22.7				
1,1-Dichloroethane	7440-66-6	ug/L	1/2/2010					30.9				
1,1-Dichloroethane	7440-66-6	ug/L	5/10/2010				<1	42.4				
1,1-Dichloroethane	7440-66-6	ug/L	11/1/2010				<1	60.4				
1,1-Dichloroethane	7440-66-6	ug/L	12/7/2010						<1			
1,1-Dichloroethane	7440-66-6	ug/L	4/4/2011					68.6				
1,1-Dichloroethane	7440-66-6	ug/L	10/13/2011				<1	79.8	<1			
1,1-Dichloroethane	7440-66-6	ug/L	4/11/2012				<1	90.8	<1			
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2012				<1	84.6	<1			
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2013				<1	117	<1			
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2013				<1	133				
1,1-Dichloroethane	7440-66-6	ug/L	6/2/2014				<1	200	<1			
1,1-Dichloroethane	7440-66-6	ug/L	10/15/2014				<1	238	<1			
1,1-Dichloroethane	7440-66-6	ug/L	4/6/2015					199				
1,1-Dichloroethane	7440-66-6	ug/L	10/5/2015					218				
1,1-Dichloroethane	7440-66-6	ug/L	4/4/2016					263				
1,1-Dichloroethane	7440-66-6	ug/L	10/17/2016					540				
1,1-Dichloroethane	7440-66-6	ug/L	4/17/2017					<1				
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2017					540				
1,1-Dichloroethane	7440-66-6	ug/L	4/20/2018					391				
1,1-Dichloroethane	7440-66-6	ug/L	10/16/2018					359				
1,1-Dichloroethane	7440-66-6	ug/L	4/16/2019					445				
1,1-Dichloroethane	7440-66-6	ug/L	10/1/2019					537				
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2020					427				
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2020					440				
1,1-Dichloroethane	7440-66-6	ug/L	4/13/2021					448				
1,1-Dichloroethene	7440-66-6	ug/L	2/27/2008				<2	9.87				
1,1-Dichloroethene	7440-66-6	ug/L	5/12/2008				<2	10.4				
1,1-Dichloroethene	7440-66-6	ug/L	7/13/2008				<2	6.79				
1,1-Dichloroethene	7440-66-6	ug/L	9/14/2008				<2	8.73				
1,1-Dichloroethene	7440-66-6	ug/L	11/17/2008				<2	7.4				
1,1-Dichloroethene	7440-66-6	ug/L	4/14/2009				<2	9.63				
1,1-Dichloroethene	7440-66-6	ug/L	7/7/2009					6.55				
1,1-Dichloroethene	7440-66-6	ug/L	9/2/2009					8.46				
1,1-Dichloroethene	7440-66-6	ug/L	10/25/2009				<2	8.93				
1,1-Dichloroethene	7440-66-6	ug/L	1/2/2010					12.2				
1,1-Dichloroethene	7440-66-6	ug/L	5/10/2010				<2	7.85				
1,1-Dichloroethene	7440-66-6	ug/L	11/1/2010				<2	11.2				
1,1-Dichloroethene	7440-66-6	ug/L	12/7/2010						<2			

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
1,1-Dichloroethene	7440-66-6	ug/L	4/4/2011					6.75				
1,1-Dichloroethene	7440-66-6	ug/L	10/13/2011				<2	6.55	<2			
1,1-Dichloroethene	7440-66-6	ug/L	4/11/2012				<2	5.96	<2			
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2012				<2	5.31	<2			
1,1-Dichloroethene	7440-66-6	ug/L	3/30/2013				<2	7.43	<2			
1,1-Dichloroethene	7440-66-6	ug/L	10/7/2013				<2	6.94				
1,1-Dichloroethene	7440-66-6	ug/L	6/2/2014				<2	6.53	<2			
1,1-Dichloroethene	7440-66-6	ug/L	10/15/2014				<2	7.67	<2			
1,1-Dichloroethene	7440-66-6	ug/L	4/6/2015					6.78				
1,1-Dichloroethene	7440-66-6	ug/L	10/5/2015					4.93				
1,1-Dichloroethene	7440-66-6	ug/L	4/4/2016					6.62				
1,1-Dichloroethene	7440-66-6	ug/L	10/17/2016					10				
1,1-Dichloroethene	7440-66-6	ug/L	4/17/2017					<2				
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2017					4.4				
1,1-Dichloroethene	7440-66-6	ug/L	4/20/2018					4.8				
1,1-Dichloroethene	7440-66-6	ug/L	10/16/2018					6				
1,1-Dichloroethene	7440-66-6	ug/L	4/16/2019					5.32				
1,1-Dichloroethene	7440-66-6	ug/L	10/1/2019					4.42				
1,1-Dichloroethene	7440-66-6	ug/L	3/30/2020					<20				
1,1-Dichloroethene	7440-66-6	ug/L	10/7/2020					3.5				
1,1-Dichloroethene	7440-66-6	ug/L	4/13/2021					2.9				
1,1-Dichloropropene	7440-66-6	ug/L	4/14/2009				<1	<1				
1,1-Dichloropropene	7440-66-6	ug/L	5/10/2010				<1	<1				
1,1-Dichloropropene	7440-66-6	ug/L	12/7/2010						<1			
1,1-Dichloropropene	7440-66-6	ug/L	10/5/2015					<1				
1,1-Dichloropropene	7440-66-6	ug/L	3/30/2020					<10				
1,2,3-Trichloropropane	7440-66-6	ug/L	2/27/2008				<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	5/12/2008				<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	7/13/2008				<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	9/14/2008				<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	11/17/2008				<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/14/2009				<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	10/25/2009				<1	<2				
1,2,3-Trichloropropane	7440-66-6	ug/L	5/10/2010				<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	11/1/2010				<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	12/7/2010						<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	10/13/2011				<4	<4	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	10/7/2013				<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	4/6/2015					<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	10/5/2015					<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/4/2016					<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	10/17/2016					<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/17/2017					<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2017					<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/20/2018					<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	10/16/2018					<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/16/2019					<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	10/1/2019					<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	3/30/2020					<10				
1,2,3-Trichloropropane	7440-66-6	ug/L	10/7/2020					<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/13/2021					<1				
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	4/14/2009				<10	<10				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	5/10/2010				<10	<10				
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	12/7/2010						<10			
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	10/5/2015					<10.2				
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	3/30/2020					<10.4				
1,2,4-Trichlorobenzene	7440-66-6	ug/L	4/14/2009				<5	<5				
1,2,4-Trichlorobenzene	7440-66-6	ug/L	5/10/2010				<10	<10				
1,2,4-Trichlorobenzene	7440-66-6	ug/L	12/7/2010						<5			
1,2,4-Trichlorobenzene	7440-66-6	ug/L	10/5/2015					<5				
1,2,4-Trichlorobenzene	7440-66-6	ug/L	3/30/2020					<50				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	2/27/2008				<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/12/2008				<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/13/2008				<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	9/14/2008				<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	11/17/2008				<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/14/2009				<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/25/2009				<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/10/2010				<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	11/1/2010				<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	12/7/2010						<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/13/2011				<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/11/2012				<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2012				<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/30/2013				<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/7/2013				<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	6/2/2014				<0.12	<0.12	<0.12			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/15/2014				<0.12	<0.12	<0.12			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/6/2015					<0.5				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/5/2015					<0.5				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/4/2016					<0.5				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/17/2016					<0.5				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/17/2017					<0.5				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2017					<0.5				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/20/2018					<0.5				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/16/2018					<1.2				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/16/2019					<1.2				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/1/2019					<1.2				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/30/2020					<12				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/7/2020					<1.2				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/13/2021					<0.02				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	2/27/2008				<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/12/2008				<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	7/13/2008				<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	9/14/2008				<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	11/17/2008				<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/14/2009				<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/25/2009				<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/10/2010				<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	11/1/2010				<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	12/7/2010						<10			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/13/2011				<10	<10	<10			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/11/2012				<10	<10	<10			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/11/2012				<10	<10	<10			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	3/30/2013				<10	<10	<10			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/7/2013				<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	6/2/2014				<0.13	<0.13	<0.13			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/15/2014				<0.13	<0.13	<0.13			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/6/2015					<0.13				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/5/2015					<0.13				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/4/2016					<0.13				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/17/2016					<0.13				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/17/2017					<0.13				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/11/2017					<0.13				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/20/2018					<0.13				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/16/2018					<0.34				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/16/2019					<0.34				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/1/2019					<0.34				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	3/30/2020					<3.4				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/7/2020					<0.34				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/13/2021					<0.02				
1,2-Dichlorobenzene	7440-66-6	ug/L	2/27/2008				<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	5/12/2008				<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	7/13/2008				<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	9/14/2008				<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	11/17/2008				<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/14/2009				<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	10/25/2009				<1	<2				
1,2-Dichlorobenzene	7440-66-6	ug/L	5/10/2010				<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	11/1/2010				<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	12/7/2010						<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	10/7/2013				<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	4/6/2015					<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	10/5/2015					<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/4/2016					<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	10/17/2016					<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/17/2017					<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2017					<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/20/2018					<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	10/16/2018					<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/16/2019					<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	10/1/2019					<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	3/30/2020					<10				
1,2-Dichlorobenzene	7440-66-6	ug/L	10/7/2020					<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/13/2021					<1				
1,2-Dichloroethane	7440-66-6	ug/L	2/27/2008				<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	5/12/2008				<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	7/13/2008				<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	9/14/2008				<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	11/17/2008				<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	4/14/2009				<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	10/25/2009				<1	<2				
1,2-Dichloroethane	7440-66-6	ug/L	5/10/2010				<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	11/1/2010				<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	12/7/2010						<1			
1,2-Dichloroethane	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	10/7/2013				<1	<1				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
1,2-Dichloroethane	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	4/6/2015					<1				
1,2-Dichloroethane	7440-66-6	ug/L	10/5/2015					<1				
1,2-Dichloroethane	7440-66-6	ug/L	4/4/2016					<1				
1,2-Dichloroethane	7440-66-6	ug/L	10/17/2016					<1				
1,2-Dichloroethane	7440-66-6	ug/L	4/17/2017					<1				
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2017					<1				
1,2-Dichloroethane	7440-66-6	ug/L	4/20/2018					<1				
1,2-Dichloroethane	7440-66-6	ug/L	10/16/2018					<1				
1,2-Dichloroethane	7440-66-6	ug/L	4/16/2019					<1				
1,2-Dichloroethane	7440-66-6	ug/L	10/1/2019					<1				
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2020					<10				
1,2-Dichloroethane	7440-66-6	ug/L	10/7/2020					<1				
1,2-Dichloroethane	7440-66-6	ug/L	4/13/2021					<1				
1,2-Dichloropropane	7440-66-6	ug/L	2/27/2008				<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	5/12/2008				<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	7/13/2008				<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	9/14/2008				<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	11/17/2008				<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	4/14/2009				<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	10/25/2009				<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	5/10/2010				<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	11/1/2010				<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	12/7/2010						<1			
1,2-Dichloropropane	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	10/7/2013				<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	4/6/2015					<1				
1,2-Dichloropropane	7440-66-6	ug/L	10/5/2015					<1				
1,2-Dichloropropane	7440-66-6	ug/L	4/4/2016					<1				
1,2-Dichloropropane	7440-66-6	ug/L	10/17/2016					<1				
1,2-Dichloropropane	7440-66-6	ug/L	4/17/2017					<1				
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2017					<1				
1,2-Dichloropropane	7440-66-6	ug/L	4/20/2018					<1				
1,2-Dichloropropane	7440-66-6	ug/L	10/16/2018					<1				
1,2-Dichloropropane	7440-66-6	ug/L	4/16/2019					0.416J				
1,2-Dichloropropane	7440-66-6	ug/L	10/1/2019					0.504J				
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2020					<10				
1,2-Dichloropropane	7440-66-6	ug/L	10/7/2020					0.597J				
1,2-Dichloropropane	7440-66-6	ug/L	4/13/2021					<1				
1,3,5-Trinitrobenzene	7440-66-6	ug/L	4/14/2009				<10	<10				
1,3,5-Trinitrobenzene	7440-66-6	ug/L	5/10/2010				<10	<10				
1,3,5-Trinitrobenzene	7440-66-6	ug/L	12/7/2010						<10			
1,3,5-Trinitrobenzene	7440-66-6	ug/L	10/5/2015					<10.2				
1,3,5-Trinitrobenzene	7440-66-6	ug/L	3/30/2020					<10.4				
1,3-Dichlorobenzene	7440-66-6	ug/L	4/14/2009				<1	<1				
1,3-Dichlorobenzene	7440-66-6	ug/L	5/10/2010				<1	<1				
1,3-Dichlorobenzene	7440-66-6	ug/L	12/7/2010						<1			
1,3-Dichlorobenzene	7440-66-6	ug/L	10/5/2015					<1				
1,3-Dichlorobenzene	7440-66-6	ug/L	3/30/2020					<10				
1,3-Dichloropropane	7440-66-6	ug/L	4/14/2009				<1	<1				
1,3-Dichloropropane	7440-66-6	ug/L	5/10/2010				<1	<1				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
1,3-Dichloropropane	7440-66-6	ug/L	12/7/2010						<1			
1,3-Dichloropropane	7440-66-6	ug/L	10/5/2015					<1				
1,3-Dichloropropane	7440-66-6	ug/L	3/30/2020					<10				
1,3-Dinitrobenzene	7440-66-6	ug/L	4/14/2009				<10	<10				
1,3-Dinitrobenzene	7440-66-6	ug/L	5/10/2010				<10	<10				
1,3-Dinitrobenzene	7440-66-6	ug/L	12/7/2010						<10			
1,3-Dinitrobenzene	7440-66-6	ug/L	10/5/2015					<10.2				
1,3-Dinitrobenzene	7440-66-6	ug/L	3/30/2020					<10.4				
1,4-Dichlorobenzene	7440-66-6	ug/L	2/27/2008				<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	5/12/2008				<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	7/13/2008				<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	9/14/2008				<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	11/17/2008				<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/14/2009				<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	10/25/2009				<1	<2				
1,4-Dichlorobenzene	7440-66-6	ug/L	5/10/2010				<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	11/1/2010				<2	<2				
1,4-Dichlorobenzene	7440-66-6	ug/L	12/7/2010						<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	10/7/2013				<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	4/6/2015					<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	10/5/2015					<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/4/2016					<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	10/17/2016					<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/17/2017					<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2017					<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/20/2018					<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	10/16/2018					<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/16/2019					<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	10/1/2019					<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2020					<10				
1,4-Dichlorobenzene	7440-66-6	ug/L	10/7/2020					<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/13/2021					<1				
1,4-Naphthoquinone	7440-66-6	ug/L	4/14/2009				<10	<10				
1,4-Naphthoquinone	7440-66-6	ug/L	5/10/2010				<10	<10				
1,4-Naphthoquinone	7440-66-6	ug/L	12/7/2010						<10			
1,4-Naphthoquinone	7440-66-6	ug/L	10/5/2015					<10.2				
1,4-Naphthoquinone	7440-66-6	ug/L	3/30/2020					<10.4				
1,4-Phenylenediamine	7440-66-6	ug/L	4/14/2009				<10	<10				
1,4-Phenylenediamine	7440-66-6	ug/L	5/10/2010				<10	<10				
1,4-Phenylenediamine	7440-66-6	ug/L	12/7/2010						<10			
1,4-Phenylenediamine	7440-66-6	ug/L	10/5/2015					<10.2				
1,4-Phenylenediamine	7440-66-6	ug/L	3/30/2020					<10.4				
1-Naphthylamine	7440-66-6	ug/L	4/14/2009				<10	<10				
1-Naphthylamine	7440-66-6	ug/L	5/10/2010				<10	<10				
1-Naphthylamine	7440-66-6	ug/L	12/7/2010						<10			
1-Naphthylamine	7440-66-6	ug/L	10/5/2015					<10.2				
1-Naphthylamine	7440-66-6	ug/L	3/30/2020					<10.4				
2,2-Dichloropropane	7440-66-6	ug/L	4/14/2009				<4	<4				
2,2-Dichloropropane	7440-66-6	ug/L	5/10/2010				<4	<4				
2,2-Dichloropropane	7440-66-6	ug/L	12/7/2010						<4			
2,2-Dichloropropane	7440-66-6	ug/L	10/5/2015					<4				

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				D	D	D	D	D	D	D	D	D
2,2-Dichloropropane	7440-66-6	ug/L	3/30/2020					<40				
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	4/14/2009				<10	<10				
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	5/10/2010				<10	<10				
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	12/7/2010						<10			
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	10/5/2015					<10.2				
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	3/30/2020					<10.4				
2,4,5-T [2C]	7440-66-6	ug/L	4/14/2009				<0.2	<0.2				
2,4,5-T [2C]	7440-66-6	ug/L	5/10/2010				<0.5	<0.5				
2,4,5-T [2C]	7440-66-6	ug/L	12/7/2010						<0.5			
2,4,5-T [2C]	7440-66-6	ug/L	10/5/2015					<1.06				
2,4,5-T [2C]	7440-66-6	ug/L	3/30/2020					<1.04				
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/14/2009				<0.2	<0.2				
2,4,5-TP [Silvex]	7440-66-6	ug/L	5/10/2010				<0.5	<0.5				
2,4,5-TP [Silvex]	7440-66-6	ug/L	12/7/2010						<0.5			
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/5/2015					<1.06				
2,4,5-TP [Silvex]	7440-66-6	ug/L	3/30/2020					<1.04				
2,4,5-Trichlorophenol	7440-66-6	ug/L	4/14/2009				<10	<10				
2,4,5-Trichlorophenol	7440-66-6	ug/L	5/10/2010				<10	<10				
2,4,5-Trichlorophenol	7440-66-6	ug/L	12/7/2010						<10			
2,4,5-Trichlorophenol	7440-66-6	ug/L	10/5/2015					<10.2				
2,4,5-Trichlorophenol	7440-66-6	ug/L	3/30/2020					<10.4				
2,4,6-Trichlorophenol	7440-66-6	ug/L	4/14/2009				<10	<10				
2,4,6-Trichlorophenol	7440-66-6	ug/L	5/10/2010				<10	<10				
2,4,6-Trichlorophenol	7440-66-6	ug/L	12/7/2010						<10			
2,4,6-Trichlorophenol	7440-66-6	ug/L	10/5/2015					<10.2				
2,4,6-Trichlorophenol	7440-66-6	ug/L	3/30/2020					<10.4				
2,4-D [2C]	7440-66-6	ug/L	4/14/2009				<1	<1				
2,4-D [2C]	7440-66-6	ug/L	5/10/2010				<1	<1				
2,4-D [2C]	7440-66-6	ug/L	12/7/2010						<1			
2,4-D [2C]	7440-66-6	ug/L	10/5/2015					<1.06				
2,4-D [2C]	7440-66-6	ug/L	3/30/2020					<1.04				
2,4-Dichlorophenol	7440-66-6	ug/L	4/14/2009				<10	<10				
2,4-Dichlorophenol	7440-66-6	ug/L	5/10/2010				<10	<10				
2,4-Dichlorophenol	7440-66-6	ug/L	12/7/2010						<10			
2,4-Dichlorophenol	7440-66-6	ug/L	10/5/2015					<10.2				
2,4-Dichlorophenol	7440-66-6	ug/L	3/30/2020					<10.4				
2,4-Dimethylphenol	7440-66-6	ug/L	4/14/2009				<10	<10				
2,4-Dimethylphenol	7440-66-6	ug/L	5/10/2010				<10	<10				
2,4-Dimethylphenol	7440-66-6	ug/L	12/7/2010						<10			
2,4-Dimethylphenol	7440-66-6	ug/L	10/5/2015					<10.2				
2,4-Dimethylphenol	7440-66-6	ug/L	3/30/2020					<10.4				
2,4-Dinitrophenol	7440-66-6	ug/L	4/14/2009				<20	<20				
2,4-Dinitrophenol	7440-66-6	ug/L	5/10/2010				<20	<20				
2,4-Dinitrophenol	7440-66-6	ug/L	12/7/2010						<20			
2,4-Dinitrophenol	7440-66-6	ug/L	10/5/2015					<20.4				
2,4-Dinitrophenol	7440-66-6	ug/L	3/30/2020					<20.8				
2,4-Dinitrotoluene	7440-66-6	ug/L	4/14/2009				<10	<10				
2,4-Dinitrotoluene	7440-66-6	ug/L	5/10/2010				<10	<10				
2,4-Dinitrotoluene	7440-66-6	ug/L	12/7/2010						<10			
2,4-Dinitrotoluene	7440-66-6	ug/L	10/5/2015					<10.2				
2,4-Dinitrotoluene	7440-66-6	ug/L	3/30/2020					<10.4				
2,6-Dichlorophenol	7440-66-6	ug/L	4/14/2009				<10	<10				
2,6-Dichlorophenol	7440-66-6	ug/L	5/10/2010				<10	<10				
2,6-Dichlorophenol	7440-66-6	ug/L	12/7/2010						<10			
2,6-Dichlorophenol	7440-66-6	ug/L	10/5/2015					<10.2				
2,6-Dichlorophenol	7440-66-6	ug/L	3/30/2020					<10.4				
2,6-Dinitrotoluene	7440-66-6	ug/L	4/14/2009				<10	<10				

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				D	D	D	D	D	D	D	D	D
2,6-Dinitrotoluene	7440-66-6	ug/L	5/10/2010				<10	<10				
2,6-Dinitrotoluene	7440-66-6	ug/L	12/7/2010						<10			
2,6-Dinitrotoluene	7440-66-6	ug/L	10/5/2015					<10.2				
2,6-Dinitrotoluene	7440-66-6	ug/L	3/30/2020					<10.4				
2-Acetylaminofluorene	7440-66-6	ug/L	4/14/2009				<10	<10				
2-Acetylaminofluorene	7440-66-6	ug/L	5/10/2010				<10	<10				
2-Acetylaminofluorene	7440-66-6	ug/L	12/7/2010						<10			
2-Acetylaminofluorene	7440-66-6	ug/L	10/5/2015					<10.2				
2-Acetylaminofluorene	7440-66-6	ug/L	3/30/2020					<10.4				
2-Butanone (MEK)	7440-66-6	ug/L	2/27/2008				<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	5/12/2008				<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	7/13/2008				<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	9/14/2008				<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	11/17/2008				<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	4/14/2009				<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	10/25/2009				<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	5/10/2010				<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	11/1/2010				<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	12/7/2010						<10			
2-Butanone (MEK)	7440-66-6	ug/L	10/13/2011				<10	<10	<10			
2-Butanone (MEK)	7440-66-6	ug/L	4/11/2012				<10	<10	<10			
2-Butanone (MEK)	7440-66-6	ug/L	10/11/2012				<10	<10	<10			
2-Butanone (MEK)	7440-66-6	ug/L	3/30/2013				<10	<10	<10			
2-Butanone (MEK)	7440-66-6	ug/L	10/7/2013				<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	6/2/2014				<10	<10	<10			
2-Butanone (MEK)	7440-66-6	ug/L	10/15/2014				<10	<10	<10			
2-Butanone (MEK)	7440-66-6	ug/L	4/6/2015					<10				
2-Butanone (MEK)	7440-66-6	ug/L	10/5/2015					<10				
2-Butanone (MEK)	7440-66-6	ug/L	4/4/2016					<10				
2-Butanone (MEK)	7440-66-6	ug/L	10/17/2016					<10				
2-Butanone (MEK)	7440-66-6	ug/L	4/17/2017					<10				
2-Butanone (MEK)	7440-66-6	ug/L	10/11/2017					<10				
2-Butanone (MEK)	7440-66-6	ug/L	4/20/2018					<10				
2-Butanone (MEK)	7440-66-6	ug/L	10/16/2018					<10				
2-Butanone (MEK)	7440-66-6	ug/L	4/16/2019					<10				
2-Butanone (MEK)	7440-66-6	ug/L	10/1/2019					<10				
2-Butanone (MEK)	7440-66-6	ug/L	3/30/2020					<100				
2-Butanone (MEK)	7440-66-6	ug/L	10/7/2020					<10				
2-Butanone (MEK)	7440-66-6	ug/L	4/13/2021					<5				
2-Chloronaphthalene	7440-66-6	ug/L	4/14/2009				<10	<10				
2-Chloronaphthalene	7440-66-6	ug/L	5/10/2010				<10	<10				
2-Chloronaphthalene	7440-66-6	ug/L	12/7/2010						<10			
2-Chloronaphthalene	7440-66-6	ug/L	10/5/2015					<10.2				
2-Chloronaphthalene	7440-66-6	ug/L	3/30/2020					<10.4				
2-Chlorophenol	7440-66-6	ug/L	4/14/2009				<10	<10				
2-Chlorophenol	7440-66-6	ug/L	5/10/2010				<10	<10				
2-Chlorophenol	7440-66-6	ug/L	12/7/2010						<10			
2-Chlorophenol	7440-66-6	ug/L	10/5/2015					<10.2				
2-Chlorophenol	7440-66-6	ug/L	3/30/2020					<10.4				
2-Hexanone	7440-66-6	ug/L	2/27/2008				<10	<10				
2-Hexanone	7440-66-6	ug/L	5/12/2008				<10	<10				
2-Hexanone	7440-66-6	ug/L	7/13/2008				<10	<10				
2-Hexanone	7440-66-6	ug/L	9/14/2008				<10	<10				
2-Hexanone	7440-66-6	ug/L	11/17/2008				<10	<10				
2-Hexanone	7440-66-6	ug/L	4/14/2009				<10	<10				
2-Hexanone	7440-66-6	ug/L	10/25/2009				<10	<10				
2-Hexanone	7440-66-6	ug/L	5/10/2010				<20	<20				

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				D	D	D	D	D	D	D	D	D
2-Hexanone	7440-66-6	ug/L	11/1/2010				<10	<10				
2-Hexanone	7440-66-6	ug/L	12/7/2010						<10			
2-Hexanone	7440-66-6	ug/L	10/13/2011				<10	<10	<10			
2-Hexanone	7440-66-6	ug/L	4/11/2012				<10	<10	<10			
2-Hexanone	7440-66-6	ug/L	10/11/2012				<10	<10	<10			
2-Hexanone	7440-66-6	ug/L	3/30/2013				<10	<10	<10			
2-Hexanone	7440-66-6	ug/L	10/7/2013				<10	<10				
2-Hexanone	7440-66-6	ug/L	6/2/2014				<10	<10	<10			
2-Hexanone	7440-66-6	ug/L	10/15/2014				<10	<10	<10			
2-Hexanone	7440-66-6	ug/L	4/6/2015					<10				
2-Hexanone	7440-66-6	ug/L	10/5/2015					<10				
2-Hexanone	7440-66-6	ug/L	4/4/2016					<10				
2-Hexanone	7440-66-6	ug/L	10/17/2016					<10				
2-Hexanone	7440-66-6	ug/L	4/17/2017					<10				
2-Hexanone	7440-66-6	ug/L	10/11/2017					<10				
2-Hexanone	7440-66-6	ug/L	4/20/2018					<10				
2-Hexanone	7440-66-6	ug/L	10/16/2018					<10				
2-Hexanone	7440-66-6	ug/L	4/16/2019					<10				
2-Hexanone	7440-66-6	ug/L	10/1/2019					<10				
2-Hexanone	7440-66-6	ug/L	3/30/2020					<100				
2-Hexanone	7440-66-6	ug/L	10/7/2020					<10				
2-Hexanone	7440-66-6	ug/L	4/13/2021					<5				
2-Methylnaphthalene	7440-66-6	ug/L	4/14/2009				<10	<10				
2-Methylnaphthalene	7440-66-6	ug/L	5/10/2010				<10	<10				
2-Methylnaphthalene	7440-66-6	ug/L	12/7/2010						<10			
2-Methylnaphthalene	7440-66-6	ug/L	10/5/2015					<10.2				
2-Methylnaphthalene	7440-66-6	ug/L	3/30/2020					<10.4				
2-Methylphenol	7440-66-6	ug/L	4/14/2009				<10	<10				
2-Methylphenol	7440-66-6	ug/L	5/10/2010				<10	<10				
2-Methylphenol	7440-66-6	ug/L	12/7/2010						<10			
2-Methylphenol	7440-66-6	ug/L	10/5/2015					<10.2				
2-Methylphenol	7440-66-6	ug/L	3/30/2020					<10.4				
2-Naphthylamine	7440-66-6	ug/L	4/14/2009				<10	<10				
2-Naphthylamine	7440-66-6	ug/L	5/10/2010				<10	<10				
2-Naphthylamine	7440-66-6	ug/L	12/7/2010						<10			
2-Naphthylamine	7440-66-6	ug/L	10/5/2015					<10.2				
2-Naphthylamine	7440-66-6	ug/L	3/30/2020					<10.4				
2-Nitroaniline	7440-66-6	ug/L	4/14/2009				<10	<10				
2-Nitroaniline	7440-66-6	ug/L	5/10/2010				<10	<10				
2-Nitroaniline	7440-66-6	ug/L	12/7/2010						<10			
2-Nitroaniline	7440-66-6	ug/L	10/5/2015					<10.2				
2-Nitroaniline	7440-66-6	ug/L	3/30/2020					<10.4				
2-Nitrophenol	7440-66-6	ug/L	4/14/2009				<10	<10				
2-Nitrophenol	7440-66-6	ug/L	5/10/2010				<10	<10				
2-Nitrophenol	7440-66-6	ug/L	12/7/2010						<10			
2-Nitrophenol	7440-66-6	ug/L	10/5/2015					<10.2				
2-Nitrophenol	7440-66-6	ug/L	3/30/2020					<10.4				
3,3-Dichlorobenzidine	7440-66-6	ug/L	4/14/2009				<85	<85				
3,3-Dichlorobenzidine	7440-66-6	ug/L	5/10/2010				<10	<10				
3,3-Dichlorobenzidine	7440-66-6	ug/L	12/7/2010						<10			
3,3-Dichlorobenzidine	7440-66-6	ug/L	10/5/2015					<51				
3,3-Dichlorobenzidine	7440-66-6	ug/L	3/30/2020					<10.4				
3,3-Dimethylbenzidine	7440-66-6	ug/L	4/14/2009				<20	<20				
3,3-Dimethylbenzidine	7440-66-6	ug/L	5/10/2010				<10	<10				
3,3-Dimethylbenzidine	7440-66-6	ug/L	12/7/2010						<10			
3,3-Dimethylbenzidine	7440-66-6	ug/L	10/5/2015					<10.2				
3,3-Dimethylbenzidine	7440-66-6	ug/L	3/30/2020					<10.4				

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				D	D	D	D	D	D	D	D	D
3-Methylcholanthrene	7440-66-6	ug/L	4/14/2009				<10	<10				
3-Methylcholanthrene	7440-66-6	ug/L	5/10/2010				<10	<10				
3-Methylcholanthrene	7440-66-6	ug/L	12/7/2010						<10			
3-Methylcholanthrene	7440-66-6	ug/L	10/5/2015					<10.2				
3-Methylcholanthrene	7440-66-6	ug/L	3/30/2020					<10.4				
3-Nitroaniline	7440-66-6	ug/L	4/14/2009				<10	<10				
3-Nitroaniline	7440-66-6	ug/L	5/10/2010				<10	<10				
3-Nitroaniline	7440-66-6	ug/L	12/7/2010						<10			
3-Nitroaniline	7440-66-6	ug/L	10/5/2015					<10.2				
3-Nitroaniline	7440-66-6	ug/L	3/30/2020					<10.4				
4,4'-DDD	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
4,4'-DDD	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
4,4'-DDD	7440-66-6	ug/L	12/7/2010						<0.032			
4,4'-DDD	7440-66-6	ug/L	10/5/2015					<0.0333				
4,4'-DDD	7440-66-6	ug/L	3/30/2020					<0.033				
4,4'-DDE	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
4,4'-DDE	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
4,4'-DDE	7440-66-6	ug/L	12/7/2010						<0.032			
4,4'-DDE	7440-66-6	ug/L	10/5/2015					<0.0333				
4,4'-DDE	7440-66-6	ug/L	3/30/2020					<0.033				
4,4'-DDT	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
4,4'-DDT	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
4,4'-DDT	7440-66-6	ug/L	12/7/2010						<0.032			
4,4'-DDT	7440-66-6	ug/L	10/5/2015					<0.0333				
4,4'-DDT	7440-66-6	ug/L	3/30/2020					<0.033				
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	4/14/2009				<10	<10				
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	5/10/2010				<10	<10				
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	12/7/2010						<10			
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	10/5/2015					<10.2				
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	3/30/2020					<10.4				
4-Aminobiphenyl	7440-66-6	ug/L	4/14/2009				<20	<20				
4-Aminobiphenyl	7440-66-6	ug/L	5/10/2010				<10	<10				
4-Aminobiphenyl	7440-66-6	ug/L	12/7/2010						<10			
4-Aminobiphenyl	7440-66-6	ug/L	10/5/2015					<10.2				
4-Aminobiphenyl	7440-66-6	ug/L	3/30/2020					<10.4				
4-Bromophenyl phenyl ether	7440-66-6	ug/L	4/14/2009				<10	<10				
4-Bromophenyl phenyl ether	7440-66-6	ug/L	5/10/2010				<10	<10				
4-Bromophenyl phenyl ether	7440-66-6	ug/L	12/7/2010						<10			
4-Bromophenyl phenyl ether	7440-66-6	ug/L	10/5/2015					<10.2				
4-Bromophenyl phenyl ether	7440-66-6	ug/L	3/30/2020					<10.4				
4-Chloro-3-methylphenol	7440-66-6	ug/L	4/14/2009				<10	<10				
4-Chloro-3-methylphenol	7440-66-6	ug/L	5/10/2010				<10	<10				
4-Chloro-3-methylphenol	7440-66-6	ug/L	12/7/2010						<10			
4-Chloro-3-methylphenol	7440-66-6	ug/L	10/5/2015					<10.2				
4-Chloro-3-methylphenol	7440-66-6	ug/L	3/30/2020					<10.4				
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	4/14/2009				<10	<10				
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	5/10/2010				<10	<10				
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	12/7/2010						<10			
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	10/5/2015					<10.2				
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	3/30/2020					<10.4				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	2/27/2008				<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/12/2008				<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	7/13/2008				<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	9/14/2008				<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	11/17/2008				<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/14/2009				<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/25/2009				<10	<10				

Table 9A
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/10/2010				<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	11/1/2010				<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	12/7/2010						<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/13/2011				<10	<10	<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/11/2012				<10	<10	<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/11/2012				<10	<10	<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/30/2013				<10	<10	<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/7/2013				<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	6/2/2014				<10	<10	<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/15/2014				<10	<10	<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/6/2015					<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/5/2015					<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/4/2016					<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/17/2016					<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/17/2017					<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/11/2017					<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/20/2018					<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/16/2018					<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/16/2019					<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/1/2019					<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/30/2020					<100				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/7/2020					<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/13/2021					<5				
4-Nitroaniline	7440-66-6	ug/L	4/14/2009				<10	<10				
4-Nitroaniline	7440-66-6	ug/L	5/10/2010				<10	<10				
4-Nitroaniline	7440-66-6	ug/L	12/7/2010						<10			
4-Nitroaniline	7440-66-6	ug/L	10/5/2015					<10.2				
4-Nitroaniline	7440-66-6	ug/L	3/30/2020					<10.4				
4-Nitrophenol	7440-66-6	ug/L	4/14/2009				<10	<10				
4-Nitrophenol	7440-66-6	ug/L	5/10/2010				<10	<10				
4-Nitrophenol	7440-66-6	ug/L	12/7/2010						<10			
4-Nitrophenol	7440-66-6	ug/L	10/5/2015					<10.2				
4-Nitrophenol	7440-66-6	ug/L	3/30/2020					<10.4				
5-Nitro-o-toluidine	7440-66-6	ug/L	4/14/2009				<10	<10				
5-Nitro-o-toluidine	7440-66-6	ug/L	5/10/2010				<10	<10				
5-Nitro-o-toluidine	7440-66-6	ug/L	12/7/2010						<10			
5-Nitro-o-toluidine	7440-66-6	ug/L	10/5/2015					<10.2				
5-Nitro-o-toluidine	7440-66-6	ug/L	3/30/2020					<10.4				
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	4/14/2009				<10	<10				
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	5/10/2010				<10	<10				
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	12/7/2010						<10			
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	10/5/2015					<10.2				
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	3/30/2020					<10.4				
Acenaphthene	7440-66-6	ug/L	4/14/2009				<10	<10				
Acenaphthene	7440-66-6	ug/L	5/10/2010				<10	<10				
Acenaphthene	7440-66-6	ug/L	12/7/2010						<10			
Acenaphthene	7440-66-6	ug/L	10/5/2015					<10.2				
Acenaphthene	7440-66-6	ug/L	3/30/2020					<10.4				
Acenaphthylene	7440-66-6	ug/L	4/14/2009				<10	<10				
Acenaphthylene	7440-66-6	ug/L	5/10/2010				<10	<10				
Acenaphthylene	7440-66-6	ug/L	12/7/2010						<10			
Acenaphthylene	7440-66-6	ug/L	10/5/2015					<10.2				
Acenaphthylene	7440-66-6	ug/L	3/30/2020					<10.4				
Acetone	7440-66-6	ug/L	2/27/2008				<10	<10				
Acetone	7440-66-6	ug/L	5/12/2008				<10	<10				
Acetone	7440-66-6	ug/L	7/13/2008				<10	<10				
Acetone	7440-66-6	ug/L	9/14/2008				<10	<10				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Acetone	7440-66-6	ug/L	11/17/2008				<10	<10				
Acetone	7440-66-6	ug/L	4/14/2009				<10	<10				
Acetone	7440-66-6	ug/L	10/25/2009				<10	<10				
Acetone	7440-66-6	ug/L	5/10/2010				<10	<10				
Acetone	7440-66-6	ug/L	11/1/2010				<10	<10				
Acetone	7440-66-6	ug/L	12/7/2010						<10			
Acetone	7440-66-6	ug/L	10/13/2011				<10	<10	<10			
Acetone	7440-66-6	ug/L	4/11/2012				<10	<10	<10			
Acetone	7440-66-6	ug/L	10/11/2012				<10	<10	<10			
Acetone	7440-66-6	ug/L	3/30/2013				<10	<10	<10			
Acetone	7440-66-6	ug/L	10/7/2013				<10	<10				
Acetone	7440-66-6	ug/L	6/2/2014				<10	<10	<10			
Acetone	7440-66-6	ug/L	10/15/2014				<10	<10	<10			
Acetone	7440-66-6	ug/L	4/6/2015					<10				
Acetone	7440-66-6	ug/L	10/5/2015					<10				
Acetone	7440-66-6	ug/L	4/4/2016					<10				
Acetone	7440-66-6	ug/L	10/17/2016					<10				
Acetone	7440-66-6	ug/L	4/17/2017					<10				
Acetone	7440-66-6	ug/L	10/11/2017					4.84J				
Acetone	7440-66-6	ug/L	4/20/2018					<10				
Acetone	7440-66-6	ug/L	10/16/2018					3.14J				
Acetone	7440-66-6	ug/L	4/16/2019					<10				
Acetone	7440-66-6	ug/L	10/1/2019					<10				
Acetone	7440-66-6	ug/L	3/30/2020					<100				
Acetone	7440-66-6	ug/L	10/7/2020					<10				
Acetone	7440-66-6	ug/L	4/13/2021					18.2				
Acetonitrile	7440-66-6	mg/L	4/14/2009				<10	<10				
Acetonitrile	7440-66-6	mg/L	5/10/2010				<10	<10				
Acetonitrile	7440-66-6	mg/L	12/7/2010						<10			
Acetonitrile	7440-66-6	mg/L	10/5/2015					<10				
Acetonitrile	7440-66-6	mg/L	3/30/2020					<10				
Acetophenone	7440-66-6	ug/L	4/14/2009				<10	<10				
Acetophenone	7440-66-6	ug/L	5/10/2010				<10	<10				
Acetophenone	7440-66-6	ug/L	12/7/2010						<10			
Acetophenone	7440-66-6	ug/L	10/5/2015					<10.2				
Acetophenone	7440-66-6	ug/L	3/30/2020					<10.4				
Acrolein	7440-66-6	ug/L	4/14/2009				<10	<10				
Acrolein	7440-66-6	ug/L	5/10/2010				<10	<10				
Acrolein	7440-66-6	ug/L	12/7/2010						<10			
Acrolein	7440-66-6	ug/L	10/5/2015					<10				
Acrolein	7440-66-6	ug/L	3/30/2020					<100				
Acrylonitrile	7440-66-6	ug/L	2/27/2008				<10	<10				
Acrylonitrile	7440-66-6	ug/L	5/12/2008				<10	<10				
Acrylonitrile	7440-66-6	ug/L	7/13/2008				<10	<10				
Acrylonitrile	7440-66-6	ug/L	9/14/2008				<10	<10				
Acrylonitrile	7440-66-6	ug/L	11/17/2008				<10	<10				
Acrylonitrile	7440-66-6	ug/L	4/14/2009				<10	<10				
Acrylonitrile	7440-66-6	ug/L	10/25/2009				<10	<10				
Acrylonitrile	7440-66-6	ug/L	5/10/2010				<10	<10				
Acrylonitrile	7440-66-6	ug/L	11/1/2010				<10	<10				
Acrylonitrile	7440-66-6	ug/L	12/7/2010						<10			
Acrylonitrile	7440-66-6	ug/L	10/13/2011				<10	<10	<10			
Acrylonitrile	7440-66-6	ug/L	4/11/2012				<10	<10	<10			
Acrylonitrile	7440-66-6	ug/L	10/11/2012				<10	<10	<10			
Acrylonitrile	7440-66-6	ug/L	3/30/2013				<10	<10	<10			
Acrylonitrile	7440-66-6	ug/L	10/7/2013				<10	<10				
Acrylonitrile	7440-66-6	ug/L	6/2/2014				<10	<10	<10			

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Acrylonitrile	7440-66-6	ug/L	10/15/2014				<10	<10	<10			
Acrylonitrile	7440-66-6	ug/L	4/6/2015					<10				
Acrylonitrile	7440-66-6	ug/L	10/5/2015					<10				
Acrylonitrile	7440-66-6	ug/L	4/4/2016					<10				
Acrylonitrile	7440-66-6	ug/L	10/17/2016					<10				
Acrylonitrile	7440-66-6	ug/L	4/17/2017					<5				
Acrylonitrile	7440-66-6	ug/L	10/11/2017					<5				
Acrylonitrile	7440-66-6	ug/L	4/20/2018					<5				
Acrylonitrile	7440-66-6	ug/L	10/16/2018					<5				
Acrylonitrile	7440-66-6	ug/L	4/16/2019					<5				
Acrylonitrile	7440-66-6	ug/L	10/1/2019					<5				
Acrylonitrile	7440-66-6	ug/L	3/30/2020					<50				
Acrylonitrile	7440-66-6	ug/L	10/7/2020					<5				
Acrylonitrile	7440-66-6	ug/L	4/13/2021					<5				
Aldrin	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Aldrin	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Aldrin	7440-66-6	ug/L	12/7/2010						<0.032			
Aldrin	7440-66-6	ug/L	10/5/2015					<0.0333				
Aldrin	7440-66-6	ug/L	3/30/2020					<0.033				
Alkalinity, Phenol [CaCO3]	7440-66-6	mg/L	6/2/2014				<5	<5	<5			
Alkalinity, Phenol [CaCO3]	7440-66-6	mg/L	10/15/2014				<5	<5	<5			
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	6/2/2014				676	784	268			
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	10/15/2014				681	790	284			
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	4/16/2019									772
Allyl Chloride	7440-66-6	ug/L	4/14/2009				<2	<2				
Allyl Chloride	7440-66-6	ug/L	5/10/2010				<2	<2				
Allyl Chloride	7440-66-6	ug/L	12/7/2010						<5			
Allyl Chloride	7440-66-6	ug/L	10/5/2015					<2				
Allyl Chloride	7440-66-6	ug/L	3/30/2020					<20				
Alpha-BHC	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Alpha-BHC	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Alpha-BHC	7440-66-6	ug/L	12/7/2010						<0.032			
Alpha-BHC	7440-66-6	ug/L	10/5/2015					<0.0333				
Alpha-BHC	7440-66-6	ug/L	3/30/2020					<0.033				
Ammonia as N	7440-66-6	mg/L	4/6/2015				<0.2	<0.2	<0.2			
Ammonia as N	7440-66-6	mg/L	10/5/2015				<0.2	<0.2	<0.2			
Ammonia as N	7440-66-6	mg/L	4/4/2016				<0.2	<0.2	<0.2			
Ammonia as N	7440-66-6	mg/L	10/17/2016				<0.2	<0.2	<0.2			
Anthracene	7440-66-6	ug/L	4/14/2009				<10	<10				
Anthracene	7440-66-6	ug/L	5/10/2010				<10	<10				
Anthracene	7440-66-6	ug/L	12/7/2010						<10			
Anthracene	7440-66-6	ug/L	10/5/2015					<10.2				
Anthracene	7440-66-6	ug/L	3/30/2020					<10.4				
Antimony	7440-66-6	mg/L	2/27/2008				<0.006	<0.006				
Antimony	7440-66-6	mg/L	5/12/2008				<0.006	<0.006				
Antimony	7440-66-6	mg/L	7/13/2008				<0.006	<0.006				
Antimony	7440-66-6	mg/L	9/14/2008				<0.006	<0.006				
Antimony	7440-66-6	mg/L	11/17/2008				<0.006	<0.006				
Antimony	7440-66-6	mg/L	4/14/2009				<0.006	<0.006				
Antimony	7440-66-6	mg/L	10/25/2009				<0.006	<0.006				
Antimony	7440-66-6	mg/L	5/10/2010				<0.002	<0.002				
Antimony	7440-66-6	mg/L	11/1/2010				<0.006	<0.006				
Antimony	7440-66-6	mg/L	12/7/2010						<0.006			
Antimony	7440-66-6	mg/L	4/4/2011				<0.006					
Antimony	7440-66-6	mg/L	10/13/2011				<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	4/11/2012				<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	10/11/2012				<0.012	<0.012	<0.006			

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				D	D	D	D	D	D	D	D	D
Antimony	7440-66-6	mg/L	3/30/2013				<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	10/7/2013				<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	6/2/2014				<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	10/15/2014				<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	4/6/2015					<0.001				
Antimony	7440-66-6	mg/L	10/5/2015					<0.001				
Antimony	7440-66-6	mg/L	4/4/2016					<0.001				
Antimony	7440-66-6	mg/L	10/17/2016					<0.001				
Antimony	7440-66-6	mg/L	4/17/2017					<0.001				
Antimony	7440-66-6	mg/L	10/11/2017					0.000307J				
Antimony	7440-66-6	mg/L	4/20/2018					<0.001				
Antimony	7440-66-6	mg/L	10/16/2018					<0.003				
Antimony	7440-66-6	mg/L	4/16/2019					<0.001				
Antimony	7440-66-6	mg/L	10/1/2019					<0.001				
Antimony	7440-66-6	mg/L	3/30/2020					<0.001				
Antimony	7440-66-6	mg/L	10/7/2020					<0.001				
Antimony	7440-66-6	mg/L	4/13/2021					<0.002				
Arsenic	7440-66-6	mg/L	2/27/2008				0.03	0.002				
Arsenic	7440-66-6	mg/L	5/12/2008				0.033	<0.001				
Arsenic	7440-66-6	mg/L	7/13/2008				0.027	0.002				
Arsenic	7440-66-6	mg/L	9/14/2008				0.015	<0.001				
Arsenic	7440-66-6	mg/L	11/17/2008				0.0166	<0.001				
Arsenic	7440-66-6	mg/L	4/14/2009				0.021	<0.001				
Arsenic	7440-66-6	mg/L	7/7/2009				0.016					
Arsenic	7440-66-6	mg/L	9/2/2009				0.02; 0.021					
Arsenic	7440-66-6	mg/L	10/25/2009					0.018	<0.001			
Arsenic	7440-66-6	mg/L	1/2/2010				0.019					
Arsenic	7440-66-6	mg/L	5/10/2010				0.018	<0.001				
Arsenic	7440-66-6	mg/L	12/7/2010						<0.001			
Arsenic	7440-66-6	mg/L	4/4/2011						<0.001			
Arsenic	7440-66-6	mg/L	10/13/2011				0.0251	<0.001	<0.001			
Arsenic	7440-66-6	mg/L	4/11/2012				0.0142	<0.001	<0.001			
Arsenic	7440-66-6	mg/L	10/11/2012				0.0193	<0.001	<0.001			
Arsenic	7440-66-6	mg/L	3/30/2013				0.0114	<0.001	<0.001			
Arsenic	7440-66-6	mg/L	10/7/2013				0.014	<0.001	<0.001			
Arsenic	7440-66-6	mg/L	6/2/2014			0.00395	0.0177	0.000844J	<0.001			
Arsenic	7440-66-6	mg/L	10/15/2014			0.00299	0.018	<0.001	<0.001			
Arsenic	7440-66-6	mg/L	4/6/2015				0.0132	<0.002	<0.002			
Arsenic	7440-66-6	mg/L	10/5/2015				0.0163	0.00181J	<0.002			
Arsenic	7440-66-6	mg/L	4/4/2016				0.0127	0.00479	<0.002			
Arsenic	7440-66-6	mg/L	10/17/2016				0.0168	0.00125J	<0.002		0.00144J	
Arsenic	7440-66-6	mg/L	4/17/2017				0.0111	0.00447	<0.002		0.00132J	
Arsenic	7440-66-6	mg/L	10/11/2017		0.00206	<0.002	0.0159	0.00236	<0.002		0.00122J	
Arsenic	7440-66-6	mg/L	4/20/2018					0.00268				
Arsenic	7440-66-6	mg/L	4/23/2018				0.0634					
Arsenic	7440-66-6	mg/L	4/24/2018			<0.002			<0.002			
Arsenic	7440-66-6	mg/L	4/30/2018	<0.002	0.00312						0.00567	
Arsenic	7440-66-6	mg/L	10/16/2018	0.000596J	0.00237	0.000682J	0.0159	0.00429	<0.002		0.00756	0.0341
Arsenic	7440-66-6	mg/L	4/16/2019	<0.002	0.00551	<0.002	0.00665	0.00155J	<0.002		0.00439	0.0379
Arsenic	7440-66-6	mg/L	10/1/2019	<0.002	0.00197J	0.00103J	0.0121	0.00495	<0.002		0.00291	0.0382
Arsenic	7440-66-6	mg/L	3/30/2020	<0.002	0.00187J	<0.002	0.00721	0.00258	<0.002		0.00281	0.0287
Arsenic	7440-66-6	mg/L	10/7/2020	<0.002	0.00216	0.000969J	0.015	0.004	<0.002		0.00254	0.0244
Arsenic	7440-66-6	mg/L	4/13/2021	<0.004	0.0023J	<0.004	0.0073	0.005	<0.004		<0.004	0.0244
Arsenic	7440-66-6	mg/L	10/20/2021		0.0029J	<0.004	0.0141	0.0102	<0.004		<0.004	0.0426
Arsenic	7440-66-6	mg/L	5/2/2022		0.0045	0.0011J	0.0092	0.0066	0.001J		0.0013J	0.0324
Arsenic	7440-66-6	mg/L	10/14/2022		0.002J	0.0015J	0.0135	0.0042	0.0011J		0.0016J	0.0303
Arsenic	7440-66-6	mg/L	5/1/2023		0.00237	0.0014J	0.0073	0.00376	<0.002		<0.002	0.0372

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Arsenic	7440-66-6	mg/L	10/16/2023		0.00219	0.00146J	0.013	0.00163J	<0.002		0.000849J	0.0304
Arsenic	7440-66-6	mg/L	4/29/2024		0.00243	0.000853J	0.00648	0.000677J	<0.002		<0.002	0.034
Arsenic	7440-66-6	mg/L	10/10/2024						<0.00200			0.0321
Arsenic	7440-66-6	mg/L	10/9/2024			0.00251	0.0147	0.00305				
Arsenic	7440-66-6	mg/L	10/15/2024		0.00197J							
Arsenic	7440-66-6	mg/L	10/14/2024								0.000826J	
Barium	7440-66-6	mg/L	2/27/2008				1.35	0.932				
Barium	7440-66-6	mg/L	5/12/2008				1.01	1.06				
Barium	7440-66-6	mg/L	7/13/2008				1.24	0.807				
Barium	7440-66-6	mg/L	9/14/2008				0.791	0.835				
Barium	7440-66-6	mg/L	11/17/2008				0.81	0.836				
Barium	7440-66-6	mg/L	4/14/2009				0.863	1.06				
Barium	7440-66-6	mg/L	7/7/2009				0.481	0.892				
Barium	7440-66-6	mg/L	9/2/2009				0.87	1.07				
Barium	7440-66-6	mg/L	10/25/2009				0.956	0.997				
Barium	7440-66-6	mg/L	1/2/2010				0.965	0.951				
Barium	7440-66-6	mg/L	5/10/2010				0.902	0.96				
Barium	7440-66-6	mg/L	11/1/2010				0.911	1.14				
Barium	7440-66-6	mg/L	12/7/2010						0.149			
Barium	7440-66-6	mg/L	1/10/2011						0.175			
Barium	7440-66-6	mg/L	4/4/2011						0.0831			
Barium	7440-66-6	mg/L	7/8/2011						0.0873			
Barium	7440-66-6	mg/L	8/11/2011						0.105			
Barium	7440-66-6	mg/L	10/13/2011				0.913	0.889	0.0963			
Barium	7440-66-6	mg/L	4/11/2012				0.8	1.07	0.0946			
Barium	7440-66-6	mg/L	10/11/2012				0.799	1.15	0.0977			
Barium	7440-66-6	mg/L	3/30/2013				0.717	1.25	0.0919			
Barium	7440-66-6	mg/L	10/7/2013				0.827	1.05	0.0846			
Barium	7440-66-6	mg/L	6/2/2014				0.721	0.964	0.0618			
Barium	7440-66-6	mg/L	10/15/2014				0.825	0.925	0.148			
Barium	7440-66-6	mg/L	4/6/2015					1.08				
Barium	7440-66-6	mg/L	10/5/2015					1.13				
Barium	7440-66-6	mg/L	4/4/2016					0.998				
Barium	7440-66-6	mg/L	10/17/2016					1.13				
Barium	7440-66-6	mg/L	4/17/2017					1.13				
Barium	7440-66-6	mg/L	10/11/2017					0.887				
Barium	7440-66-6	mg/L	4/20/2018					1.24				
Barium	7440-66-6	mg/L	10/16/2018					1.31				
Barium	7440-66-6	mg/L	4/16/2019					1.16				
Barium	7440-66-6	mg/L	10/1/2019					1.03				
Barium	7440-66-6	mg/L	3/30/2020					1.26				
Barium	7440-66-6	mg/L	10/7/2020					1.17				
Barium	7440-66-6	mg/L	4/13/2021					1.09				
Benzene	7440-66-6	ug/L	2/27/2008				0.5	<0.5				
Benzene	7440-66-6	ug/L	5/12/2008				0.59	<0.5				
Benzene	7440-66-6	ug/L	7/13/2008				0.55	<0.5				
Benzene	7440-66-6	ug/L	9/14/2008				0.63	<0.5				
Benzene	7440-66-6	ug/L	11/17/2008				0.53	<0.5				
Benzene	7440-66-6	ug/L	4/14/2009				0.57	<0.5				
Benzene	7440-66-6	ug/L	7/7/2009				0.75					
Benzene	7440-66-6	ug/L	9/2/2009				0.72					
Benzene	7440-66-6	ug/L	10/25/2009				0.63	<0.5				
Benzene	7440-66-6	ug/L	1/2/2010				<0.5					
Benzene	7440-66-6	ug/L	5/10/2010				<0.5	<0.5				
Benzene	7440-66-6	ug/L	11/1/2010				<0.5	<0.5				
Benzene	7440-66-6	ug/L	12/7/2010						<0.5			
Benzene	7440-66-6	ug/L	4/4/2011				<0.5					

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Benzene	7440-66-6	ug/L	10/13/2011				<0.5	<0.5	<0.5			
Benzene	7440-66-6	ug/L	4/11/2012				<0.5	<0.5	<0.5			
Benzene	7440-66-6	ug/L	10/11/2012				<0.5	<0.5	<0.5			
Benzene	7440-66-6	ug/L	3/30/2013				<0.5	<0.5	<0.5			
Benzene	7440-66-6	ug/L	10/7/2013				<0.5	<0.5				
Benzene	7440-66-6	ug/L	6/2/2014				<0.5	0.169J	<0.5			
Benzene	7440-66-6	ug/L	10/15/2014				<0.5	<0.5	<0.5			
Benzene	7440-66-6	ug/L	4/6/2015					0.277J	<0.5			
Benzene	7440-66-6	ug/L	10/5/2015					0.272J	<0.5			
Benzene	7440-66-6	ug/L	4/4/2016					0.378J	<0.5			
Benzene	7440-66-6	ug/L	10/17/2016					0.589	<0.5		<0.5	
Benzene	7440-66-6	ug/L	4/17/2017					<0.5	<0.5		<0.5	
Benzene	7440-66-6	ug/L	10/11/2017					0.471J	<0.5		<0.5	
Benzene	7440-66-6	ug/L	4/20/2018					0.456J				
Benzene	7440-66-6	ug/L	4/24/2018						<0.5			
Benzene	7440-66-6	ug/L	4/30/2018								<0.5	
Benzene	7440-66-6	ug/L	10/16/2018					0.548	<0.5		<0.5	
Benzene	7440-66-6	ug/L	4/16/2019					0.843	<0.5		<0.5	
Benzene	7440-66-6	ug/L	10/1/2019					1.74	<0.5		<0.5	
Benzene	7440-66-6	ug/L	3/30/2020					<5	<0.5		<0.5	
Benzene	7440-66-6	ug/L	10/7/2020					2.5	<0.5		<0.5	
Benzene	7440-66-6	ug/L	4/13/2021					2.5	<1		<1	
Benzene	7440-66-6	ug/L	10/20/2021					4.2	<1		<1	
Benzene	7440-66-6	ug/L	5/2/2022					4.6	<1		<1	
Benzene	7440-66-6	ug/L	10/14/2022					4.7	<1		<1	
Benzene	7440-66-6	ug/L	5/1/2023					4.93	<0.5		0.45J	
Benzene	7440-66-6	ug/L	10/16/2023					3.73	<0.5		<0.5	
Benzene	7440-66-6	ug/L	4/29/2024					1.97	<0.5		<0.5	
Benzene	7440-66-6	ug/L	10/10/2024						<0.500			
Benzene	7440-66-6	ug/L	10/9/2024					1.74				
Benzene	7440-66-6	ug/L	10/14/2024								<0.500	
Benzo [k] fluoranthene	7440-66-6	ug/L	4/14/2009				<10	<10				
Benzo [k] fluoranthene	7440-66-6	ug/L	5/10/2010				<10	<10				
Benzo [k] fluoranthene	7440-66-6	ug/L	12/7/2010						<10			
Benzo [k] fluoranthene	7440-66-6	ug/L	10/5/2015					<10.2				
Benzo [k] fluoranthene	7440-66-6	ug/L	3/30/2020					<10.4				
Benzo[a]anthracene	7440-66-6	ug/L	4/14/2009				<10	<10				
Benzo[a]anthracene	7440-66-6	ug/L	5/10/2010				<10	<10				
Benzo[a]anthracene	7440-66-6	ug/L	12/7/2010						<10			
Benzo[a]anthracene	7440-66-6	ug/L	10/5/2015					<10.2				
Benzo[a]anthracene	7440-66-6	ug/L	3/30/2020					<10.4				
Benzo[a]pyrene	7440-66-6	ug/L	4/14/2009				<10	<10				
Benzo[a]pyrene	7440-66-6	ug/L	5/10/2010				<10	<10				
Benzo[a]pyrene	7440-66-6	ug/L	12/7/2010						<10			
Benzo[a]pyrene	7440-66-6	ug/L	10/5/2015					<10.2				
Benzo[a]pyrene	7440-66-6	ug/L	3/30/2020					<10.4				
Benzo[b]fluoranthene	7440-66-6	ug/L	4/14/2009				<10	<10				
Benzo[b]fluoranthene	7440-66-6	ug/L	5/10/2010				<10	<10				
Benzo[b]fluoranthene	7440-66-6	ug/L	12/7/2010						<10			
Benzo[b]fluoranthene	7440-66-6	ug/L	10/5/2015					<10.2				
Benzo[b]fluoranthene	7440-66-6	ug/L	3/30/2020					<10.4				
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/14/2009				<10	<10				
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/10/2010				<10	<10				
Benzo[g,h,i]perylene	7440-66-6	ug/L	12/7/2010						<10			
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/5/2015					<10.2				
Benzo[g,h,i]perylene	7440-66-6	ug/L	3/30/2020					<10.4				
Benzyl alcohol	7440-66-6	ug/L	4/14/2009				<10	<10				

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				D	D	D	D	D	D	D	D	D
Benzyl alcohol	7440-66-6	ug/L	5/10/2010				<10	<10				
Benzyl alcohol	7440-66-6	ug/L	12/7/2010						<10			
Benzyl alcohol	7440-66-6	ug/L	10/5/2015					<10.2				
Benzyl alcohol	7440-66-6	ug/L	3/30/2020					<10.4				
Beryllium	7440-66-6	mg/L	2/27/2008				0.00109	<0.001				
Beryllium	7440-66-6	mg/L	5/12/2008				<0.001	<0.001				
Beryllium	7440-66-6	mg/L	7/13/2008				0.00189	<0.001				
Beryllium	7440-66-6	mg/L	9/14/2008				<0.001	<0.001				
Beryllium	7440-66-6	mg/L	11/17/2008				0.0022	<0.001				
Beryllium	7440-66-6	mg/L	4/14/2009				<0.001	<0.001				
Beryllium	7440-66-6	mg/L	10/25/2009				<0.001	<0.001				
Beryllium	7440-66-6	mg/L	5/10/2010				<0.0004	<0.0004				
Beryllium	7440-66-6	mg/L	11/1/2010				<0.001	<0.001				
Beryllium	7440-66-6	mg/L	12/7/2010						<0.001			
Beryllium	7440-66-6	mg/L	10/13/2011				<0.001	<0.001	<0.001			
Beryllium	7440-66-6	mg/L	4/11/2012				<0.001	<0.001	<0.001			
Beryllium	7440-66-6	mg/L	10/11/2012				<0.001	<0.001	<0.001			
Beryllium	7440-66-6	mg/L	3/30/2013				<0.001	<0.001	<0.001			
Beryllium	7440-66-6	mg/L	10/7/2013				<0.001	<0.001	<0.001			
Beryllium	7440-66-6	mg/L	6/2/2014				<0.001	<0.001	<0.001			
Beryllium	7440-66-6	mg/L	10/15/2014				<0.001	<0.001	<0.001			
Beryllium	7440-66-6	mg/L	4/6/2015					<0.001				
Beryllium	7440-66-6	mg/L	10/5/2015					<0.001				
Beryllium	7440-66-6	mg/L	4/4/2016					<0.001				
Beryllium	7440-66-6	mg/L	10/17/2016					<0.001				
Beryllium	7440-66-6	mg/L	4/17/2017					<0.001				
Beryllium	7440-66-6	mg/L	10/11/2017					<0.001				
Beryllium	7440-66-6	mg/L	4/20/2018					<0.001				
Beryllium	7440-66-6	mg/L	10/16/2018					<0.001				
Beryllium	7440-66-6	mg/L	4/16/2019					<0.001				
Beryllium	7440-66-6	mg/L	10/1/2019					<0.001				
Beryllium	7440-66-6	mg/L	3/30/2020					<0.001				
Beryllium	7440-66-6	mg/L	10/7/2020					0.000288J				
Beryllium	7440-66-6	mg/L	4/13/2021					<0.004				
Beta-BHC	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Beta-BHC	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Beta-BHC	7440-66-6	ug/L	12/7/2010						<0.032			
Beta-BHC	7440-66-6	ug/L	10/5/2015					<0.0333				
Beta-BHC	7440-66-6	ug/L	3/30/2020					<0.033				
Bicarbonate	7440-66-6	mg/L	6/2/2014				676	784	268			
Bicarbonate	7440-66-6	mg/L	10/15/2014				681	790	284			
Bicarbonate	7440-66-6	mg/L	4/16/2019									772
Bicarbonate	7440-66-6	mg/L	10/1/2019									736
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	4/14/2009				<10	<10				
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	5/10/2010				<10	<10				
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	12/7/2010						<10			
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	10/5/2015					<10.2				
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	3/30/2020					<10.4				
Bis[2-chloroethyl]ether	7440-66-6	ug/L	4/14/2009				<10	<10				
Bis[2-chloroethyl]ether	7440-66-6	ug/L	5/10/2010				<10	<10				
Bis[2-chloroethyl]ether	7440-66-6	ug/L	12/7/2010						<10			
Bis[2-chloroethyl]ether	7440-66-6	ug/L	10/5/2015					<10.2				
Bis[2-chloroethyl]ether	7440-66-6	ug/L	3/30/2020					<10.4				
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/14/2009				<10	<10				
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/10/2010				<10	<10				
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	12/7/2010						<10			
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/5/2015					<10.2				

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				D	D	D	D	D	D	D	D	D
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	3/30/2020					<10.4				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/14/2009				<10	<10				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	5/10/2010				<10	<10				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	12/7/2010						<10			
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/5/2015					14.6				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/4/2016					0.882J				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/11/2016					0.823J				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/17/2016					0.897J				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	11/14/2016					0.848J				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/17/2017					<10.4				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/11/2017					<10.2				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/20/2018					<10.2				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/16/2018					<10.3				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/16/2019					<10.2				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	3/30/2020					<10.4				
Bromochloromethane	7440-66-6	ug/L	2/27/2008				<5	<5				
Bromochloromethane	7440-66-6	ug/L	5/12/2008				<5	<5				
Bromochloromethane	7440-66-6	ug/L	7/13/2008				<5	<5				
Bromochloromethane	7440-66-6	ug/L	9/14/2008				<5	<5				
Bromochloromethane	7440-66-6	ug/L	11/17/2008				<5	<5				
Bromochloromethane	7440-66-6	ug/L	4/14/2009				<5	<5				
Bromochloromethane	7440-66-6	ug/L	10/25/2009				<5	<5				
Bromochloromethane	7440-66-6	ug/L	5/10/2010				<5	<5				
Bromochloromethane	7440-66-6	ug/L	11/1/2010				<5	<5				
Bromochloromethane	7440-66-6	ug/L	12/7/2010						<5			
Bromochloromethane	7440-66-6	ug/L	10/13/2011				<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	4/11/2012				<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	10/11/2012				<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	3/30/2013				<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	10/7/2013				<5	<5				
Bromochloromethane	7440-66-6	ug/L	6/2/2014				<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	10/15/2014				<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	4/6/2015					<5				
Bromochloromethane	7440-66-6	ug/L	10/5/2015					<5				
Bromochloromethane	7440-66-6	ug/L	4/4/2016					<5				
Bromochloromethane	7440-66-6	ug/L	10/17/2016					<5				
Bromochloromethane	7440-66-6	ug/L	4/17/2017					<5				
Bromochloromethane	7440-66-6	ug/L	10/11/2017					<5				
Bromochloromethane	7440-66-6	ug/L	4/20/2018					<5				
Bromochloromethane	7440-66-6	ug/L	10/16/2018					<5				
Bromochloromethane	7440-66-6	ug/L	4/16/2019					<5				
Bromochloromethane	7440-66-6	ug/L	10/1/2019					<5				
Bromochloromethane	7440-66-6	ug/L	3/30/2020					<50				
Bromochloromethane	7440-66-6	ug/L	10/7/2020					<5				
Bromochloromethane	7440-66-6	ug/L	4/13/2021					<1				
Bromodichloromethane	7440-66-6	ug/L	2/27/2008				<1	<1				
Bromodichloromethane	7440-66-6	ug/L	5/12/2008				<1	<1				
Bromodichloromethane	7440-66-6	ug/L	7/13/2008				<1	<1				
Bromodichloromethane	7440-66-6	ug/L	9/14/2008				<1	<1				
Bromodichloromethane	7440-66-6	ug/L	11/17/2008				<1	<1				
Bromodichloromethane	7440-66-6	ug/L	4/14/2009				<1	<1				
Bromodichloromethane	7440-66-6	ug/L	10/25/2009				<1	<2				
Bromodichloromethane	7440-66-6	ug/L	5/10/2010				<4	<4				
Bromodichloromethane	7440-66-6	ug/L	11/1/2010				<1	<1				
Bromodichloromethane	7440-66-6	ug/L	12/7/2010						<1			
Bromodichloromethane	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
Bromodichloromethane	7440-66-6	ug/L	4/11/2012				<1	<1	<1			

Table 9A
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Bromodichloromethane	7440-66-6	ug/L	10/11/2012				<1	<2	<1			
Bromodichloromethane	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
Bromodichloromethane	7440-66-6	ug/L	10/7/2013				<1	<1				
Bromodichloromethane	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
Bromodichloromethane	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
Bromodichloromethane	7440-66-6	ug/L	4/6/2015					<1				
Bromodichloromethane	7440-66-6	ug/L	10/5/2015					<1				
Bromodichloromethane	7440-66-6	ug/L	4/4/2016					<1				
Bromodichloromethane	7440-66-6	ug/L	10/17/2016					<1				
Bromodichloromethane	7440-66-6	ug/L	4/17/2017					<1				
Bromodichloromethane	7440-66-6	ug/L	10/11/2017					<1				
Bromodichloromethane	7440-66-6	ug/L	4/20/2018					<1				
Bromodichloromethane	7440-66-6	ug/L	10/16/2018					<1				
Bromodichloromethane	7440-66-6	ug/L	4/16/2019					<1				
Bromodichloromethane	7440-66-6	ug/L	10/1/2019					<1				
Bromodichloromethane	7440-66-6	ug/L	3/30/2020					<10				
Bromodichloromethane	7440-66-6	ug/L	10/7/2020					<1				
Bromodichloromethane	7440-66-6	ug/L	4/13/2021					<1				
Bromoform	7440-66-6	ug/L	2/27/2008				<5	<5				
Bromoform	7440-66-6	ug/L	5/12/2008				<5	<5				
Bromoform	7440-66-6	ug/L	7/13/2008				<5	<5				
Bromoform	7440-66-6	ug/L	9/14/2008				<5	<5				
Bromoform	7440-66-6	ug/L	11/17/2008				<5	<5				
Bromoform	7440-66-6	ug/L	4/14/2009				<5	<5				
Bromoform	7440-66-6	ug/L	10/25/2009				<20	<10				
Bromoform	7440-66-6	ug/L	5/10/2010				<20	<20				
Bromoform	7440-66-6	ug/L	11/1/2010				<10	<10				
Bromoform	7440-66-6	ug/L	12/7/2010						<10			
Bromoform	7440-66-6	ug/L	10/13/2011				<5	<5	<5			
Bromoform	7440-66-6	ug/L	4/11/2012				<5	<5	<5			
Bromoform	7440-66-6	ug/L	10/11/2012				<5	<5	<5			
Bromoform	7440-66-6	ug/L	3/30/2013				<5	<5	<5			
Bromoform	7440-66-6	ug/L	10/7/2013				<5	<5				
Bromoform	7440-66-6	ug/L	6/2/2014				<5	<5	<5			
Bromoform	7440-66-6	ug/L	10/15/2014				<5	<5	<5			
Bromoform	7440-66-6	ug/L	4/6/2015					<5				
Bromoform	7440-66-6	ug/L	10/5/2015					<5				
Bromoform	7440-66-6	ug/L	4/4/2016					<5				
Bromoform	7440-66-6	ug/L	10/17/2016					<5				
Bromoform	7440-66-6	ug/L	4/17/2017					<5				
Bromoform	7440-66-6	ug/L	10/11/2017					<5				
Bromoform	7440-66-6	ug/L	4/20/2018					<5				
Bromoform	7440-66-6	ug/L	10/16/2018					<5				
Bromoform	7440-66-6	ug/L	4/16/2019					<5				
Bromoform	7440-66-6	ug/L	10/1/2019					<5				
Bromoform	7440-66-6	ug/L	3/30/2020					<50				
Bromoform	7440-66-6	ug/L	10/7/2020					<5				
Bromoform	7440-66-6	ug/L	4/13/2021					<1				
Bromomethane	7440-66-6	ug/L	2/27/2008				<4	<4				
Bromomethane	7440-66-6	ug/L	5/12/2008				<4	<4				
Bromomethane	7440-66-6	ug/L	7/13/2008				<4	<4				
Bromomethane	7440-66-6	ug/L	9/14/2008				<4	<4				
Bromomethane	7440-66-6	ug/L	11/17/2008				<4	<4				
Bromomethane	7440-66-6	ug/L	4/14/2009				<4	<4				
Bromomethane	7440-66-6	ug/L	10/25/2009				<4	<4				
Bromomethane	7440-66-6	ug/L	5/10/2010				<4	<4				
Bromomethane	7440-66-6	ug/L	11/1/2010				<4	<4				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Bromomethane	7440-66-6	ug/L	12/7/2010						<4			
Bromomethane	7440-66-6	ug/L	10/13/2011				<4	<4	<4			
Bromomethane	7440-66-6	ug/L	4/11/2012				<4	<4	<4			
Bromomethane	7440-66-6	ug/L	10/11/2012				<4	<5	<4			
Bromomethane	7440-66-6	ug/L	3/30/2013				<4	<4	<4			
Bromomethane	7440-66-6	ug/L	10/7/2013				<4	<4				
Bromomethane	7440-66-6	ug/L	6/2/2014				<4	<4	<4			
Bromomethane	7440-66-6	ug/L	10/15/2014				<4	<4	<4			
Bromomethane	7440-66-6	ug/L	4/6/2015					<4				
Bromomethane	7440-66-6	ug/L	10/5/2015					<4				
Bromomethane	7440-66-6	ug/L	4/4/2016					<4				
Bromomethane	7440-66-6	ug/L	10/17/2016					<4				
Bromomethane	7440-66-6	ug/L	4/17/2017					0.251J				
Bromomethane	7440-66-6	ug/L	10/11/2017					<4				
Bromomethane	7440-66-6	ug/L	4/20/2018					<4				
Bromomethane	7440-66-6	ug/L	10/16/2018					<4				
Bromomethane	7440-66-6	ug/L	4/16/2019					<40				
Bromomethane	7440-66-6	ug/L	10/1/2019					<4				
Bromomethane	7440-66-6	ug/L	3/30/2020					<40				
Bromomethane	7440-66-6	ug/L	10/7/2020					<4				
Bromomethane	7440-66-6	ug/L	4/13/2021					<1				
Butyl benzyl phthalate	7440-66-6	ug/L	4/14/2009				<10	<10				
Butyl benzyl phthalate	7440-66-6	ug/L	5/10/2010				<10	<10				
Butyl benzyl phthalate	7440-66-6	ug/L	12/7/2010						<10			
Butyl benzyl phthalate	7440-66-6	ug/L	10/5/2015					<10.2				
Butyl benzyl phthalate	7440-66-6	ug/L	3/30/2020					<10.4				
Cadmium	7440-66-6	mg/L	2/27/2008				<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	5/12/2008				<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	7/13/2008				<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	9/14/2008				<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	11/17/2008				0.00276	<0.0005				
Cadmium	7440-66-6	mg/L	4/14/2009				<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	10/25/2009				<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	5/10/2010				0.00047	<0.0004				
Cadmium	7440-66-6	mg/L	12/7/2010						<0.0005			
Cadmium	7440-66-6	mg/L	4/4/2011						<0.0025			
Cadmium	7440-66-6	mg/L	10/13/2011				0.000644	<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	4/11/2012				<0.0005	<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	10/11/2012				<0.0005	<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	3/30/2013				<0.0005	<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	10/7/2013				<0.0005	<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	6/2/2014				<0.0005	<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	10/15/2014				<0.0005	<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	4/6/2015					<0.0005				
Cadmium	7440-66-6	mg/L	10/5/2015					<0.0005				
Cadmium	7440-66-6	mg/L	4/4/2016					<0.0005				
Cadmium	7440-66-6	mg/L	10/17/2016					<0.0005				
Cadmium	7440-66-6	mg/L	4/17/2017					<0.0005				
Cadmium	7440-66-6	mg/L	10/11/2017					<0.0005				
Cadmium	7440-66-6	mg/L	4/20/2018					<0.0005				
Cadmium	7440-66-6	mg/L	10/16/2018					<0.0005				
Cadmium	7440-66-6	mg/L	4/16/2019					<0.0005				
Cadmium	7440-66-6	mg/L	10/1/2019					<0.0001				
Cadmium	7440-66-6	mg/L	3/30/2020					<0.0001				
Cadmium	7440-66-6	mg/L	10/7/2020					0.000253				
Cadmium	7440-66-6	mg/L	4/13/2021					<0.0008				
Calcium	7440-66-6	mg/L	6/2/2014				217	176	67.8			

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Calcium	7440-66-6	mg/L	10/15/2014				218	157	77.8			
Calcium	7440-66-6	mg/L	4/16/2019									238
Calcium	7440-66-6	mg/L	10/1/2019									230
Carbon Disulfide	7440-66-6	ug/L	2/27/2008				<1	<1				
Carbon Disulfide	7440-66-6	ug/L	5/12/2008				<1	<1				
Carbon Disulfide	7440-66-6	ug/L	7/13/2008				<1	<1				
Carbon Disulfide	7440-66-6	ug/L	9/14/2008				<1	<1				
Carbon Disulfide	7440-66-6	ug/L	11/17/2008				<1	<1				
Carbon Disulfide	7440-66-6	ug/L	4/14/2009				<1	<1				
Carbon Disulfide	7440-66-6	ug/L	10/25/2009				<1	<5				
Carbon Disulfide	7440-66-6	ug/L	5/10/2010				<4	<4				
Carbon Disulfide	7440-66-6	ug/L	11/1/2010				<1	<1				
Carbon Disulfide	7440-66-6	ug/L	12/7/2010						<1			
Carbon Disulfide	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
Carbon Disulfide	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
Carbon Disulfide	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
Carbon Disulfide	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
Carbon Disulfide	7440-66-6	ug/L	10/7/2013				<1	<1				
Carbon Disulfide	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
Carbon Disulfide	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
Carbon Disulfide	7440-66-6	ug/L	4/6/2015					<1				
Carbon Disulfide	7440-66-6	ug/L	10/5/2015					<1				
Carbon Disulfide	7440-66-6	ug/L	4/4/2016					<1				
Carbon Disulfide	7440-66-6	ug/L	10/17/2016					<1				
Carbon Disulfide	7440-66-6	ug/L	4/17/2017					<1				
Carbon Disulfide	7440-66-6	ug/L	10/11/2017					<1				
Carbon Disulfide	7440-66-6	ug/L	4/20/2018					<1				
Carbon Disulfide	7440-66-6	ug/L	10/16/2018					<1				
Carbon Disulfide	7440-66-6	ug/L	4/16/2019					<1				
Carbon Disulfide	7440-66-6	ug/L	10/1/2019					<1				
Carbon Disulfide	7440-66-6	ug/L	3/30/2020					<10				
Carbon Disulfide	7440-66-6	ug/L	10/7/2020					<1				
Carbon Disulfide	7440-66-6	ug/L	4/13/2021					<1				
Carbon Tetrachloride	7440-66-6	ug/L	2/27/2008				<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	5/12/2008				<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	7/13/2008				<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	9/14/2008				<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	11/17/2008				<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/14/2009				<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	10/25/2009				<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	5/10/2010				<4	<4				
Carbon Tetrachloride	7440-66-6	ug/L	11/1/2010				<5	<5				
Carbon Tetrachloride	7440-66-6	ug/L	12/7/2010						<2			
Carbon Tetrachloride	7440-66-6	ug/L	10/13/2011				<2	<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	4/11/2012				<2	<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	10/11/2012				<2	<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2013				<2	<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	10/7/2013				<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	6/2/2014				<2	<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	10/15/2014				<2	<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	4/6/2015					<2				
Carbon Tetrachloride	7440-66-6	ug/L	10/5/2015					<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/4/2016					<2				
Carbon Tetrachloride	7440-66-6	ug/L	10/17/2016					<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/17/2017					<2				
Carbon Tetrachloride	7440-66-6	ug/L	10/11/2017					<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/20/2018					<2				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Carbon Tetrachloride	7440-66-6	ug/L	10/16/2018					<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/16/2019					<2				
Carbon Tetrachloride	7440-66-6	ug/L	10/1/2019					<2				
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2020					<20				
Carbon Tetrachloride	7440-66-6	ug/L	10/7/2020					<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/13/2021					<1				
Carbonate	7440-66-6	mg/L	6/2/2014				<5	<5	<5			
Carbonate	7440-66-6	mg/L	10/15/2014				<5	<5	<5			
Carbonate	7440-66-6	mg/L	4/16/2019									<5
Carbonate	7440-66-6	mg/L	10/1/2019									<5
Chlordane	7440-66-6	ug/L	4/14/2009				<2	<2				
Chlordane	7440-66-6	ug/L	5/10/2010				<2	<2				
Chlordane	7440-66-6	ug/L	12/7/2010						<2			
Chlordane	7440-66-6	ug/L	10/5/2015					<2.08				
Chlordane	7440-66-6	ug/L	3/30/2020					<2.06				
Chloride	7440-66-6	mg/L	6/2/2014				170	6.05	7.86			
Chloride	7440-66-6	mg/L	10/15/2014				169	6.46	8.44			
Chloride	7440-66-6	mg/L	4/16/2019									83.7
Chloride	7440-66-6	mg/L	10/1/2019									80.3
Chlorobenzene	7440-66-6	ug/L	2/27/2008				<1	<1				
Chlorobenzene	7440-66-6	ug/L	5/12/2008				<1	<1				
Chlorobenzene	7440-66-6	ug/L	7/13/2008				<1	<1				
Chlorobenzene	7440-66-6	ug/L	9/14/2008				<1	<1				
Chlorobenzene	7440-66-6	ug/L	11/17/2008				<1	<1				
Chlorobenzene	7440-66-6	ug/L	4/14/2009				<1	<1				
Chlorobenzene	7440-66-6	ug/L	10/25/2009				<1	<2				
Chlorobenzene	7440-66-6	ug/L	5/10/2010				<1	<1				
Chlorobenzene	7440-66-6	ug/L	11/1/2010				<1	<1				
Chlorobenzene	7440-66-6	ug/L	12/7/2010						<1			
Chlorobenzene	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
Chlorobenzene	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
Chlorobenzene	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
Chlorobenzene	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
Chlorobenzene	7440-66-6	ug/L	10/7/2013				<1	<1				
Chlorobenzene	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
Chlorobenzene	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
Chlorobenzene	7440-66-6	ug/L	4/6/2015					<1				
Chlorobenzene	7440-66-6	ug/L	10/5/2015					<1				
Chlorobenzene	7440-66-6	ug/L	4/4/2016					<1				
Chlorobenzene	7440-66-6	ug/L	10/17/2016					<1				
Chlorobenzene	7440-66-6	ug/L	4/17/2017					<1				
Chlorobenzene	7440-66-6	ug/L	10/11/2017					<1				
Chlorobenzene	7440-66-6	ug/L	4/20/2018					<1				
Chlorobenzene	7440-66-6	ug/L	10/16/2018					<1				
Chlorobenzene	7440-66-6	ug/L	4/16/2019					<1				
Chlorobenzene	7440-66-6	ug/L	10/1/2019					<1				
Chlorobenzene	7440-66-6	ug/L	3/30/2020					<10				
Chlorobenzene	7440-66-6	ug/L	10/7/2020					<1				
Chlorobenzene	7440-66-6	ug/L	4/13/2021					<1				
Chlorobenzilate	7440-66-6	ug/L	4/14/2009				<10	<10				
Chlorobenzilate	7440-66-6	ug/L	5/10/2010				<10	<10				
Chlorobenzilate	7440-66-6	ug/L	12/7/2010						<10			
Chlorobenzilate	7440-66-6	ug/L	10/5/2015					<10.2				
Chlorobenzilate	7440-66-6	ug/L	3/30/2020					<10.4				
Chlorodibromomethane	7440-66-6	ug/L	2/27/2008				<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	5/12/2008				<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	7/13/2008				<5	<5				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Chlorodibromomethane	7440-66-6	ug/L	9/14/2008				<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	11/17/2008				<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	4/14/2009				<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	10/25/2009				<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	5/10/2010				<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	11/1/2010				<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	12/7/2010						<5			
Chlorodibromomethane	7440-66-6	ug/L	10/13/2011				<5	<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	4/11/2012				<5	<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	10/11/2012				<5	<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	3/30/2013				<5	<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	10/7/2013				<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	6/2/2014				<5	<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	10/15/2014				<5	<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	4/6/2015					<5				
Chlorodibromomethane	7440-66-6	ug/L	10/5/2015					<5				
Chlorodibromomethane	7440-66-6	ug/L	4/4/2016					<5				
Chlorodibromomethane	7440-66-6	ug/L	10/17/2016					<5				
Chlorodibromomethane	7440-66-6	ug/L	4/17/2017					<5				
Chlorodibromomethane	7440-66-6	ug/L	10/11/2017					<5				
Chlorodibromomethane	7440-66-6	ug/L	4/20/2018					<5				
Chlorodibromomethane	7440-66-6	ug/L	10/16/2018					<5				
Chlorodibromomethane	7440-66-6	ug/L	4/16/2019					<5				
Chlorodibromomethane	7440-66-6	ug/L	10/1/2019					<5				
Chlorodibromomethane	7440-66-6	ug/L	3/30/2020					<50				
Chlorodibromomethane	7440-66-6	ug/L	10/7/2020					<5				
Chlorodibromomethane	7440-66-6	ug/L	4/13/2021					<1				
Chloroethane	7440-66-6	ug/L	2/27/2008				<4	<4				
Chloroethane	7440-66-6	ug/L	5/12/2008				<4	<4				
Chloroethane	7440-66-6	ug/L	7/13/2008				<4	<4				
Chloroethane	7440-66-6	ug/L	9/14/2008				<4	<4				
Chloroethane	7440-66-6	ug/L	11/17/2008				<4	<4				
Chloroethane	7440-66-6	ug/L	4/14/2009				<4	<4				
Chloroethane	7440-66-6	ug/L	10/25/2009				<4	<4				
Chloroethane	7440-66-6	ug/L	5/10/2010				<4	<4				
Chloroethane	7440-66-6	ug/L	11/1/2010				<4	<4				
Chloroethane	7440-66-6	ug/L	12/7/2010						<4			
Chloroethane	7440-66-6	ug/L	10/13/2011				<4	<4	<4			
Chloroethane	7440-66-6	ug/L	4/11/2012				<4	<4	<4			
Chloroethane	7440-66-6	ug/L	10/11/2012				<4	<4	<4			
Chloroethane	7440-66-6	ug/L	3/30/2013				<4	<4	<4			
Chloroethane	7440-66-6	ug/L	10/7/2013				<4	<4				
Chloroethane	7440-66-6	ug/L	6/2/2014				<4	2.4J	<4			
Chloroethane	7440-66-6	ug/L	10/15/2014				<4	1.77J	<4			
Chloroethane	7440-66-6	ug/L	4/6/2015					1.99J				
Chloroethane	7440-66-6	ug/L	10/5/2015					1.91J				
Chloroethane	7440-66-6	ug/L	4/4/2016					2.75J				
Chloroethane	7440-66-6	ug/L	10/17/2016					4.05				
Chloroethane	7440-66-6	ug/L	4/17/2017					<4				
Chloroethane	7440-66-6	ug/L	10/11/2017					6				
Chloroethane	7440-66-6	ug/L	4/20/2018					4.51				
Chloroethane	7440-66-6	ug/L	10/16/2018					3.71J				
Chloroethane	7440-66-6	ug/L	4/16/2019					4.63				
Chloroethane	7440-66-6	ug/L	10/1/2019					6.57				
Chloroethane	7440-66-6	ug/L	3/30/2020					<40				
Chloroethane	7440-66-6	ug/L	10/7/2020					10.3				
Chloroethane	7440-66-6	ug/L	4/13/2021					9.4				

Table 9A
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Chloroform	7440-66-6	ug/L	2/27/2008				<1	<1				
Chloroform	7440-66-6	ug/L	5/12/2008				<1	<1				
Chloroform	7440-66-6	ug/L	7/13/2008				<1	<1				
Chloroform	7440-66-6	ug/L	9/14/2008				<1	<1				
Chloroform	7440-66-6	ug/L	11/17/2008				<1	<1				
Chloroform	7440-66-6	ug/L	4/14/2009				<1	<1				
Chloroform	7440-66-6	ug/L	10/25/2009				<1	<2				
Chloroform	7440-66-6	ug/L	5/10/2010				<1	<1				
Chloroform	7440-66-6	ug/L	11/1/2010				<1	<1				
Chloroform	7440-66-6	ug/L	12/7/2010						<1			
Chloroform	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
Chloroform	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
Chloroform	7440-66-6	ug/L	10/11/2012				<1	<2	<1			
Chloroform	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
Chloroform	7440-66-6	ug/L	10/7/2013				<1	<1				
Chloroform	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
Chloroform	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
Chloroform	7440-66-6	ug/L	4/6/2015					<1				
Chloroform	7440-66-6	ug/L	10/5/2015					<1				
Chloroform	7440-66-6	ug/L	4/4/2016					<1				
Chloroform	7440-66-6	ug/L	10/17/2016					<1				
Chloroform	7440-66-6	ug/L	4/17/2017					<1				
Chloroform	7440-66-6	ug/L	10/11/2017					<1				
Chloroform	7440-66-6	ug/L	4/20/2018					<1				
Chloroform	7440-66-6	ug/L	10/16/2018					<3				
Chloroform	7440-66-6	ug/L	4/16/2019					<3				
Chloroform	7440-66-6	ug/L	10/1/2019					<3				
Chloroform	7440-66-6	ug/L	3/30/2020					<30				
Chloroform	7440-66-6	ug/L	10/7/2020					<3				
Chloroform	7440-66-6	ug/L	4/13/2021					<1				
Chloromethane	7440-66-6	ug/L	2/27/2008				<3	<3				
Chloromethane	7440-66-6	ug/L	5/12/2008				<3	<3				
Chloromethane	7440-66-6	ug/L	7/13/2008				<3	<3				
Chloromethane	7440-66-6	ug/L	9/14/2008				<3	<3				
Chloromethane	7440-66-6	ug/L	11/17/2008				<3	<3				
Chloromethane	7440-66-6	ug/L	4/14/2009				<3	<3				
Chloromethane	7440-66-6	ug/L	10/25/2009				<3	<3				
Chloromethane	7440-66-6	ug/L	5/10/2010				<3	<3				
Chloromethane	7440-66-6	ug/L	11/1/2010				<3	<3				
Chloromethane	7440-66-6	ug/L	12/7/2010						<3			
Chloromethane	7440-66-6	ug/L	10/13/2011				<3	<3	<3			
Chloromethane	7440-66-6	ug/L	4/11/2012				<3	<3	<3			
Chloromethane	7440-66-6	ug/L	10/11/2012				<3	<3	<3			
Chloromethane	7440-66-6	ug/L	3/30/2013				<3	<3	<3			
Chloromethane	7440-66-6	ug/L	10/7/2013				<3	<3				
Chloromethane	7440-66-6	ug/L	6/2/2014				<3	<3	<3			
Chloromethane	7440-66-6	ug/L	10/15/2014				<3	<3	<3			
Chloromethane	7440-66-6	ug/L	4/6/2015					<3				
Chloromethane	7440-66-6	ug/L	10/5/2015					<3				
Chloromethane	7440-66-6	ug/L	4/4/2016					<3				
Chloromethane	7440-66-6	ug/L	10/17/2016					<3				
Chloromethane	7440-66-6	ug/L	4/17/2017					0.426J				
Chloromethane	7440-66-6	ug/L	10/11/2017					<3				
Chloromethane	7440-66-6	ug/L	4/20/2018					<3				
Chloromethane	7440-66-6	ug/L	10/16/2018					<3				
Chloromethane	7440-66-6	ug/L	4/16/2019					<3				
Chloromethane	7440-66-6	ug/L	10/1/2019					<3				

Table 9A
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Chloromethane	7440-66-6	ug/L	3/30/2020					<30				
Chloromethane	7440-66-6	ug/L	10/7/2020					<3				
Chloromethane	7440-66-6	ug/L	4/13/2021					<1				
Chloroprene	7440-66-6	ug/L	4/14/2009				<1	<1				
Chloroprene	7440-66-6	ug/L	5/10/2010				<1	<1				
Chloroprene	7440-66-6	ug/L	12/7/2010						<1			
Chloroprene	7440-66-6	ug/L	10/5/2015					<1				
Chloroprene	7440-66-6	ug/L	3/30/2020					<10				
Chromium	7440-66-6	mg/L	2/27/2008				<0.1	<0.1				
Chromium	7440-66-6	mg/L	5/12/2008				<0.1	<0.1				
Chromium	7440-66-6	mg/L	7/13/2008				<0.1	<0.1				
Chromium	7440-66-6	mg/L	9/14/2008				<0.1	<0.1				
Chromium	7440-66-6	mg/L	11/17/2008				<0.02	<0.02				
Chromium	7440-66-6	mg/L	4/14/2009				<0.1	<0.1				
Chromium	7440-66-6	mg/L	10/25/2009				<0.1	<0.1				
Chromium	7440-66-6	mg/L	5/10/2010				<0.02	<0.02				
Chromium	7440-66-6	mg/L	12/7/2010						<0.02			
Chromium	7440-66-6	mg/L	4/4/2011						<0.1			
Chromium	7440-66-6	mg/L	10/13/2011				<0.02	<0.02	<0.02			
Chromium	7440-66-6	mg/L	4/11/2012				<0.02	<0.02	<0.02			
Chromium	7440-66-6	mg/L	10/11/2012				<0.02	<0.02	<0.02			
Chromium	7440-66-6	mg/L	3/30/2013				<0.02	<0.02	<0.02			
Chromium	7440-66-6	mg/L	10/7/2013				<0.02	<0.02	<0.02			
Chromium	7440-66-6	mg/L	6/2/2014				<0.02	<0.02	<0.02			
Chromium	7440-66-6	mg/L	10/15/2014				<0.02	<0.02	<0.02			
Chromium	7440-66-6	mg/L	4/6/2015					<0.005				
Chromium	7440-66-6	mg/L	10/5/2015					<0.005				
Chromium	7440-66-6	mg/L	4/4/2016					<0.005				
Chromium	7440-66-6	mg/L	10/17/2016					<0.005				
Chromium	7440-66-6	mg/L	4/17/2017					<0.005				
Chromium	7440-66-6	mg/L	10/11/2017					<0.005				
Chromium	7440-66-6	mg/L	4/20/2018					<0.005				
Chromium	7440-66-6	mg/L	10/16/2018					0.00148J				
Chromium	7440-66-6	mg/L	4/16/2019					<0.005				
Chromium	7440-66-6	mg/L	10/1/2019					<0.005				
Chromium	7440-66-6	mg/L	3/30/2020					<0.005				
Chromium	7440-66-6	mg/L	10/7/2020					<0.005				
Chromium	7440-66-6	mg/L	4/13/2021					<0.008				
Chrysene	7440-66-6	ug/L	4/14/2009				<10	<10				
Chrysene	7440-66-6	ug/L	5/10/2010				<10	<10				
Chrysene	7440-66-6	ug/L	12/7/2010						<10			
Chrysene	7440-66-6	ug/L	10/5/2015					<10.2				
Chrysene	7440-66-6	ug/L	3/30/2020					<10.4				
cis-1,2-Dichloroethene	7440-66-6	ug/L	2/27/2008				<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/12/2008				<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	7/13/2008				<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	9/14/2008				<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	11/17/2008				<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/14/2009				<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/25/2009				<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/10/2010				<1	1.63				
cis-1,2-Dichloroethene	7440-66-6	ug/L	11/1/2010				<1	2.25				
cis-1,2-Dichloroethene	7440-66-6	ug/L	12/7/2010						<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/13/2011				<1	2.07	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/11/2012				<1	2.22	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2012				<1	1.86	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2013				<1	2.9	<1			

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2013				<1	4.95				
cis-1,2-Dichloroethene	7440-66-6	ug/L	6/2/2014				<1	5.9	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/15/2014				<1	8.7	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/6/2015					8.69				
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/5/2015					11.4				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2016					33.1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/17/2016					40.3				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/17/2017					<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2017					75				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/20/2018					58.1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2018					59.2				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/16/2019					99.2				
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/1/2019					176				
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2020					124				
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2020					167				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/13/2021					186				
cis-1,3-Dichloropropene	7440-66-6	ug/L	2/27/2008				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/12/2008				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/13/2008				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	9/14/2008				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	11/17/2008				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/14/2009				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/25/2009				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/10/2010				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	11/1/2010				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	12/7/2010						<10			
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/13/2011				<5	<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/11/2012				<5	<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2012				<5	<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2013				<5	<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2013				<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	6/2/2014				<5	<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/15/2014				<5	<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/6/2015					<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/5/2015					<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2016					<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/17/2016					<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/17/2017					<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2017					<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/20/2018					<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2018					<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/16/2019					<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/1/2019					<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2020					<50				
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2020					<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/13/2021					<1				
Cobalt	7440-66-6	mg/L	2/27/2008				0.0243	<0.02				
Cobalt	7440-66-6	mg/L	5/12/2008				<0.02	<0.02				
Cobalt	7440-66-6	mg/L	7/13/2008				0.0217	<0.02				
Cobalt	7440-66-6	mg/L	9/14/2008				<0.02	<0.02				
Cobalt	7440-66-6	mg/L	11/17/2008				<0.02	<0.02				
Cobalt	7440-66-6	mg/L	4/14/2009				<0.02	<0.02				
Cobalt	7440-66-6	mg/L	10/25/2009				<0.02	<0.02				
Cobalt	7440-66-6	mg/L	5/10/2010				0.012	<0.02				
Cobalt	7440-66-6	mg/L	11/1/2010				0.0116	<0.02				
Cobalt	7440-66-6	mg/L	12/7/2010						0.00268			
Cobalt	7440-66-6	mg/L	1/10/2011						0.00336			

Table 9A
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Cobalt	7440-66-6	mg/L	4/4/2011						<0.02			
Cobalt	7440-66-6	mg/L	7/8/2011						<0.02			
Cobalt	7440-66-6	mg/L	8/11/2011						0.002			
Cobalt	7440-66-6	mg/L	10/13/2011				0.0141	<0.02	<0.02			
Cobalt	7440-66-6	mg/L	4/11/2012				0.0104	<0.02	<0.02			
Cobalt	7440-66-6	mg/L	10/11/2012				0.0094	<0.02	0.00166			
Cobalt	7440-66-6	mg/L	3/30/2013				0.0115	0.00213	<0.00132			
Cobalt	7440-66-6	mg/L	10/7/2013				0.0107	0.0119	<0.007			
Cobalt	7440-66-6	mg/L	6/2/2014				0.01	<0.00241	<0.00241			
Cobalt	7440-66-6	mg/L	10/15/2014				0.0104	<0.00241	<0.00241			
Cobalt	7440-66-6	mg/L	4/6/2015					0.00109				
Cobalt	7440-66-6	mg/L	10/5/2015					0.00386				
Cobalt	7440-66-6	mg/L	4/4/2016					0.0092				
Cobalt	7440-66-6	mg/L	10/17/2016					0.0025				
Cobalt	7440-66-6	mg/L	4/17/2017					0.00634				
Cobalt	7440-66-6	mg/L	10/11/2017	0.00633	0.000183J			0.00327				
Cobalt	7440-66-6	mg/L	4/20/2018					0.00375				
Cobalt	7440-66-6	mg/L	4/30/2018	0.00769	0.000089J							
Cobalt	7440-66-6	mg/L	10/16/2018	0.00537	0.000093J			0.00425				0.00607
Cobalt	7440-66-6	mg/L	4/16/2019	0.00639	0.000096J			0.00289				0.00885
Cobalt	7440-66-6	mg/L	10/1/2019	0.00491	<0.0005			0.00398				0.0106
Cobalt	7440-66-6	mg/L	3/30/2020	0.00486	<0.0005			0.00405				0.00988
Cobalt	7440-66-6	mg/L	10/7/2020	0.00558	0.00015J			0.0031				0.00594
Cobalt	7440-66-6	mg/L	4/13/2021	0.006	<0.0004			0.0038				0.008
Cobalt	7440-66-6	mg/L	10/20/2021	0.0071				0.006				0.0095
Cobalt	7440-66-6	mg/L	5/2/2022	0.0056				0.0029				0.0086
Cobalt	7440-66-6	mg/L	10/14/2022	0.0052				0.0038				0.0076
Cobalt	7440-66-6	mg/L	5/1/2023	0.00574				0.00245				0.00916
Cobalt	7440-66-6	mg/L	10/16/2023	0.00706				0.00167				0.00759
Cobalt	7440-66-6	mg/L	4/29/2024	0.00559				0.00126				0.00822
Cobalt	7440-66-6	mg/L	10/10/2024									0.00831
Cobalt	7440-66-6	mg/L	10/9/2024					0.00281				
Cobalt	7440-66-6	mg/L	10/14/2024	0.00581								
Copper	7440-66-6	mg/L	2/27/2008				0.062	0.034				
Copper	7440-66-6	mg/L	5/12/2008				0.083	<0.025				
Copper	7440-66-6	mg/L	7/13/2008				0.047	<0.025				
Copper	7440-66-6	mg/L	9/14/2008				<0.025	<0.025				
Copper	7440-66-6	mg/L	11/17/2008				0.0288	<0.02				
Copper	7440-66-6	mg/L	4/14/2009				<0.025	<0.025				
Copper	7440-66-6	mg/L	10/25/2009				<0.025	<0.025				
Copper	7440-66-6	mg/L	5/10/2010				<0.02	<0.02				
Copper	7440-66-6	mg/L	12/7/2010						<0.02			
Copper	7440-66-6	mg/L	4/4/2011						<0.025			
Copper	7440-66-6	mg/L	10/13/2011				0.0225	<0.02	<0.02			
Copper	7440-66-6	mg/L	4/11/2012				<0.02	<0.02	<0.02			
Copper	7440-66-6	mg/L	10/11/2012				<0.02	<0.02	<0.02			
Copper	7440-66-6	mg/L	3/30/2013				<0.02	<0.02	<0.02			
Copper	7440-66-6	mg/L	10/7/2013				<0.02	<0.02	<0.02			
Copper	7440-66-6	mg/L	6/2/2014				<0.02	<0.02	<0.02			
Copper	7440-66-6	mg/L	10/15/2014				<0.02	0.0569	<0.02			
Copper	7440-66-6	mg/L	4/6/2015					<0.002				
Copper	7440-66-6	mg/L	10/5/2015					<0.002				
Copper	7440-66-6	mg/L	4/4/2016					<0.005				
Copper	7440-66-6	mg/L	10/17/2016					<0.005				
Copper	7440-66-6	mg/L	4/17/2017					<0.005				
Copper	7440-66-6	mg/L	10/11/2017					<0.005				
Copper	7440-66-6	mg/L	4/20/2018					<0.005				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Copper	7440-66-6	mg/L	10/16/2018					0.000873J				
Copper	7440-66-6	mg/L	4/16/2019					<0.005				
Copper	7440-66-6	mg/L	10/1/2019					<0.005				
Copper	7440-66-6	mg/L	3/30/2020					<0.005				
Copper	7440-66-6	mg/L	10/7/2020					<0.005				
Copper	7440-66-6	mg/L	4/13/2021					<0.004				
Cyanide	7440-66-6	mg/L	4/14/2009				<0.01	<0.01				
Cyanide	7440-66-6	mg/L	5/10/2010				<0.01	<0.01				
Cyanide	7440-66-6	mg/L	12/7/2010						<0.01			
Cyanide	7440-66-6	mg/L	10/5/2015					<0.01				
Cyanide	7440-66-6	mg/L	3/30/2020					<0.01				
Delta-BHC	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Delta-BHC	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Delta-BHC	7440-66-6	ug/L	12/7/2010						<0.032			
Delta-BHC	7440-66-6	ug/L	10/5/2015					<0.0333				
Delta-BHC	7440-66-6	ug/L	3/30/2020					<0.033				
Diallate	7440-66-6	ug/L	4/14/2009				<10	<10				
Diallate	7440-66-6	ug/L	5/10/2010				<10	<10				
Diallate	7440-66-6	ug/L	12/7/2010						<10			
Diallate	7440-66-6	ug/L	10/5/2015					<10.2				
Diallate	7440-66-6	ug/L	3/30/2020					<10.4				
Dibenz [a,h] anthracene	7440-66-6	ug/L	4/14/2009				<10	<10				
Dibenz [a,h] anthracene	7440-66-6	ug/L	5/10/2010				<10	<10				
Dibenz [a,h] anthracene	7440-66-6	ug/L	12/7/2010						<10			
Dibenz [a,h] anthracene	7440-66-6	ug/L	10/5/2015					<10.2				
Dibenz [a,h] anthracene	7440-66-6	ug/L	3/30/2020					<10.4				
Dibenzofuran	7440-66-6	ug/L	4/14/2009				<10	<10				
Dibenzofuran	7440-66-6	ug/L	5/10/2010				<10	<10				
Dibenzofuran	7440-66-6	ug/L	12/7/2010						<10			
Dibenzofuran	7440-66-6	ug/L	10/5/2015					<10.2				
Dibenzofuran	7440-66-6	ug/L	3/30/2020					<10.4				
Dibromomethane	7440-66-6	ug/L	2/27/2008				<1	<1				
Dibromomethane	7440-66-6	ug/L	5/12/2008				<1	<1				
Dibromomethane	7440-66-6	ug/L	7/13/2008				<1	<1				
Dibromomethane	7440-66-6	ug/L	9/14/2008				<1	<1				
Dibromomethane	7440-66-6	ug/L	11/17/2008				<1	<1				
Dibromomethane	7440-66-6	ug/L	4/14/2009				<1	<1				
Dibromomethane	7440-66-6	ug/L	10/25/2009				<1	<2				
Dibromomethane	7440-66-6	ug/L	5/10/2010				<1	<1				
Dibromomethane	7440-66-6	ug/L	11/1/2010				<1	<1				
Dibromomethane	7440-66-6	ug/L	12/7/2010						<1			
Dibromomethane	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
Dibromomethane	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
Dibromomethane	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
Dibromomethane	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
Dibromomethane	7440-66-6	ug/L	10/7/2013				<1	<1				
Dibromomethane	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
Dibromomethane	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
Dibromomethane	7440-66-6	ug/L	4/6/2015					<1				
Dibromomethane	7440-66-6	ug/L	10/5/2015					<1				
Dibromomethane	7440-66-6	ug/L	4/4/2016					<1				
Dibromomethane	7440-66-6	ug/L	10/17/2016					<1				
Dibromomethane	7440-66-6	ug/L	4/17/2017					<1				
Dibromomethane	7440-66-6	ug/L	10/11/2017					<1				
Dibromomethane	7440-66-6	ug/L	4/20/2018					<1				
Dibromomethane	7440-66-6	ug/L	10/16/2018					<1				
Dibromomethane	7440-66-6	ug/L	4/16/2019					<1				

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				D	D	D	D	D	D	D	D	D
Dibromomethane	7440-66-6	ug/L	10/1/2019					<1				
Dibromomethane	7440-66-6	ug/L	3/30/2020					<10				
Dibromomethane	7440-66-6	ug/L	10/7/2020					<1				
Dibromomethane	7440-66-6	ug/L	4/13/2021					<1				
Dichlorodifluoromethane	7440-66-6	ug/L	4/14/2009				<3	37.4				
Dichlorodifluoromethane	7440-66-6	ug/L	7/7/2009					33.4				
Dichlorodifluoromethane	7440-66-6	ug/L	9/2/2009					35.1				
Dichlorodifluoromethane	7440-66-6	ug/L	1/2/2010					37.5				
Dichlorodifluoromethane	7440-66-6	ug/L	5/10/2010				<3	23.5				
Dichlorodifluoromethane	7440-66-6	ug/L	11/1/2010					32.2				
Dichlorodifluoromethane	7440-66-6	ug/L	12/7/2010						<3			
Dichlorodifluoromethane	7440-66-6	ug/L	4/4/2011					13.7				
Dichlorodifluoromethane	7440-66-6	ug/L	10/13/2011					15.6				
Dichlorodifluoromethane	7440-66-6	ug/L	4/11/2012					7.37				
Dichlorodifluoromethane	7440-66-6	ug/L	10/11/2012					10.4				
Dichlorodifluoromethane	7440-66-6	ug/L	3/30/2013					7.82				
Dichlorodifluoromethane	7440-66-6	ug/L	10/7/2013					8.29				
Dichlorodifluoromethane	7440-66-6	ug/L	6/2/2014					5.68				
Dichlorodifluoromethane	7440-66-6	ug/L	10/15/2014					8.73				
Dichlorodifluoromethane	7440-66-6	ug/L	4/6/2015					6.27				
Dichlorodifluoromethane	7440-66-6	ug/L	10/5/2015					4.62				
Dichlorodifluoromethane	7440-66-6	ug/L	4/4/2016					5.99				
Dichlorodifluoromethane	7440-66-6	ug/L	10/17/2016					11.9				
Dichlorodifluoromethane	7440-66-6	ug/L	4/17/2017					<3				
Dichlorodifluoromethane	7440-66-6	ug/L	10/11/2017					3.01				
Dichlorodifluoromethane	7440-66-6	ug/L	4/20/2018					3.84				
Dichlorodifluoromethane	7440-66-6	ug/L	10/16/2018					6.4				
Dichlorodifluoromethane	7440-66-6	ug/L	4/16/2019					1.99J				
Dichlorodifluoromethane	7440-66-6	ug/L	10/1/2019					1.74J				
Dichlorodifluoromethane	7440-66-6	ug/L	3/30/2020					<30				
Dichlorodifluoromethane	7440-66-6	ug/L	10/7/2020					0.983J				
Dichlorodifluoromethane	7440-66-6	ug/L	4/13/2021					1.3				
Dieldrin	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Dieldrin	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Dieldrin	7440-66-6	ug/L	12/7/2010						<0.032			
Dieldrin	7440-66-6	ug/L	10/5/2015					<0.0333				
Dieldrin	7440-66-6	ug/L	3/30/2020					<0.033				
Diethyl phthalate	7440-66-6	ug/L	4/14/2009				<10	<10				
Diethyl phthalate	7440-66-6	ug/L	5/10/2010				<10	<10				
Diethyl phthalate	7440-66-6	ug/L	12/7/2010						<10			
Diethyl phthalate	7440-66-6	ug/L	10/5/2015					<10.2				
Diethyl phthalate	7440-66-6	ug/L	3/30/2020					<10.4				
Dimethoate	7440-66-6	ug/L	4/14/2009				<10	<10				
Dimethoate	7440-66-6	ug/L	5/10/2010				<10	<10				
Dimethoate	7440-66-6	ug/L	12/7/2010						<10			
Dimethoate	7440-66-6	ug/L	10/5/2015					<10.2				
Dimethoate	7440-66-6	ug/L	3/30/2020					<10.4				
Dimethyl phthalate	7440-66-6	ug/L	4/14/2009				<10	<10				
Dimethyl phthalate	7440-66-6	ug/L	5/10/2010				<10	<10				
Dimethyl phthalate	7440-66-6	ug/L	12/7/2010						<10			
Dimethyl phthalate	7440-66-6	ug/L	10/5/2015					<10.2				
Dimethyl phthalate	7440-66-6	ug/L	3/30/2020					<10.4				
Dimethylaminoazobenzene	7440-66-6	ug/L	4/14/2009				<10	<10				
Dimethylaminoazobenzene	7440-66-6	ug/L	5/10/2010				<10	<10				
Dimethylaminoazobenzene	7440-66-6	ug/L	12/7/2010						<10			
Dimethylaminoazobenzene	7440-66-6	ug/L	10/5/2015					<10.2				
Dimethylaminoazobenzene	7440-66-6	ug/L	3/30/2020					<10.4				

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				D	D	D	D	D	D	D	D	D
Di-n-butyl phthalate	7440-66-6	ug/L	4/14/2009				<10	<10				
Di-n-butyl phthalate	7440-66-6	ug/L	5/10/2010				<10	<10				
Di-n-butyl phthalate	7440-66-6	ug/L	12/7/2010						<10			
Di-n-butyl phthalate	7440-66-6	ug/L	10/5/2015					<10.2				
Di-n-butyl phthalate	7440-66-6	ug/L	3/30/2020					<10.4				
Di-n-octyl phthalate	7440-66-6	ug/L	4/14/2009				<10	<10				
Di-n-octyl phthalate	7440-66-6	ug/L	5/10/2010				<10	<10				
Di-n-octyl phthalate	7440-66-6	ug/L	12/7/2010						<10			
Di-n-octyl phthalate	7440-66-6	ug/L	10/5/2015					<20.4				
Di-n-octyl phthalate	7440-66-6	ug/L	3/30/2020					<20.8				
Dinoseb	7440-66-6	ug/L	4/14/2009				<10	<10				
Dinoseb	7440-66-6	ug/L	5/10/2010				<10	<10				
Dinoseb	7440-66-6	ug/L	12/7/2010						<10			
Dinoseb	7440-66-6	ug/L	10/5/2015					<10.2				
Dinoseb	7440-66-6	ug/L	3/30/2020					<10.4				
Diphenylamine	7440-66-6	ug/L	4/14/2009				<10	<10				
Diphenylamine	7440-66-6	ug/L	5/10/2010				<10	<10				
Diphenylamine	7440-66-6	ug/L	12/7/2010						<10			
Diphenylamine	7440-66-6	ug/L	10/5/2015					<10.2				
Diphenylamine	7440-66-6	ug/L	3/30/2020					<10.4				
Disulfoton	7440-66-6	ug/L	4/14/2009				<70	<70				
Disulfoton	7440-66-6	ug/L	5/10/2010				<10	<10				
Disulfoton	7440-66-6	ug/L	12/7/2010						<10			
Disulfoton	7440-66-6	ug/L	10/5/2015					<10.2				
Disulfoton	7440-66-6	ug/L	3/30/2020					<10.4				
Endosulfan I	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Endosulfan I	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Endosulfan I	7440-66-6	ug/L	12/7/2010						<0.032			
Endosulfan I	7440-66-6	ug/L	10/5/2015					<0.0333				
Endosulfan I	7440-66-6	ug/L	3/30/2020					<0.033				
Endosulfan II	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Endosulfan II	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Endosulfan II	7440-66-6	ug/L	12/7/2010						<0.032			
Endosulfan II	7440-66-6	ug/L	10/5/2015					<0.0333				
Endosulfan II	7440-66-6	ug/L	3/30/2020					<0.033				
Endosulfan sulfate	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Endosulfan sulfate	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Endosulfan sulfate	7440-66-6	ug/L	12/7/2010						<0.032			
Endosulfan sulfate	7440-66-6	ug/L	10/5/2015					<0.0333				
Endosulfan sulfate	7440-66-6	ug/L	3/30/2020					<0.033				
Endrin	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Endrin	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Endrin	7440-66-6	ug/L	12/7/2010						<0.032			
Endrin	7440-66-6	ug/L	10/5/2015					0.00206J				
Endrin	7440-66-6	ug/L	3/30/2020					<0.033				
Endrin aldehyde	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Endrin aldehyde	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Endrin aldehyde	7440-66-6	ug/L	12/7/2010						<0.032			
Endrin aldehyde	7440-66-6	ug/L	10/5/2015					<0.0333				
Endrin aldehyde	7440-66-6	ug/L	3/30/2020					<0.033				
Ethyl Methacrylate	7440-66-6	ug/L	4/14/2009				<5	<2				
Ethyl Methacrylate	7440-66-6	ug/L	5/10/2010				<20	<20				
Ethyl Methacrylate	7440-66-6	ug/L	12/7/2010						<5			
Ethyl Methacrylate	7440-66-6	ug/L	10/5/2015					<2				
Ethyl Methacrylate	7440-66-6	ug/L	3/30/2020					<20				
Ethyl Methanesulfonate	7440-66-6	ug/L	4/14/2009				<10	<10				
Ethyl Methanesulfonate	7440-66-6	ug/L	5/10/2010				<10	<10				

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				D	D	D	D	D	D	D	D	D
Ethyl Methanesulfonate	7440-66-6	ug/L	12/7/2010						<10			
Ethyl Methanesulfonate	7440-66-6	ug/L	10/5/2015					<10.2				
Ethyl Methanesulfonate	7440-66-6	ug/L	3/30/2020					<10.4				
Ethylbenzene	7440-66-6	ug/L	2/27/2008				<1	<1				
Ethylbenzene	7440-66-6	ug/L	5/12/2008				<1	<1				
Ethylbenzene	7440-66-6	ug/L	7/13/2008				<1	<1				
Ethylbenzene	7440-66-6	ug/L	9/14/2008				<1	<1				
Ethylbenzene	7440-66-6	ug/L	11/17/2008				<1	<1				
Ethylbenzene	7440-66-6	ug/L	4/14/2009				<1	<1				
Ethylbenzene	7440-66-6	ug/L	10/25/2009				<1	<2				
Ethylbenzene	7440-66-6	ug/L	5/10/2010				<1	<1				
Ethylbenzene	7440-66-6	ug/L	11/1/2010				<1	<1				
Ethylbenzene	7440-66-6	ug/L	12/7/2010						<1			
Ethylbenzene	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
Ethylbenzene	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
Ethylbenzene	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
Ethylbenzene	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
Ethylbenzene	7440-66-6	ug/L	10/7/2013				<1	<1				
Ethylbenzene	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
Ethylbenzene	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
Ethylbenzene	7440-66-6	ug/L	4/6/2015					<1				
Ethylbenzene	7440-66-6	ug/L	10/5/2015					<1				
Ethylbenzene	7440-66-6	ug/L	4/4/2016					<1				
Ethylbenzene	7440-66-6	ug/L	10/17/2016					<1				
Ethylbenzene	7440-66-6	ug/L	4/17/2017					<1				
Ethylbenzene	7440-66-6	ug/L	10/11/2017					<1				
Ethylbenzene	7440-66-6	ug/L	4/20/2018					<1				
Ethylbenzene	7440-66-6	ug/L	10/16/2018					<1				
Ethylbenzene	7440-66-6	ug/L	4/16/2019					<1				
Ethylbenzene	7440-66-6	ug/L	10/1/2019					<1				
Ethylbenzene	7440-66-6	ug/L	3/30/2020					<10				
Ethylbenzene	7440-66-6	ug/L	10/7/2020					<1				
Ethylbenzene	7440-66-6	ug/L	4/13/2021					<1				
Famphur	7440-66-6	ug/L	4/14/2009				<20	<20				
Famphur	7440-66-6	ug/L	5/10/2010				<20	<20				
Famphur	7440-66-6	ug/L	12/7/2010						<20			
Famphur	7440-66-6	ug/L	10/5/2015					<20.4				
Famphur	7440-66-6	ug/L	3/30/2020					<10.4				
Fluoranthene	7440-66-6	ug/L	4/14/2009				<10	<10				
Fluoranthene	7440-66-6	ug/L	5/10/2010				<10	<10				
Fluoranthene	7440-66-6	ug/L	12/7/2010						<10			
Fluoranthene	7440-66-6	ug/L	10/5/2015					<10.2				
Fluoranthene	7440-66-6	ug/L	3/30/2020					<10.4				
Fluorene	7440-66-6	ug/L	4/14/2009				<10	<10				
Fluorene	7440-66-6	ug/L	5/10/2010				<10	<10				
Fluorene	7440-66-6	ug/L	12/7/2010						<10			
Fluorene	7440-66-6	ug/L	10/5/2015					<10.2				
Fluorene	7440-66-6	ug/L	3/30/2020					<10.4				
Gamma-BHC [Lindane]	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Gamma-BHC [Lindane]	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Gamma-BHC [Lindane]	7440-66-6	ug/L	12/7/2010						<0.032			
Gamma-BHC [Lindane]	7440-66-6	ug/L	10/5/2015					<0.0333				
Gamma-BHC [Lindane]	7440-66-6	ug/L	3/30/2020					0.00202J				
Heptachlor	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Heptachlor	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Heptachlor	7440-66-6	ug/L	12/7/2010						<0.032			
Heptachlor	7440-66-6	ug/L	10/5/2015					0.00323J				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Heptachlor	7440-66-6	ug/L	3/30/2020					<0.033				
Heptachlor Epoxide	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Heptachlor Epoxide	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Heptachlor Epoxide	7440-66-6	ug/L	12/7/2010						<0.032			
Heptachlor Epoxide	7440-66-6	ug/L	10/5/2015					<0.0333				
Heptachlor Epoxide	7440-66-6	ug/L	3/30/2020					<0.033				
Hexachlorobenzene	7440-66-6	ug/L	4/14/2009				<10	<10				
Hexachlorobenzene	7440-66-6	ug/L	5/10/2010				<10	<10				
Hexachlorobenzene	7440-66-6	ug/L	12/7/2010						<10			
Hexachlorobenzene	7440-66-6	ug/L	10/5/2015					<10.2				
Hexachlorobenzene	7440-66-6	ug/L	3/30/2020					<10.4				
Hexachlorobutadiene	7440-66-6	ug/L	4/14/2009				<10	<10				
Hexachlorobutadiene	7440-66-6	ug/L	5/10/2010				<10	<10				
Hexachlorobutadiene	7440-66-6	ug/L	12/7/2010						<10			
Hexachlorobutadiene	7440-66-6	ug/L	10/5/2015					<10.2				
Hexachlorobutadiene	7440-66-6	ug/L	3/30/2020					<10.4				
Hexachlorocyclopentadiene	7440-66-6	ug/L	4/14/2009				<10	<10				
Hexachlorocyclopentadiene	7440-66-6	ug/L	5/10/2010				<10	<10				
Hexachlorocyclopentadiene	7440-66-6	ug/L	12/7/2010						<10			
Hexachlorocyclopentadiene	7440-66-6	ug/L	10/5/2015					<20.4				
Hexachlorocyclopentadiene	7440-66-6	ug/L	3/30/2020					<10.4				
Hexachloroethane	7440-66-6	ug/L	4/14/2009				<10	<10				
Hexachloroethane	7440-66-6	ug/L	5/10/2010				<10	<10				
Hexachloroethane	7440-66-6	ug/L	12/7/2010						<10			
Hexachloroethane	7440-66-6	ug/L	10/5/2015					<10.2				
Hexachloroethane	7440-66-6	ug/L	3/30/2020					<10.4				
Hexachloropropene	7440-66-6	ug/L	4/14/2009				<10	<10				
Hexachloropropene	7440-66-6	ug/L	5/10/2010				<10	<10				
Hexachloropropene	7440-66-6	ug/L	12/7/2010						<10			
Hexachloropropene	7440-66-6	ug/L	10/5/2015					<10.2				
Hexachloropropene	7440-66-6	ug/L	3/30/2020					<10.4				
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	4/14/2009				<10	<10				
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	5/10/2010				<10	<10				
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	12/7/2010						<10			
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	10/5/2015					<10.2				
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	3/30/2020					<10.4				
Iodomethane	7440-66-6	ug/L	2/27/2008				<10	<10				
Iodomethane	7440-66-6	ug/L	5/12/2008				<10	<10				
Iodomethane	7440-66-6	ug/L	7/13/2008				<10	<10				
Iodomethane	7440-66-6	ug/L	9/14/2008				<10	<10				
Iodomethane	7440-66-6	ug/L	11/17/2008				<10	<10				
Iodomethane	7440-66-6	ug/L	4/14/2009				<20	<10				
Iodomethane	7440-66-6	ug/L	10/25/2009				<20	<10				
Iodomethane	7440-66-6	ug/L	5/10/2010				<10	<10				
Iodomethane	7440-66-6	ug/L	11/1/2010				<10	<10				
Iodomethane	7440-66-6	ug/L	12/7/2010						<10			
Iodomethane	7440-66-6	ug/L	10/13/2011				<10	<10	<10			
Iodomethane	7440-66-6	ug/L	4/11/2012				<10	<10	<10			
Iodomethane	7440-66-6	ug/L	10/11/2012				<10	<10	<10			
Iodomethane	7440-66-6	ug/L	3/30/2013				<10	<10	<10			
Iodomethane	7440-66-6	ug/L	10/7/2013				<10	<10				
Iodomethane	7440-66-6	ug/L	6/2/2014				<10	<10	<10			
Iodomethane	7440-66-6	ug/L	10/15/2014				<10	<10	<10			
Iodomethane	7440-66-6	ug/L	4/6/2015					<10				
Iodomethane	7440-66-6	ug/L	10/5/2015					<10				
Iodomethane	7440-66-6	ug/L	4/4/2016					<10				
Iodomethane	7440-66-6	ug/L	10/17/2016					<100				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Iodomethane	7440-66-6	ug/L	4/17/2017					<10				
Iodomethane	7440-66-6	ug/L	10/11/2017					<10				
Iodomethane	7440-66-6	ug/L	4/20/2018					<10				
Iodomethane	7440-66-6	ug/L	10/16/2018					<10				
Iodomethane	7440-66-6	ug/L	4/16/2019					<10				
Iodomethane	7440-66-6	ug/L	10/1/2019					<10				
Iodomethane	7440-66-6	ug/L	3/30/2020					<100				
Iodomethane	7440-66-6	ug/L	10/7/2020					<10				
Iodomethane	7440-66-6	ug/L	4/13/2021					<1				
Iron, Total	7440-66-6	mg/L	4/6/2015				4.02	0.184	0.328			
Iron, Total	7440-66-6	mg/L	10/5/2015				4.79	0.725	7.01			
Iron, Total	7440-66-6	mg/L	4/4/2016				3.25	8.88	0.199			
Iron, Total	7440-66-6	mg/L	10/17/2016				4.79	0.638	<0.1			
Isobutanol	7440-66-6	mg/L	4/14/2009				<10	<10				
Isobutanol	7440-66-6	mg/L	5/10/2010				<10	<10				
Isobutanol	7440-66-6	mg/L	12/7/2010						<10			
Isobutanol	7440-66-6	mg/L	10/5/2015					<10				
Isobutanol	7440-66-6	mg/L	3/30/2020					<10				
Isodrin	7440-66-6	ug/L	4/14/2009				<10	<10				
Isodrin	7440-66-6	ug/L	5/10/2010				<10	<10				
Isodrin	7440-66-6	ug/L	12/7/2010						<10			
Isodrin	7440-66-6	ug/L	10/5/2015					<10.2				
Isodrin	7440-66-6	ug/L	3/30/2020					<10.4				
Isophorone	7440-66-6	ug/L	4/14/2009				<10	<10				
Isophorone	7440-66-6	ug/L	5/10/2010				<10	<10				
Isophorone	7440-66-6	ug/L	12/7/2010						<10			
Isophorone	7440-66-6	ug/L	10/5/2015					<10.2				
Isophorone	7440-66-6	ug/L	3/30/2020					<10.4				
Isosafrole	7440-66-6	ug/L	4/14/2009				<10	<10				
Isosafrole	7440-66-6	ug/L	5/10/2010				<10	<10				
Isosafrole	7440-66-6	ug/L	12/7/2010						<10			
Isosafrole	7440-66-6	ug/L	10/5/2015					<10.2				
Isosafrole	7440-66-6	ug/L	3/30/2020					<10.4				
Kepone	7440-66-6	ug/L	4/14/2009				<10	<10				
Kepone	7440-66-6	ug/L	5/10/2010				<10	<10				
Kepone	7440-66-6	ug/L	12/7/2010						<10			
Kepone	7440-66-6	ug/L	10/5/2015					<10.2				
Kepone	7440-66-6	ug/L	3/30/2020					<10.4				
Lead	7440-66-6	mg/L	2/27/2008				0.023	<0.005				
Lead	7440-66-6	mg/L	5/12/2008				0.029	<0.005				
Lead	7440-66-6	mg/L	7/13/2008				0.03	<0.005				
Lead	7440-66-6	mg/L	9/14/2008				<0.005	<0.005				
Lead	7440-66-6	mg/L	11/17/2008				0.018	<0.004				
Lead	7440-66-6	mg/L	4/14/2009				0.0094	<0.005				
Lead	7440-66-6	mg/L	7/7/2009				<0.005					
Lead	7440-66-6	mg/L	9/2/2009				0.0051; 0.0056					
Lead	7440-66-6	mg/L	10/25/2009				<0.005	<0.005				
Lead	7440-66-6	mg/L	1/2/2010				0.0086					
Lead	7440-66-6	mg/L	5/10/2010				0.005	<0.002				
Lead	7440-66-6	mg/L	12/7/2010						<0.004			
Lead	7440-66-6	mg/L	4/4/2011						<0.005			
Lead	7440-66-6	mg/L	10/13/2011				0.0077	<0.004	<0.004			
Lead	7440-66-6	mg/L	4/11/2012				<0.004	<0.004	<0.004			
Lead	7440-66-6	mg/L	10/11/2012				<0.004	<0.004	<0.004			
Lead	7440-66-6	mg/L	3/30/2013				<0.004	<0.004	<0.004			
Lead	7440-66-6	mg/L	10/7/2013				<0.004	<0.004	<0.004			
Lead	7440-66-6	mg/L	6/2/2014				<0.004	<0.004	<0.004			

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				D	D	D	D	D	D	D	D	D
Lead	7440-66-6	mg/L	10/15/2014				<0.004	<0.004	<0.004			
Lead	7440-66-6	mg/L	4/6/2015					<0.0005				
Lead	7440-66-6	mg/L	10/5/2015					<0.0005				
Lead	7440-66-6	mg/L	4/4/2016					0.00116				
Lead	7440-66-6	mg/L	10/17/2016					<0.0005				
Lead	7440-66-6	mg/L	4/17/2017					<0.0005				
Lead	7440-66-6	mg/L	10/11/2017					<0.0005				
Lead	7440-66-6	mg/L	4/20/2018					0.0003J				
Lead	7440-66-6	mg/L	10/16/2018					<0.0005				
Lead	7440-66-6	mg/L	4/16/2019					0.000321J				
Lead	7440-66-6	mg/L	10/1/2019					<0.0005				
Lead	7440-66-6	mg/L	3/30/2020					<0.0005				
Lead	7440-66-6	mg/L	10/7/2020					0.000594				
Lead	7440-66-6	mg/L	4/13/2021					<0.004				
m/p-Cresol	7440-66-6	ug/L	4/14/2009				<10	<10				
m/p-Cresol	7440-66-6	ug/L	5/10/2010				<10	<10				
m/p-Cresol	7440-66-6	ug/L	12/7/2010						<10			
m/p-Cresol	7440-66-6	ug/L	10/5/2015					<10.2				
m/p-Cresol	7440-66-6	ug/L	3/30/2020					<10.4				
Magnesium	7440-66-6	mg/L	6/2/2014				85.2	94.2	22.7			
Magnesium	7440-66-6	mg/L	10/15/2014				87	89.4	26.9			
Magnesium	7440-66-6	mg/L	4/16/2019									85.3
Magnesium	7440-66-6	mg/L	10/1/2019									78.8
Manganese	7440-66-6	mg/L	4/6/2015				5.19	0.0365	0.00918J			
Manganese	7440-66-6	mg/L	10/5/2015				5.8	0.105	0.217			
Manganese	7440-66-6	mg/L	4/4/2016				5.14	0.215	0.00452J			
Manganese	7440-66-6	mg/L	10/17/2016				5.01	0.0825	<0.01			
Mercury	7440-66-6	mg/L	4/14/2009				<0.0002	<0.0002				
Mercury	7440-66-6	mg/L	5/10/2010				<0.0002	<0.0002				
Mercury	7440-66-6	mg/L	12/7/2010						<0.0002			
Mercury	7440-66-6	mg/L	10/5/2015					<0.0002				
Mercury	7440-66-6	mg/L	3/30/2020					<0.0002				
Methacrylonitrile	7440-66-6	ug/L	4/14/2009				<1	<1				
Methacrylonitrile	7440-66-6	ug/L	5/10/2010				<1	<1				
Methacrylonitrile	7440-66-6	ug/L	12/7/2010						<2			
Methacrylonitrile	7440-66-6	ug/L	10/5/2015					<10				
Methacrylonitrile	7440-66-6	ug/L	3/30/2020					<100				
Methane, Dissolved	7440-66-6	mg/L	4/6/2015				0.145	0.0562	<0.005			
Methane, Dissolved	7440-66-6	mg/L	10/5/2015				0.0977	0.156	0.000857			
Methane, Dissolved	7440-66-6	mg/L	4/4/2016				0.0835	0.658	<0.00058			
Methane, Dissolved	7440-66-6	mg/L	10/17/2016				0.053	0.606	0.000505J			
Methapyrilene	7440-66-6	ug/L	4/14/2009				<10	<10				
Methapyrilene	7440-66-6	ug/L	5/10/2010				<10	<10				
Methapyrilene	7440-66-6	ug/L	12/7/2010						<10			
Methapyrilene	7440-66-6	ug/L	10/5/2015					<10.2				
Methapyrilene	7440-66-6	ug/L	3/30/2020					<10.4				
Methoxychlor	7440-66-6	ug/L	4/14/2009				<0.032	<0.032				
Methoxychlor	7440-66-6	ug/L	5/10/2010				<0.032	<0.032				
Methoxychlor	7440-66-6	ug/L	12/7/2010						<0.032			
Methoxychlor	7440-66-6	ug/L	10/5/2015					<0.0333				
Methoxychlor	7440-66-6	ug/L	3/30/2020					<0.033				
Methyl Methacrylate	7440-66-6	ug/L	4/14/2009				<2	<2				
Methyl Methacrylate	7440-66-6	ug/L	5/10/2010				<5	<5				
Methyl Methacrylate	7440-66-6	ug/L	12/7/2010						<4			
Methyl Methacrylate	7440-66-6	ug/L	10/5/2015					<2				
Methyl Methacrylate	7440-66-6	ug/L	3/30/2020					<20				
Methyl Methanesulfonate	7440-66-6	ug/L	4/14/2009				<10	<10				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Methyl Methanesulfonate	7440-66-6	ug/L	5/10/2010				<10	<10				
Methyl Methanesulfonate	7440-66-6	ug/L	12/7/2010						<10			
Methyl Methanesulfonate	7440-66-6	ug/L	10/5/2015					<10.2				
Methyl Methanesulfonate	7440-66-6	ug/L	3/30/2020					<10.4				
Methylene Chloride	7440-66-6	ug/L	2/27/2008				<5	<5				
Methylene Chloride	7440-66-6	ug/L	5/12/2008				<5	<5				
Methylene Chloride	7440-66-6	ug/L	7/13/2008				<5	<5				
Methylene Chloride	7440-66-6	ug/L	9/14/2008				<5	<5				
Methylene Chloride	7440-66-6	ug/L	11/17/2008				<5	<5				
Methylene Chloride	7440-66-6	ug/L	4/14/2009				<5	<5				
Methylene Chloride	7440-66-6	ug/L	10/25/2009				<5	<5				
Methylene Chloride	7440-66-6	ug/L	5/10/2010				<5	<5				
Methylene Chloride	7440-66-6	ug/L	11/1/2010				<5	<5				
Methylene Chloride	7440-66-6	ug/L	12/7/2010						<5			
Methylene Chloride	7440-66-6	ug/L	10/13/2011				<5	<5	<5			
Methylene Chloride	7440-66-6	ug/L	4/11/2012				<5	<5	<5			
Methylene Chloride	7440-66-6	ug/L	10/11/2012				<5	<5	<5			
Methylene Chloride	7440-66-6	ug/L	3/30/2013				<5	<5	<5			
Methylene Chloride	7440-66-6	ug/L	10/7/2013				<5	<5				
Methylene Chloride	7440-66-6	ug/L	6/2/2014				<5	<5	<5			
Methylene Chloride	7440-66-6	ug/L	10/15/2014				<5	<5	<5			
Methylene Chloride	7440-66-6	ug/L	4/6/2015					<5				
Methylene Chloride	7440-66-6	ug/L	10/5/2015					0.673J				
Methylene Chloride	7440-66-6	ug/L	4/4/2016					0.523J				
Methylene Chloride	7440-66-6	ug/L	10/17/2016					1.3J				
Methylene Chloride	7440-66-6	ug/L	4/17/2017					<5				
Methylene Chloride	7440-66-6	ug/L	10/11/2017					0.727J				
Methylene Chloride	7440-66-6	ug/L	4/20/2018					0.656J				
Methylene Chloride	7440-66-6	ug/L	10/16/2018					<5				
Methylene Chloride	7440-66-6	ug/L	4/16/2019					<5				
Methylene Chloride	7440-66-6	ug/L	10/1/2019					<5				
Methylene Chloride	7440-66-6	ug/L	3/30/2020					<50				
Methylene Chloride	7440-66-6	ug/L	10/7/2020					<5				
Methylene Chloride	7440-66-6	ug/L	4/13/2021					<5				
Naphthalene	7440-66-6	ug/L	4/14/2009				<20	<5				
Naphthalene	7440-66-6	ug/L	5/10/2010				<5	<5				
Naphthalene	7440-66-6	ug/L	12/7/2010						<5			
Naphthalene	7440-66-6	ug/L	10/5/2015					<5				
Naphthalene	7440-66-6	ug/L	3/30/2020					<50				
Nickel	7440-66-6	mg/L	2/27/2008				0.051	<0.01				
Nickel	7440-66-6	mg/L	5/12/2008				0.062	<0.01				
Nickel	7440-66-6	mg/L	7/13/2008				0.054	<0.01				
Nickel	7440-66-6	mg/L	9/14/2008				0.023	<0.01				
Nickel	7440-66-6	mg/L	11/17/2008				<0.05	<0.05				
Nickel	7440-66-6	mg/L	4/14/2009				0.047	0.016				
Nickel	7440-66-6	mg/L	7/7/2009				0.027	<0.01				
Nickel	7440-66-6	mg/L	9/2/2009				0.029; 0.032	<0.01				
Nickel	7440-66-6	mg/L	10/25/2009				0.031	<0.01				
Nickel	7440-66-6	mg/L	1/2/2010				0.042	<0.01				
Nickel	7440-66-6	mg/L	5/10/2010				<0.05	<0.05				
Nickel	7440-66-6	mg/L	12/7/2010						<0.05			
Nickel	7440-66-6	mg/L	4/4/2011						<0.01			
Nickel	7440-66-6	mg/L	10/13/2011				<0.05	<0.05	<0.05			
Nickel	7440-66-6	mg/L	4/11/2012				<0.05	<0.05	<0.05			
Nickel	7440-66-6	mg/L	10/11/2012				<0.05	<0.05	<0.05			
Nickel	7440-66-6	mg/L	3/30/2013				<0.05	<0.05	<0.05			
Nickel	7440-66-6	mg/L	10/7/2013				<0.05	<0.05	<0.05			

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Nickel	7440-66-6	mg/L	6/2/2014				0.023J	<0.05	<0.05			
Nickel	7440-66-6	mg/L	10/15/2014				0.0367J	0.0155J	0.00779J			
Nickel	7440-66-6	mg/L	4/6/2015					0.00294J	<0.005			
Nickel	7440-66-6	mg/L	10/5/2015					0.00375J	0.00435J			
Nickel	7440-66-6	mg/L	4/4/2016					0.0046J	<0.005			
Nickel	7440-66-6	mg/L	10/17/2016					0.00324J	<0.005		<0.005	
Nickel	7440-66-6	mg/L	4/17/2017					0.00528				
Nickel	7440-66-6	mg/L	10/11/2017					0.00385J				
Nickel	7440-66-6	mg/L	4/20/2018					0.00438J				
Nickel	7440-66-6	mg/L	10/16/2018					0.00552				
Nickel	7440-66-6	mg/L	4/16/2019					0.00385J				
Nickel	7440-66-6	mg/L	10/1/2019					0.0036J				
Nickel	7440-66-6	mg/L	3/30/2020					0.00472J				
Nickel	7440-66-6	mg/L	10/7/2020					0.00368J				
Nickel	7440-66-6	mg/L	4/13/2021					0.0047				
Nitrate (NO3)	7440-66-6	mg/L	4/6/2015				<0.1	0.0614J	2.98			
Nitrate (NO3)	7440-66-6	mg/L	10/5/2015				<0.1	<0.1	2.93			
Nitrate (NO3)	7440-66-6	mg/L	4/4/2016				<0.1	<0.1	3.42			
Nitrate (NO3)	7440-66-6	mg/L	10/17/2016				0.0984J	<0.1	3.73			
Nitrobenzene	7440-66-6	ug/L	4/14/2009				<10	<10				
Nitrobenzene	7440-66-6	ug/L	5/10/2010				<10	<10				
Nitrobenzene	7440-66-6	ug/L	12/7/2010						<10			
Nitrobenzene	7440-66-6	ug/L	10/5/2015					<10.2				
Nitrobenzene	7440-66-6	ug/L	3/30/2020					<10.4				
N-Nitrosodiethylamine	7440-66-6	ug/L	4/14/2009				<10	<10				
N-Nitrosodiethylamine	7440-66-6	ug/L	5/10/2010				<10	<10				
N-Nitrosodiethylamine	7440-66-6	ug/L	12/7/2010						<10			
N-Nitrosodiethylamine	7440-66-6	ug/L	10/5/2015					<10.2				
N-Nitrosodiethylamine	7440-66-6	ug/L	3/30/2020					<10.4				
N-Nitrosodimethylamine	7440-66-6	ug/L	4/14/2009				<10	<10				
N-Nitrosodimethylamine	7440-66-6	ug/L	5/10/2010				<10	<10				
N-Nitrosodimethylamine	7440-66-6	ug/L	12/7/2010						<10			
N-Nitrosodimethylamine	7440-66-6	ug/L	10/5/2015					<10.2				
N-Nitrosodimethylamine	7440-66-6	ug/L	3/30/2020					<10.4				
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	4/14/2009				<10	<10				
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	5/10/2010				<10	<10				
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	12/7/2010						<10			
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	10/5/2015					<10.2				
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	3/30/2020					<10.4				
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	4/14/2009				<10	<10				
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	5/10/2010				<10	<10				
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	12/7/2010						<10			
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	10/5/2015					<10.2				
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	3/30/2020					<10.4				
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/14/2009				<10	<10				
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/10/2010				<10	<10				
N-Nitrosodiphenylamine	7440-66-6	ug/L	12/7/2010						<10			
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/5/2015					<10.2				
N-Nitrosodiphenylamine	7440-66-6	ug/L	3/30/2020					<10.4				
N-Nitrosomethylethalamine	7440-66-6	ug/L	4/14/2009				<10	<10				
N-Nitrosomethylethalamine	7440-66-6	ug/L	5/10/2010				<10	<10				
N-Nitrosomethylethalamine	7440-66-6	ug/L	12/7/2010						<10			
N-Nitrosomethylethalamine	7440-66-6	ug/L	10/5/2015					<10.2				
N-Nitrosomethylethalamine	7440-66-6	ug/L	3/30/2020					<10.4				
N-Nitrosopiperidine	7440-66-6	ug/L	4/14/2009				<10	<10				
N-Nitrosopiperidine	7440-66-6	ug/L	5/10/2010				<10	<10				
N-Nitrosopiperidine	7440-66-6	ug/L	12/7/2010						<10			

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				D	D	D	D	D	D	D	D	D
N-Nitrosopiperidine	7440-66-6	ug/L	10/5/2015					<10.2				
N-Nitrosopiperidine	7440-66-6	ug/L	3/30/2020					<10.4				
N-Nitrosopyrrolidine	7440-66-6	ug/L	4/14/2009					<10				
N-Nitrosopyrrolidine	7440-66-6	ug/L	5/10/2010				<10	<10				
N-Nitrosopyrrolidine	7440-66-6	ug/L	12/7/2010						<10			
N-Nitrosopyrrolidine	7440-66-6	ug/L	10/5/2015					<10.2				
N-Nitrosopyrrolidine	7440-66-6	ug/L	3/30/2020					<10.4				
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	4/14/2009				<30	<30				
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	5/10/2010				<10	<10				
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	12/7/2010						<10			
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	10/5/2015					<10.2				
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	3/30/2020					<10.4				
O-Toluidine	7440-66-6	ug/L	4/14/2009				<10	<10				
O-Toluidine	7440-66-6	ug/L	5/10/2010				<10	<10				
O-Toluidine	7440-66-6	ug/L	12/7/2010						<10			
O-Toluidine	7440-66-6	ug/L	10/5/2015					<10.2				
O-Toluidine	7440-66-6	ug/L	3/30/2020					<10.4				
Parathion-Ethyl	7440-66-6	ug/L	4/14/2009				<10	<10				
Parathion-Ethyl	7440-66-6	ug/L	5/10/2010				<10	<10				
Parathion-Ethyl	7440-66-6	ug/L	12/7/2010						<10			
Parathion-Ethyl	7440-66-6	ug/L	10/5/2015					<10.2				
Parathion-Ethyl	7440-66-6	ug/L	3/30/2020					<10.4				
Parathion-Methyl	7440-66-6	ug/L	4/14/2009				<10	<10				
Parathion-Methyl	7440-66-6	ug/L	5/10/2010				<10	<10				
Parathion-Methyl	7440-66-6	ug/L	12/7/2010						<10			
Parathion-Methyl	7440-66-6	ug/L	10/5/2015					<10.2				
Parathion-Methyl	7440-66-6	ug/L	3/30/2020					<10.4				
PCB-1016	7440-66-6	ug/L	4/14/2009				<0.8	<0.8				
PCB-1016	7440-66-6	ug/L	5/10/2010				<0.8	<0.8				
PCB-1016	7440-66-6	ug/L	12/7/2010						<0.8			
PCB-1016	7440-66-6	ug/L	10/5/2015					<0.825				
PCB-1016	7440-66-6	ug/L	3/30/2020					<0.825				
PCB-1221	7440-66-6	ug/L	4/14/2009				<0.8	<0.8				
PCB-1221	7440-66-6	ug/L	5/10/2010				<0.8	<0.8				
PCB-1221	7440-66-6	ug/L	12/7/2010						<0.8			
PCB-1221	7440-66-6	ug/L	10/5/2015					<0.825				
PCB-1221	7440-66-6	ug/L	3/30/2020					<0.825				
PCB-1232	7440-66-6	ug/L	4/14/2009				<0.8	<0.8				
PCB-1232	7440-66-6	ug/L	5/10/2010				<0.8	<0.8				
PCB-1232	7440-66-6	ug/L	12/7/2010						<0.8			
PCB-1232	7440-66-6	ug/L	10/5/2015					<0.825				
PCB-1232	7440-66-6	ug/L	3/30/2020					<0.825				
PCB-1242	7440-66-6	ug/L	4/14/2009				<0.8	<0.8				
PCB-1242	7440-66-6	ug/L	5/10/2010				<0.8	<0.8				
PCB-1242	7440-66-6	ug/L	12/7/2010						<0.8			
PCB-1242	7440-66-6	ug/L	10/5/2015					<0.825				
PCB-1242	7440-66-6	ug/L	3/30/2020					<0.825				
PCB-1248	7440-66-6	ug/L	4/14/2009				<0.8	<0.8				
PCB-1248	7440-66-6	ug/L	5/10/2010				<0.8	<0.8				
PCB-1248	7440-66-6	ug/L	12/7/2010						<0.8			
PCB-1248	7440-66-6	ug/L	10/5/2015					<0.825				
PCB-1248	7440-66-6	ug/L	3/30/2020					<0.825				
PCB-1254	7440-66-6	ug/L	4/14/2009				<0.8	<0.8				
PCB-1254	7440-66-6	ug/L	5/10/2010				<0.8	<0.8				
PCB-1254	7440-66-6	ug/L	12/7/2010						<0.8			
PCB-1254	7440-66-6	ug/L	10/5/2015					<0.825				
PCB-1254	7440-66-6	ug/L	3/30/2020					<0.825				

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				D	D	D	D	D	D	D	D	D
PCB-1260	7440-66-6	ug/L	4/14/2009				<0.8	<0.8				
PCB-1260	7440-66-6	ug/L	5/10/2010				<0.8	<0.8				
PCB-1260	7440-66-6	ug/L	12/7/2010						<0.8			
PCB-1260	7440-66-6	ug/L	10/5/2015					<0.825				
PCB-1260	7440-66-6	ug/L	3/30/2020					<0.825				
p-Chloroaniline	7440-66-6	ug/L	4/14/2009				<10	<10				
p-Chloroaniline	7440-66-6	ug/L	5/10/2010				<10	<10				
p-Chloroaniline	7440-66-6	ug/L	12/7/2010						<10			
p-Chloroaniline	7440-66-6	ug/L	10/5/2015					<10.2				
p-Chloroaniline	7440-66-6	ug/L	3/30/2020					<10.4				
Pentachlorobenzene	7440-66-6	ug/L	4/14/2009				<10	<10				
Pentachlorobenzene	7440-66-6	ug/L	5/10/2010				<10	<10				
Pentachlorobenzene	7440-66-6	ug/L	12/7/2010						<10			
Pentachlorobenzene	7440-66-6	ug/L	10/5/2015					<10.2				
Pentachlorobenzene	7440-66-6	ug/L	3/30/2020					<10.4				
Pentachloronitrobenzene	7440-66-6	ug/L	4/14/2009				<10	<10				
Pentachloronitrobenzene	7440-66-6	ug/L	5/10/2010				<10	<10				
Pentachloronitrobenzene	7440-66-6	ug/L	12/7/2010						<10			
Pentachloronitrobenzene	7440-66-6	ug/L	10/5/2015					<10.2				
Pentachloronitrobenzene	7440-66-6	ug/L	3/30/2020					<10.4				
Pentachlorophenol [2C]	7440-66-6	ug/L	4/14/2009				<10	<10				
Pentachlorophenol [2C]	7440-66-6	ug/L	5/10/2010				<10	<10				
Pentachlorophenol [2C]	7440-66-6	ug/L	12/7/2010						<10			
Pentachlorophenol [2C]	7440-66-6	ug/L	10/5/2015					<10.2				
Pentachlorophenol [2C]	7440-66-6	ug/L	3/30/2020					<10.4				
Phenacetin	7440-66-6	ug/L	4/14/2009				<10	<10				
Phenacetin	7440-66-6	ug/L	5/10/2010				<10	<10				
Phenacetin	7440-66-6	ug/L	12/7/2010						<10			
Phenacetin	7440-66-6	ug/L	10/5/2015					<10.2				
Phenacetin	7440-66-6	ug/L	3/30/2020					<10.4				
Phenanthrene	7440-66-6	ug/L	4/14/2009				<10	<10				
Phenanthrene	7440-66-6	ug/L	5/10/2010				<10	<10				
Phenanthrene	7440-66-6	ug/L	12/7/2010						<10			
Phenanthrene	7440-66-6	ug/L	10/5/2015					<10.2				
Phenanthrene	7440-66-6	ug/L	3/30/2020					<10.4				
Phenol	7440-66-6	ug/L	4/14/2009				<20	<20				
Phenol	7440-66-6	ug/L	5/10/2010				<10	<10				
Phenol	7440-66-6	ug/L	12/7/2010						<10			
Phenol	7440-66-6	ug/L	10/5/2015					<10.2				
Phenol	7440-66-6	ug/L	3/30/2020					<10.4				
Phorate	7440-66-6	ug/L	4/14/2009				<60	<60				
Phorate	7440-66-6	ug/L	5/10/2010				<10	<10				
Phorate	7440-66-6	ug/L	12/7/2010						<10			
Phorate	7440-66-6	ug/L	10/5/2015					<10.2				
Phorate	7440-66-6	ug/L	3/30/2020					<10.4				
Potassium	7440-66-6	mg/L	6/2/2014				1.19	<1	<1			
Potassium	7440-66-6	mg/L	10/15/2014				1.13	<1	<1			
Potassium	7440-66-6	mg/L	4/16/2019									1.37
Potassium	7440-66-6	mg/L	10/1/2019									1.19
Pronamide	7440-66-6	ug/L	4/14/2009				<10	<10				
Pronamide	7440-66-6	ug/L	5/10/2010				<10	<10				
Pronamide	7440-66-6	ug/L	12/7/2010						<10			
Pronamide	7440-66-6	ug/L	10/5/2015					<10.2				
Pronamide	7440-66-6	ug/L	3/30/2020					<10.4				
Propionitrile	7440-66-6	ug/L	4/14/2009				<10	<10				
Propionitrile	7440-66-6	ug/L	5/10/2010				<10	<10				
Propionitrile	7440-66-6	ug/L	12/7/2010						<10			

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				D	D	D	D	D	D	D	D	D
Propionitrile	7440-66-6	ug/L	10/5/2015					<10				
Propionitrile	7440-66-6	ug/L	3/30/2020					<100				
Pyrene	7440-66-6	ug/L	4/14/2009					<10				
Pyrene	7440-66-6	ug/L	5/10/2010				<10	<10				
Pyrene	7440-66-6	ug/L	12/7/2010						<10			
Pyrene	7440-66-6	ug/L	10/5/2015					<10.2				
Pyrene	7440-66-6	ug/L	3/30/2020					<10.4				
Safrole	7440-66-6	ug/L	4/14/2009				<10	<10				
Safrole	7440-66-6	ug/L	5/10/2010				<10	<10				
Safrole	7440-66-6	ug/L	12/7/2010						<10			
Safrole	7440-66-6	ug/L	10/5/2015					<10.2				
Safrole	7440-66-6	ug/L	3/30/2020					<10.4				
Selenium	7440-66-6	mg/L	2/27/2008				<0.01	<0.01				
Selenium	7440-66-6	mg/L	5/12/2008				<0.01	<0.01				
Selenium	7440-66-6	mg/L	7/13/2008				<0.01	<0.01				
Selenium	7440-66-6	mg/L	9/14/2008				<0.01	<0.01				
Selenium	7440-66-6	mg/L	11/17/2008				<0.005	<0.005				
Selenium	7440-66-6	mg/L	4/14/2009				<0.01	<0.01				
Selenium	7440-66-6	mg/L	10/25/2009				<0.01	<0.01				
Selenium	7440-66-6	mg/L	5/10/2010				0.0058	<0.002				
Selenium	7440-66-6	mg/L	12/7/2010						<0.005			
Selenium	7440-66-6	mg/L	4/4/2011						<0.01			
Selenium	7440-66-6	mg/L	10/13/2011				<0.005	<0.005	<0.005			
Selenium	7440-66-6	mg/L	4/11/2012				<0.005	<0.005	<0.005			
Selenium	7440-66-6	mg/L	10/11/2012				<0.005	<0.005	<0.005			
Selenium	7440-66-6	mg/L	3/30/2013				<0.005	<0.005	<0.005			
Selenium	7440-66-6	mg/L	10/7/2013				<0.005	<0.005	<0.005			
Selenium	7440-66-6	mg/L	6/2/2014				<0.005	0.00165J	<0.005			
Selenium	7440-66-6	mg/L	10/15/2014				<0.005	<0.005	<0.005			
Selenium	7440-66-6	mg/L	4/6/2015					<0.005				
Selenium	7440-66-6	mg/L	10/5/2015					<0.005				
Selenium	7440-66-6	mg/L	4/4/2016					<0.005				
Selenium	7440-66-6	mg/L	10/17/2016					<0.005				
Selenium	7440-66-6	mg/L	4/17/2017					<0.005				
Selenium	7440-66-6	mg/L	10/11/2017					<0.005				
Selenium	7440-66-6	mg/L	4/20/2018					<0.005				
Selenium	7440-66-6	mg/L	10/16/2018					<0.0025				
Selenium	7440-66-6	mg/L	4/16/2019					<0.005				
Selenium	7440-66-6	mg/L	10/1/2019					<0.005				
Selenium	7440-66-6	mg/L	3/30/2020					<0.005				
Selenium	7440-66-6	mg/L	10/7/2020					0.00118J				
Selenium	7440-66-6	mg/L	4/13/2021					<0.004				
Silver	7440-66-6	mg/L	2/27/2008				<0.01	<0.01				
Silver	7440-66-6	mg/L	5/12/2008				<0.01	<0.01				
Silver	7440-66-6	mg/L	7/13/2008				<0.01	<0.01				
Silver	7440-66-6	mg/L	9/14/2008				<0.01	<0.01				
Silver	7440-66-6	mg/L	11/17/2008				<0.02	<0.02				
Silver	7440-66-6	mg/L	4/14/2009				<0.01	<0.01				
Silver	7440-66-6	mg/L	10/25/2009				<0.025	<0.025				
Silver	7440-66-6	mg/L	5/10/2010				<0.02	<0.02				
Silver	7440-66-6	mg/L	12/7/2010						<0.02			
Silver	7440-66-6	mg/L	4/4/2011						<0.025			
Silver	7440-66-6	mg/L	10/13/2011				<0.02	<0.02	<0.02			
Silver	7440-66-6	mg/L	4/11/2012				<0.02	<0.02	<0.02			
Silver	7440-66-6	mg/L	10/11/2012				<0.02	<0.02	<0.02			
Silver	7440-66-6	mg/L	3/30/2013				<0.02	<0.02	<0.02			
Silver	7440-66-6	mg/L	10/7/2013				<0.02	<0.02	<0.02			

Table 9A
Analytical Data Summary - CAMP Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Silver	7440-66-6	mg/L	6/2/2014				<0.02	<0.02	<0.02			
Silver	7440-66-6	mg/L	10/15/2014				<0.02	<0.02	<0.02			
Silver	7440-66-6	mg/L	4/6/2015					<0.001				
Silver	7440-66-6	mg/L	10/5/2015					0.000149J				
Silver	7440-66-6	mg/L	4/4/2016					<0.001				
Silver	7440-66-6	mg/L	10/17/2016					<0.001				
Silver	7440-66-6	mg/L	4/17/2017					<0.001				
Silver	7440-66-6	mg/L	10/11/2017					0.000221J				
Silver	7440-66-6	mg/L	4/20/2018					<0.001				
Silver	7440-66-6	mg/L	10/16/2018					<0.0005				
Silver	7440-66-6	mg/L	4/16/2019					<0.001				
Silver	7440-66-6	mg/L	10/1/2019					<0.001				
Silver	7440-66-6	mg/L	3/30/2020					<0.001				
Silver	7440-66-6	mg/L	10/7/2020					<0.001				
Silver	7440-66-6	mg/L	4/13/2021					<0.004				
Sodium	7440-66-6	mg/L	6/2/2014				39.1	25.4	7.51			
Sodium	7440-66-6	mg/L	10/15/2014				38.7	22.6	8.16			
Sodium	7440-66-6	mg/L	4/16/2019									19.7
Sodium	7440-66-6	mg/L	10/1/2019									21.6
Styrene	7440-66-6	ug/L	2/27/2008				<1	<1				
Styrene	7440-66-6	ug/L	5/12/2008				<1	<1				
Styrene	7440-66-6	ug/L	7/13/2008				<1	<1				
Styrene	7440-66-6	ug/L	9/14/2008				<1	<1				
Styrene	7440-66-6	ug/L	11/17/2008				<1	<1				
Styrene	7440-66-6	ug/L	4/14/2009				<1	<1				
Styrene	7440-66-6	ug/L	10/25/2009				<2	<2				
Styrene	7440-66-6	ug/L	5/10/2010				<4	<4				
Styrene	7440-66-6	ug/L	11/1/2010				<1	<1				
Styrene	7440-66-6	ug/L	12/7/2010						<2			
Styrene	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
Styrene	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
Styrene	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
Styrene	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
Styrene	7440-66-6	ug/L	10/7/2013				<1	<1				
Styrene	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
Styrene	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
Styrene	7440-66-6	ug/L	4/6/2015					<1				
Styrene	7440-66-6	ug/L	10/5/2015					<1				
Styrene	7440-66-6	ug/L	4/4/2016					<1				
Styrene	7440-66-6	ug/L	10/17/2016					<1				
Styrene	7440-66-6	ug/L	4/17/2017					<1				
Styrene	7440-66-6	ug/L	10/11/2017					<1				
Styrene	7440-66-6	ug/L	4/20/2018					<1				
Styrene	7440-66-6	ug/L	10/16/2018					<1				
Styrene	7440-66-6	ug/L	4/16/2019					<1				
Styrene	7440-66-6	ug/L	10/1/2019					<1				
Styrene	7440-66-6	ug/L	3/30/2020					<10				
Styrene	7440-66-6	ug/L	10/7/2020					<1				
Styrene	7440-66-6	ug/L	4/13/2021					<1				
Sulfate	7440-66-6	mg/L	6/2/2014				102	50.9	16.9			
Sulfate	7440-66-6	mg/L	10/15/2014				111	45.4	16.4			
Sulfate	7440-66-6	mg/L	4/6/2015				113	38	16.9			
Sulfate	7440-66-6	mg/L	10/5/2015				113	31.3	15.7			
Sulfate	7440-66-6	mg/L	4/4/2016				115	30.7	15.3			
Sulfate	7440-66-6	mg/L	10/17/2016				116	31.4	14.4			
Sulfate	7440-66-6	mg/L	4/16/2019									24
Sulfate	7440-66-6	mg/L	10/1/2019									31.6

Table 9A
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Sulfate	7440-66-6	mg/L	10/14/2022					30				
Sulfide	7440-66-6	mg/L	5/10/2010				<1	<1				
Sulfide	7440-66-6	mg/L	12/7/2010						<1			
Sulfide	7440-66-6	mg/L	10/5/2015					<1				
Sulfide	7440-66-6	mg/L	3/30/2020					<1	<1		2.34	
Sulfide	7440-66-6	mg/L	10/7/2020						<10		<10	
Sulfide	7440-66-6	mg/L	4/13/2021						<0.1		<0.1	
Sulfide	7440-66-6	mg/L	10/20/2021					<0.1			<0.1	
Sulfide	7440-66-6	mg/L	5/2/2022					0.15			<0.1	
Sulfide	7440-66-6	mg/L	10/14/2022					<0.1			0.029J	
Sulfide	7440-66-6	mg/L	5/1/2023					<1			<1	
Sulfide	7440-66-6	mg/L	10/16/2023					<1			<1	
Sulfide	7440-66-6	mg/L	4/29/2024					<1			<1	
Sulfide	7440-66-6	mg/L	10/9/2024					<1.00				
Sulfide	7440-66-6	mg/L	10/14/2024								<1.00	
Tetrachloroethene	7440-66-6	ug/L	2/27/2008				<1	4.93				
Tetrachloroethene	7440-66-6	ug/L	5/12/2008				<1	6.02				
Tetrachloroethene	7440-66-6	ug/L	7/13/2008				<1	6.15				
Tetrachloroethene	7440-66-6	ug/L	9/14/2008				<1	7.06				
Tetrachloroethene	7440-66-6	ug/L	11/17/2008				<1	6.25				
Tetrachloroethene	7440-66-6	ug/L	4/14/2009				<1	9.28				
Tetrachloroethene	7440-66-6	ug/L	7/7/2009					9.38				
Tetrachloroethene	7440-66-6	ug/L	9/2/2009					12.8				
Tetrachloroethene	7440-66-6	ug/L	10/25/2009				<1	13.3				
Tetrachloroethene	7440-66-6	ug/L	1/2/2010					9.64				
Tetrachloroethene	7440-66-6	ug/L	5/10/2010				<1	19.1				
Tetrachloroethene	7440-66-6	ug/L	11/1/2010				<1	23.9				
Tetrachloroethene	7440-66-6	ug/L	12/7/2010						<1			
Tetrachloroethene	7440-66-6	ug/L	4/4/2011					26.4				
Tetrachloroethene	7440-66-6	ug/L	10/13/2011				<1	25.4	<1			
Tetrachloroethene	7440-66-6	ug/L	4/11/2012				<1	28.2	<1			
Tetrachloroethene	7440-66-6	ug/L	10/11/2012				<1	26.3	<1			
Tetrachloroethene	7440-66-6	ug/L	3/30/2013				<1	28.1	<1			
Tetrachloroethene	7440-66-6	ug/L	10/7/2013				<1	26				
Tetrachloroethene	7440-66-6	ug/L	6/2/2014				<1	35.1	<1			
Tetrachloroethene	7440-66-6	ug/L	10/15/2014				<1	44.2	<1			
Tetrachloroethene	7440-66-6	ug/L	4/6/2015					34.1				
Tetrachloroethene	7440-66-6	ug/L	10/5/2015					29.7				
Tetrachloroethene	7440-66-6	ug/L	4/4/2016				<1	28.8				
Tetrachloroethene	7440-66-6	ug/L	10/17/2016				<1	39.5		<1		
Tetrachloroethene	7440-66-6	ug/L	4/17/2017				<1	<1		<1		
Tetrachloroethene	7440-66-6	ug/L	10/11/2017				<1	38.8		<1		
Tetrachloroethene	7440-66-6	ug/L	4/20/2018					42				
Tetrachloroethene	7440-66-6	ug/L	4/23/2018				<1					
Tetrachloroethene	7440-66-6	ug/L	5/1/2018							<1		
Tetrachloroethene	7440-66-6	ug/L	10/16/2018				<1	39.8		<1		
Tetrachloroethene	7440-66-6	ug/L	4/16/2019				<1	45		<1		
Tetrachloroethene	7440-66-6	ug/L	10/1/2019				<1	48.9		<1		
Tetrachloroethene	7440-66-6	ug/L	3/30/2020				<1	42.7		<1		
Tetrachloroethene	7440-66-6	ug/L	10/7/2020				<1	41.2		<1		
Tetrachloroethene	7440-66-6	ug/L	4/13/2021				<1	46		<1		
Tetrachloroethene	7440-66-6	ug/L	10/20/2021					34.6		<1		
Tetrachloroethene	7440-66-6	ug/L	5/2/2022					40.6		<1		
Tetrachloroethene	7440-66-6	ug/L	10/14/2022					26.9		<1		
Tetrachloroethene	7440-66-6	ug/L	5/1/2023					29.6		<1		
Tetrachloroethene	7440-66-6	ug/L	10/16/2023					29.3		<1		
Tetrachloroethene	7440-66-6	ug/L	4/29/2024					28.9		<1		

Table 9A
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Tetrachloroethene	7440-66-6	ug/L	10/9/2024					24.6				
Tetrachloroethene	7440-66-6	ug/L	10/14/2024							<1.00		
Thallium	7440-66-6	mg/L	2/27/2008				<0.002	<0.002				
Thallium	7440-66-6	mg/L	5/12/2008				<0.002	<0.002				
Thallium	7440-66-6	mg/L	7/13/2008				<0.002	<0.002				
Thallium	7440-66-6	mg/L	9/14/2008				<0.002	<0.002				
Thallium	7440-66-6	mg/L	11/17/2008				<0.002	<0.002				
Thallium	7440-66-6	mg/L	4/14/2009				<0.002	<0.002				
Thallium	7440-66-6	mg/L	10/25/2009				<0.002	<0.002				
Thallium	7440-66-6	mg/L	5/10/2010				<0.0004	<0.0004				
Thallium	7440-66-6	mg/L	11/1/2010				<0.002	<0.002				
Thallium	7440-66-6	mg/L	12/7/2010						<0.002			
Thallium	7440-66-6	mg/L	10/13/2011				<0.002	<0.002	<0.002			
Thallium	7440-66-6	mg/L	4/11/2012				<0.002	<0.002	<0.002			
Thallium	7440-66-6	mg/L	10/11/2012				<0.002	<0.002	<0.002			
Thallium	7440-66-6	mg/L	3/30/2013				<0.002	<0.002	<0.002			
Thallium	7440-66-6	mg/L	10/7/2013				<0.002	<0.002	<0.002			
Thallium	7440-66-6	mg/L	6/2/2014				<0.002	<0.002	<0.002			
Thallium	7440-66-6	mg/L	10/15/2014				<0.002	<0.002	<0.002			
Thallium	7440-66-6	mg/L	4/6/2015					<0.001				
Thallium	7440-66-6	mg/L	10/5/2015					0.000035J				
Thallium	7440-66-6	mg/L	4/4/2016					<0.001				
Thallium	7440-66-6	mg/L	10/17/2016					<0.001				
Thallium	7440-66-6	mg/L	4/17/2017					<0.001				
Thallium	7440-66-6	mg/L	10/11/2017					<0.001				
Thallium	7440-66-6	mg/L	4/20/2018					<0.001				
Thallium	7440-66-6	mg/L	10/16/2018					<0.002				
Thallium	7440-66-6	mg/L	4/16/2019					<0.001				
Thallium	7440-66-6	mg/L	10/1/2019					<0.001				
Thallium	7440-66-6	mg/L	3/30/2020					<0.001				
Thallium	7440-66-6	mg/L	10/7/2020					<0.001				
Thallium	7440-66-6	mg/L	4/13/2021					<0.002				
Thionazin	7440-66-6	ug/L	10/5/2015					<10.2				
Thionazin	7440-66-6	ug/L	3/30/2020					<10.4				
Tin	7440-66-6	mg/L	4/14/2009				0.12	<0.1				
Tin	7440-66-6	mg/L	7/7/2009				<0.1					
Tin	7440-66-6	mg/L	9/2/2009				<0.1					
Tin	7440-66-6	mg/L	10/25/2009				<0.1					
Tin	7440-66-6	mg/L	1/2/2010				<0.1					
Tin	7440-66-6	mg/L	5/10/2010				<0.1	<0.1				
Tin	7440-66-6	mg/L	12/7/2010						<0.1			
Tin	7440-66-6	mg/L	4/11/2012				<0.1					
Tin	7440-66-6	mg/L	10/11/2012				<0.1					
Tin	7440-66-6	mg/L	3/30/2013				<0.1					
Tin	7440-66-6	mg/L	6/2/2014				<0.1					
Tin	7440-66-6	mg/L	10/15/2014				0.132					
Tin	7440-66-6	mg/L	10/5/2015					<0.005				
Tin	7440-66-6	mg/L	3/30/2020					<0.005				
Toluene	7440-66-6	ug/L	2/27/2008				<1	<1				
Toluene	7440-66-6	ug/L	5/12/2008				<1	<1				
Toluene	7440-66-6	ug/L	7/13/2008				<1	<1				
Toluene	7440-66-6	ug/L	9/14/2008				<1	<1				
Toluene	7440-66-6	ug/L	11/17/2008				<1	<1				
Toluene	7440-66-6	ug/L	4/14/2009				<1	<1				
Toluene	7440-66-6	ug/L	10/25/2009				<1	<1				
Toluene	7440-66-6	ug/L	5/10/2010				<1	<1				
Toluene	7440-66-6	ug/L	11/1/2010				<1	<1				

Table 9A
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Toluene	7440-66-6	ug/L	12/7/2010						<1			
Toluene	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
Toluene	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
Toluene	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
Toluene	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
Toluene	7440-66-6	ug/L	10/7/2013				<1	<1				
Toluene	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
Toluene	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
Toluene	7440-66-6	ug/L	4/6/2015					<1				
Toluene	7440-66-6	ug/L	10/5/2015					<1				
Toluene	7440-66-6	ug/L	4/4/2016					<1				
Toluene	7440-66-6	ug/L	10/17/2016					<1				
Toluene	7440-66-6	ug/L	4/17/2017					<1				
Toluene	7440-66-6	ug/L	10/11/2017					<1				
Toluene	7440-66-6	ug/L	4/20/2018					<1				
Toluene	7440-66-6	ug/L	10/16/2018					<1				
Toluene	7440-66-6	ug/L	4/16/2019					<1				
Toluene	7440-66-6	ug/L	10/1/2019					<1				
Toluene	7440-66-6	ug/L	3/30/2020					<10				
Toluene	7440-66-6	ug/L	10/7/2020					<1				
Toluene	7440-66-6	ug/L	4/13/2021					<1				
Total Organic Carbon	7440-66-6	mg/L	4/6/2015				9.52	1.89	0.54J			
Total Organic Carbon	7440-66-6	mg/L	10/5/2015				8.54	1.64	<1			
Total Organic Carbon	7440-66-6	mg/L	4/4/2016				8.04	2.05	<1			
Total Organic Carbon	7440-66-6	mg/L	10/17/2016				4.04	1.88	<1			
Total Suspended Solids	7440-66-6	mg/L	6/2/2014			208	9.5	<5	4.67J			
Total Suspended Solids	7440-66-6	mg/L	10/15/2014			199	9.83	<1.88	76.8			
Total Suspended Solids	7440-66-6	mg/L	4/6/2015				12.8	<2.5	3.33			
Total Suspended Solids	7440-66-6	mg/L	10/5/2015				6	1.88	147			
Total Suspended Solids	7440-66-6	mg/L	4/4/2016				5.88	19.1	2			
Total Suspended Solids	7440-66-6	mg/L	10/11/2016					11.6				
Total Suspended Solids	7440-66-6	mg/L	10/17/2016				7.88	2.75	1.88	1.13J	9.67	
Total Suspended Solids	7440-66-6	mg/L	11/14/2016					5.5				
Total Suspended Solids	7440-66-6	mg/L	4/17/2017				19	10.4	1.88	1.13J	15.4	
Total Suspended Solids	7440-66-6	mg/L	10/11/2017	35.7	21.7	19.5	18	5.25	2.75	1J	11.5	
Total Suspended Solids	7440-66-6	mg/L	4/20/2018					3.38				
Total Suspended Solids	7440-66-6	mg/L	4/23/2018				25.5					
Total Suspended Solids	7440-66-6	mg/L	4/24/2018			1.38J			1.25J			
Total Suspended Solids	7440-66-6	mg/L	4/30/2018	4.38	13.9						37	
Total Suspended Solids	7440-66-6	mg/L	5/1/2018							4.33J		
Total Suspended Solids	7440-66-6	mg/L	10/16/2018	1.5J	11	7.25	19	2.5	2.38	2.88	20.7	68
Total Suspended Solids	7440-66-6	mg/L	4/16/2019	2.63	26.5	2.63	12	3.5	0.875J	1.5J	21.3	56
Total Suspended Solids	7440-66-6	mg/L	10/1/2019	0.75J	13.7	4	11.3	6.62	1.63J	1.25J	27.5	34.5
Total Suspended Solids	7440-66-6	mg/L	3/30/2020	2.5	13.5	5.25	18	7.62	8.13	1.13J	20J	42
Total Suspended Solids	7440-66-6	mg/L	10/7/2020	7.38	18.8	2.5	11.4	5.67	127	<1.88	17.3	42
Total Suspended Solids	7440-66-6	mg/L	4/13/2021	<2	10	2	6	18	3	<2	18	51
Total Suspended Solids	7440-66-6	mg/L	10/20/2021	34	17	6	26	17	0.9J		13	56
Total Suspended Solids	7440-66-6	mg/L	5/2/2022	9	25	2	12	10	<2		12	72
Total Suspended Solids	7440-66-6	mg/L	10/14/2022	<2	10	7	12	5	<2		6	56
Total Suspended Solids	7440-66-6	mg/L	5/1/2023	8.88	13.3	2.5	17.8	5.88	<1.88		3.13	53
Total Suspended Solids	7440-66-6	mg/L	10/16/2023	5.25	10	5.25	14.5	2.5	1.13J		7.75	76
Total Suspended Solids	7440-66-6	mg/L	4/29/2024	7.13	14.3	4.38	8.37	2.13	3.75		<1.88	76
Total Suspended Solids	7440-66-6	mg/L	10/10/2024						2.38			48
Total Suspended Solids	7440-66-6	mg/L	10/9/2024			19.5	39.8	4				
Total Suspended Solids	7440-66-6	mg/L	10/15/2024		10.7							
Total Suspended Solids	7440-66-6	mg/L	10/14/2024	2.5							9.25	
Toxaphene	7440-66-6	ug/L	4/14/2009				<2	<2				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Toxaphene	7440-66-6	ug/L	5/10/2010				<2	<2				
Toxaphene	7440-66-6	ug/L	12/7/2010						<2			
Toxaphene	7440-66-6	ug/L	10/5/2015					<2.08				
Toxaphene	7440-66-6	ug/L	3/30/2020					<2.06				
trans-1,2-Dichloroethene	7440-66-6	ug/L	2/27/2008				<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/12/2008				<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/13/2008				<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	9/14/2008				<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	11/17/2008				<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/14/2009				<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/25/2009				<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/10/2010				<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	11/1/2010				<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	12/7/2010						<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/13/2011				<1	<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2013				<1	<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2013				<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	6/2/2014				<1	<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/15/2014				<1	<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/6/2015					<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/5/2015					0.343J				
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2016					0.633J				
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/17/2016					1.1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/17/2017					<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2017					0.841J				
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/20/2018					0.894J				
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2018					0.769J				
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/16/2019					1.25				
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/1/2019					1.99				
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2020					<10				
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2020					1.98				
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/13/2021					1.6				
trans-1,3-Dichloropropene	7440-66-6	ug/L	2/27/2008				<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/12/2008				<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	7/13/2008				<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	9/14/2008				<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	11/17/2008				<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/14/2009				<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/25/2009				<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/10/2010				<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	11/1/2010				<10	<10				
trans-1,3-Dichloropropene	7440-66-6	ug/L	12/7/2010						<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/13/2011				<5	<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/11/2012				<5	<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2012				<5	<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2013				<5	<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2013				<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	6/2/2014				<5	<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/15/2014				<5	<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/6/2015					<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/5/2015					<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2016					<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/17/2016					<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/17/2017					<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2017					<5				

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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/20/2018					<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2018					<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/16/2019					<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/1/2019					<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2020					<50				
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2020					<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/13/2021					<1				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	2/27/2008				<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/12/2008				<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	7/13/2008				<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	9/14/2008				<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	11/17/2008				<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/14/2009				<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/25/2009				<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/10/2010				<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	11/1/2010				<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	12/7/2010						<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/13/2011				<10	<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/11/2012				<10	<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/11/2012				<10	<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/30/2013				<10	<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/7/2013				<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	6/2/2014				<10	<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/15/2014				<10	<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/6/2015				<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/5/2015				<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/4/2016				<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/17/2016				<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/17/2017				<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/11/2017				<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/20/2018				<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/16/2018				<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/16/2019				<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/1/2019				<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/30/2020				<100					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/7/2020				<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/13/2021				<5					
Trichloroethene	7440-66-6	ug/L	2/27/2008				<1	2.58				
Trichloroethene	7440-66-6	ug/L	5/12/2008				<1	3.52				
Trichloroethene	7440-66-6	ug/L	7/13/2008				<1	3.08				
Trichloroethene	7440-66-6	ug/L	9/14/2008				<1	3.75				
Trichloroethene	7440-66-6	ug/L	11/17/2008				<1	3.36				
Trichloroethene	7440-66-6	ug/L	4/14/2009				<1	4.79				
Trichloroethene	7440-66-6	ug/L	7/7/2009					4.55				
Trichloroethene	7440-66-6	ug/L	9/2/2009					5.64				
Trichloroethene	7440-66-6	ug/L	10/25/2009				<1	6.3				
Trichloroethene	7440-66-6	ug/L	1/2/2010					7.24				
Trichloroethene	7440-66-6	ug/L	5/10/2010				<1	8.59				
Trichloroethene	7440-66-6	ug/L	11/1/2010				<1	11.6				
Trichloroethene	7440-66-6	ug/L	12/7/2010						<1			
Trichloroethene	7440-66-6	ug/L	4/4/2011					12.4				
Trichloroethene	7440-66-6	ug/L	10/13/2011				<1	12.3	<1			
Trichloroethene	7440-66-6	ug/L	4/11/2012				<1	13.5	<1			
Trichloroethene	7440-66-6	ug/L	10/11/2012				<1	11.4	<1			
Trichloroethene	7440-66-6	ug/L	3/30/2013				<1	15.1	<1			
Trichloroethene	7440-66-6	ug/L	10/7/2013				<1	14				
Trichloroethene	7440-66-6	ug/L	6/2/2014				<1	21.3	<1			

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				D	D	D	D	D	D	D	D	D
Trichloroethene	7440-66-6	ug/L	10/15/2014				<1	25	<1			
Trichloroethene	7440-66-6	ug/L	4/6/2015					21				
Trichloroethene	7440-66-6	ug/L	10/5/2015					21.1				
Trichloroethene	7440-66-6	ug/L	4/4/2016				<1	19.5				
Trichloroethene	7440-66-6	ug/L	10/17/2016				<1	27.8		<1		
Trichloroethene	7440-66-6	ug/L	4/17/2017				<1	<1		<1		
Trichloroethene	7440-66-6	ug/L	10/11/2017				<1	30.3		<1		
Trichloroethene	7440-66-6	ug/L	4/20/2018					31.6				
Trichloroethene	7440-66-6	ug/L	4/23/2018				<1					
Trichloroethene	7440-66-6	ug/L	5/1/2018							<1		
Trichloroethene	7440-66-6	ug/L	10/16/2018				<1	29.2		<1		
Trichloroethene	7440-66-6	ug/L	4/16/2019				<1	32.4		<1		
Trichloroethene	7440-66-6	ug/L	10/1/2019				<1	36.3		<1		
Trichloroethene	7440-66-6	ug/L	3/30/2020				<1	32.3		<1		
Trichloroethene	7440-66-6	ug/L	10/7/2020				<1	35.1		<1		
Trichloroethene	7440-66-6	ug/L	4/13/2021				<1	34.7		<1		
Trichloroethene	7440-66-6	ug/L	10/20/2021					27.9		<1		
Trichloroethene	7440-66-6	ug/L	5/2/2022					37.7		<1		
Trichloroethene	7440-66-6	ug/L	10/14/2022					38.9		<1		
Trichloroethene	7440-66-6	ug/L	5/1/2023					34.3		<1		
Trichloroethene	7440-66-6	ug/L	10/16/2023					36.2		<1		
Trichloroethene	7440-66-6	ug/L	4/29/2024					29.3		<1		
Trichloroethene	7440-66-6	ug/L	10/9/2024					28.9				
Trichloroethene	7440-66-6	ug/L	10/14/2024							<1.00		
Trichlorofluoromethane	7440-66-6	ug/L	2/27/2008				<4	21.3				
Trichlorofluoromethane	7440-66-6	ug/L	5/12/2008				<4	25.1				
Trichlorofluoromethane	7440-66-6	ug/L	7/13/2008				<4	16.1				
Trichlorofluoromethane	7440-66-6	ug/L	9/14/2008				<4	24.4				
Trichlorofluoromethane	7440-66-6	ug/L	11/17/2008				<4	17.8				
Trichlorofluoromethane	7440-66-6	ug/L	4/14/2009				<4	26.7				
Trichlorofluoromethane	7440-66-6	ug/L	7/7/2009					23.6				
Trichlorofluoromethane	7440-66-6	ug/L	9/2/2009					26.1				
Trichlorofluoromethane	7440-66-6	ug/L	10/25/2009				<4	29.9				
Trichlorofluoromethane	7440-66-6	ug/L	1/2/2010					23.5				
Trichlorofluoromethane	7440-66-6	ug/L	5/10/2010				<4	21.3				
Trichlorofluoromethane	7440-66-6	ug/L	11/1/2010				<4	27				
Trichlorofluoromethane	7440-66-6	ug/L	12/7/2010						<4			
Trichlorofluoromethane	7440-66-6	ug/L	4/4/2011					15.6				
Trichlorofluoromethane	7440-66-6	ug/L	10/13/2011				<4	18	<4			
Trichlorofluoromethane	7440-66-6	ug/L	4/11/2012				<4	11.1	<4			
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2012				<4	11	<4			
Trichlorofluoromethane	7440-66-6	ug/L	3/30/2013				<4	11.2	<4			
Trichlorofluoromethane	7440-66-6	ug/L	10/7/2013				<4	9.23				
Trichlorofluoromethane	7440-66-6	ug/L	6/2/2014				<4	10	<4			
Trichlorofluoromethane	7440-66-6	ug/L	10/15/2014				<4	12.3	<4			
Trichlorofluoromethane	7440-66-6	ug/L	4/6/2015					8.4				
Trichlorofluoromethane	7440-66-6	ug/L	10/5/2015					6.56				
Trichlorofluoromethane	7440-66-6	ug/L	4/4/2016					4.47				
Trichlorofluoromethane	7440-66-6	ug/L	10/17/2016					9.95				
Trichlorofluoromethane	7440-66-6	ug/L	4/17/2017					<4				
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2017					1.27J				
Trichlorofluoromethane	7440-66-6	ug/L	4/20/2018					2.83J				
Trichlorofluoromethane	7440-66-6	ug/L	10/16/2018					4.4				
Trichlorofluoromethane	7440-66-6	ug/L	4/16/2019					<4				
Trichlorofluoromethane	7440-66-6	ug/L	10/1/2019					<4				
Trichlorofluoromethane	7440-66-6	ug/L	3/30/2020					<40				
Trichlorofluoromethane	7440-66-6	ug/L	10/7/2020					<4				

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				D	D	D	D	D	D	D	D	D
Trichlorofluoromethane	7440-66-6	ug/L	4/13/2021					2.9				
Vanadium	7440-66-6	mg/L	2/27/2008				0.0591	<0.05				
Vanadium	7440-66-6	mg/L	5/12/2008				<0.05	<0.05				
Vanadium	7440-66-6	mg/L	7/13/2008				<0.05	<0.05				
Vanadium	7440-66-6	mg/L	9/14/2008				<0.05	<0.05				
Vanadium	7440-66-6	mg/L	11/17/2008				<0.05	<0.05				
Vanadium	7440-66-6	mg/L	4/14/2009				<0.05	<0.05				
Vanadium	7440-66-6	mg/L	10/25/2009				<0.05	<0.05				
Vanadium	7440-66-6	mg/L	5/10/2010				<0.05	<0.05				
Vanadium	7440-66-6	mg/L	11/1/2010				<0.05	<0.05				
Vanadium	7440-66-6	mg/L	12/7/2010						<0.05			
Vanadium	7440-66-6	mg/L	10/13/2011				<0.05	<0.05	<0.05			
Vanadium	7440-66-6	mg/L	4/11/2012				<0.05	<0.05	<0.05			
Vanadium	7440-66-6	mg/L	10/11/2012				<0.05	<0.05	<0.05			
Vanadium	7440-66-6	mg/L	3/30/2013				<0.05	<0.05	<0.05			
Vanadium	7440-66-6	mg/L	10/7/2013				<0.05	<0.05	<0.05			
Vanadium	7440-66-6	mg/L	6/2/2014				<0.05	<0.05	<0.05			
Vanadium	7440-66-6	mg/L	10/15/2014				<0.05	<0.05	<0.05			
Vanadium	7440-66-6	mg/L	4/6/2015					<0.005				
Vanadium	7440-66-6	mg/L	10/5/2015					<0.005				
Vanadium	7440-66-6	mg/L	4/4/2016					<0.005				
Vanadium	7440-66-6	mg/L	10/17/2016					0.000673J				
Vanadium	7440-66-6	mg/L	4/17/2017					<0.005				
Vanadium	7440-66-6	mg/L	10/11/2017					<0.005				
Vanadium	7440-66-6	mg/L	4/20/2018					<0.005				
Vanadium	7440-66-6	mg/L	10/16/2018					0.0022J				
Vanadium	7440-66-6	mg/L	4/16/2019					<0.005				
Vanadium	7440-66-6	mg/L	10/1/2019					<0.005				
Vanadium	7440-66-6	mg/L	3/30/2020					<0.005				
Vanadium	7440-66-6	mg/L	10/7/2020					<0.005				
Vanadium	7440-66-6	mg/L	4/13/2021					<0.02				
Vinyl Acetate	7440-66-6	ug/L	2/27/2008				<2	<2				
Vinyl Acetate	7440-66-6	ug/L	5/12/2008				<2.5	<2.5				
Vinyl Acetate	7440-66-6	ug/L	7/13/2008				<2	<2				
Vinyl Acetate	7440-66-6	ug/L	9/14/2008				<2	<2				
Vinyl Acetate	7440-66-6	ug/L	11/17/2008				<2	<2				
Vinyl Acetate	7440-66-6	ug/L	4/14/2009				<2	<2				
Vinyl Acetate	7440-66-6	ug/L	10/25/2009				<2	<2				
Vinyl Acetate	7440-66-6	ug/L	5/10/2010				<2	<2				
Vinyl Acetate	7440-66-6	ug/L	11/1/2010				<2	<2				
Vinyl Acetate	7440-66-6	ug/L	12/7/2010						<2			
Vinyl Acetate	7440-66-6	ug/L	10/13/2011				<2	<50	<10			
Vinyl Acetate	7440-66-6	ug/L	4/11/2012				<2	<20	<2			
Vinyl Acetate	7440-66-6	ug/L	10/11/2012				<10	<2	<10			
Vinyl Acetate	7440-66-6	ug/L	3/30/2013				<2	<2	<2			
Vinyl Acetate	7440-66-6	ug/L	10/7/2013				<2	<2				
Vinyl Acetate	7440-66-6	ug/L	6/2/2014				<2	<2	<2			
Vinyl Acetate	7440-66-6	ug/L	10/15/2014				<10	<10	<10			
Vinyl Acetate	7440-66-6	ug/L	4/6/2015					<10				
Vinyl Acetate	7440-66-6	ug/L	10/5/2015					<10				
Vinyl Acetate	7440-66-6	ug/L	4/4/2016					<10				
Vinyl Acetate	7440-66-6	ug/L	10/17/2016					<10				
Vinyl Acetate	7440-66-6	ug/L	4/17/2017					<10				
Vinyl Acetate	7440-66-6	ug/L	10/11/2017					<10				
Vinyl Acetate	7440-66-6	ug/L	4/20/2018					<10				
Vinyl Acetate	7440-66-6	ug/L	10/16/2018					<10				
Vinyl Acetate	7440-66-6	ug/L	4/16/2019					<10				

Table 9A
Analytical Data Summary - CAMP Wells
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Vinyl Acetate	7440-66-6	ug/L	10/1/2019					<10				
Vinyl Acetate	7440-66-6	ug/L	3/30/2020					<100				
Vinyl Acetate	7440-66-6	ug/L	10/7/2020					<10				
Vinyl Acetate	7440-66-6	ug/L	4/13/2021					<5				
Vinyl Chloride	7440-66-6	ug/L	2/27/2008				<1	3.41				
Vinyl Chloride	7440-66-6	ug/L	5/12/2008				<1	3.71				
Vinyl Chloride	7440-66-6	ug/L	7/13/2008				<1	<1				
Vinyl Chloride	7440-66-6	ug/L	9/14/2008				<1	<1				
Vinyl Chloride	7440-66-6	ug/L	11/17/2008				<1	<1				
Vinyl Chloride	7440-66-6	ug/L	4/14/2009				<1	2.36				
Vinyl Chloride	7440-66-6	ug/L	7/7/2009					<1				
Vinyl Chloride	7440-66-6	ug/L	9/2/2009					<1				
Vinyl Chloride	7440-66-6	ug/L	10/25/2009				<1	1.41				
Vinyl Chloride	7440-66-6	ug/L	1/2/2010					1.22				
Vinyl Chloride	7440-66-6	ug/L	5/10/2010				<1	1.54				
Vinyl Chloride	7440-66-6	ug/L	11/1/2010				<1	3.3				
Vinyl Chloride	7440-66-6	ug/L	12/7/2010						<1			
Vinyl Chloride	7440-66-6	ug/L	4/4/2011					3.17				
Vinyl Chloride	7440-66-6	ug/L	10/13/2011				<1	1.37	<1			
Vinyl Chloride	7440-66-6	ug/L	4/11/2012				<1	<1	<1			
Vinyl Chloride	7440-66-6	ug/L	10/11/2012				<1	<1	<1			
Vinyl Chloride	7440-66-6	ug/L	3/30/2013				<1	1.74	<1			
Vinyl Chloride	7440-66-6	ug/L	10/7/2013				<1	6.56				
Vinyl Chloride	7440-66-6	ug/L	6/2/2014				<1	2.76	<1			
Vinyl Chloride	7440-66-6	ug/L	10/15/2014				<1	5.77	<1			
Vinyl Chloride	7440-66-6	ug/L	4/6/2015					2.85				
Vinyl Chloride	7440-66-6	ug/L	10/5/2015					6.12				
Vinyl Chloride	7440-66-6	ug/L	4/4/2016					10.4				
Vinyl Chloride	7440-66-6	ug/L	10/17/2016					16.8		<1		
Vinyl Chloride	7440-66-6	ug/L	4/17/2017					<1		<1		
Vinyl Chloride	7440-66-6	ug/L	10/11/2017					13.2		<1		
Vinyl Chloride	7440-66-6	ug/L	4/20/2018					12.7				
Vinyl Chloride	7440-66-6	ug/L	5/1/2018							<1		
Vinyl Chloride	7440-66-6	ug/L	10/16/2018					13.7		<1		
Vinyl Chloride	7440-66-6	ug/L	4/16/2019					13.5		<1		
Vinyl Chloride	7440-66-6	ug/L	10/1/2019					20.5		<1		
Vinyl Chloride	7440-66-6	ug/L	3/30/2020					15.4		<1		
Vinyl Chloride	7440-66-6	ug/L	10/7/2020					22.2		<1		
Vinyl Chloride	7440-66-6	ug/L	4/13/2021					22		<1		
Vinyl Chloride	7440-66-6	ug/L	10/20/2021					28.9		<1		
Vinyl Chloride	7440-66-6	ug/L	5/2/2022					32.2		<1		
Vinyl Chloride	7440-66-6	ug/L	10/14/2022					25.2		<1		
Vinyl Chloride	7440-66-6	ug/L	5/1/2023					24.2		<1		
Vinyl Chloride	7440-66-6	ug/L	10/16/2023					28.1		<1		
Vinyl Chloride	7440-66-6	ug/L	4/29/2024					21.8		<1		
Vinyl chloride	7440-66-6	ug/L	10/9/2024					21.5				
Vinyl chloride	7440-66-6	ug/L	10/14/2024							<1.00		
Xylenes, Total	7440-66-6	ug/L	2/27/2008				<3	<3				
Xylenes, Total	7440-66-6	ug/L	5/12/2008				<3	<3				
Xylenes, Total	7440-66-6	ug/L	7/13/2008				<3	<3				
Xylenes, Total	7440-66-6	ug/L	9/14/2008				<3	<3				
Xylenes, Total	7440-66-6	ug/L	11/17/2008				<3	<3				
Xylenes, Total	7440-66-6	ug/L	4/14/2009				<3	<3				
Xylenes, Total	7440-66-6	ug/L	10/25/2009				<4	<6				
Xylenes, Total	7440-66-6	ug/L	5/10/2010				<12	<12				
Xylenes, Total	7440-66-6	ug/L	11/1/2010				<3	<3				
Xylenes, Total	7440-66-6	ug/L	12/7/2010						<3			

Table 9A
Analytical Data Summary - CAMP Wells
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Constituent	CAS	Unit	Date	MW-2C-97	MW-7C	MW-11D	MW-15A	MW-18A-07	MW-306A	MW-404	MW-407	MW-409
				D	D	D	D	D	D	D	D	D
Xylenes, Total	7440-66-6	ug/L	10/13/2011				<3	<3	<3			
Xylenes, Total	7440-66-6	ug/L	4/11/2012				<3	<3	<3			
Xylenes, Total	7440-66-6	ug/L	10/11/2012				<3	<3	<3			
Xylenes, Total	7440-66-6	ug/L	3/30/2013				<3	<3	<3			
Xylenes, Total	7440-66-6	ug/L	10/7/2013				<3	<3				
Xylenes, Total	7440-66-6	ug/L	6/2/2014				<3	<3	<3			
Xylenes, Total	7440-66-6	ug/L	10/15/2014				<3	<3	<3			
Xylenes, Total	7440-66-6	ug/L	4/6/2015					<3				
Xylenes, Total	7440-66-6	ug/L	10/5/2015					<3				
Xylenes, Total	7440-66-6	ug/L	4/4/2016					<3				
Xylenes, Total	7440-66-6	ug/L	10/17/2016					<3				
Xylenes, Total	7440-66-6	ug/L	4/17/2017					<3				
Xylenes, Total	7440-66-6	ug/L	10/11/2017					<3				
Xylenes, Total	7440-66-6	ug/L	4/20/2018					<3				
Xylenes, Total	7440-66-6	ug/L	10/16/2018					<3				
Xylenes, Total	7440-66-6	ug/L	4/16/2019					<3				
Xylenes, Total	7440-66-6	ug/L	10/1/2019					<3				
Xylenes, Total	7440-66-6	ug/L	3/30/2020					<30				
Xylenes, Total	7440-66-6	ug/L	10/7/2020					<3				
Xylenes, Total	7440-66-6	ug/L	4/13/2021					<2				
Zinc	7440-66-6	mg/L	2/27/2008				0.116	<0.1				
Zinc	7440-66-6	mg/L	5/12/2008				0.187	<0.1				
Zinc	7440-66-6	mg/L	7/13/2008				0.15	<0.1				
Zinc	7440-66-6	mg/L	9/14/2008				<0.1	<0.1				
Zinc	7440-66-6	mg/L	11/17/2008				0.102	0.239				
Zinc	7440-66-6	mg/L	4/14/2009				<0.1	<0.1				
Zinc	7440-66-6	mg/L	10/25/2009				<0.1	<0.1				
Zinc	7440-66-6	mg/L	5/10/2010				0.0501	0.0884				
Zinc	7440-66-6	mg/L	12/7/2010						0.0876			
Zinc	7440-66-6	mg/L	1/10/2011						0.0752			
Zinc	7440-66-6	mg/L	4/4/2011						<0.1			
Zinc	7440-66-6	mg/L	10/13/2011				0.0217	<0.02	<0.02			
Zinc	7440-66-6	mg/L	4/11/2012				0.0513	<0.02	0.0693			
Zinc	7440-66-6	mg/L	10/11/2012				<0.02	<0.02	<0.02			
Zinc	7440-66-6	mg/L	3/30/2013				0.0562	0.0504	0.0309			
Zinc	7440-66-6	mg/L	10/7/2013				0.141	0.0979	0.135			
Zinc	7440-66-6	mg/L	6/2/2014				<0.08	<0.08	<0.02			
Zinc	7440-66-6	mg/L	10/15/2014				<0.02	<0.02	<0.02			
Zinc	7440-66-6	mg/L	4/6/2015					0.00883J				
Zinc	7440-66-6	mg/L	10/5/2015					<0.01				
Zinc	7440-66-6	mg/L	4/4/2016					<0.01				
Zinc	7440-66-6	mg/L	10/17/2016					<0.01				
Zinc	7440-66-6	mg/L	4/17/2017					<0.02				
Zinc	7440-66-6	mg/L	10/11/2017					<0.02				
Zinc	7440-66-6	mg/L	4/20/2018					<0.02				
Zinc	7440-66-6	mg/L	10/16/2018					<0.02				
Zinc	7440-66-6	mg/L	4/16/2019					<0.02				
Zinc	7440-66-6	mg/L	10/1/2019					<0.02				
Zinc	7440-66-6	mg/L	3/30/2020					<0.02				
Zinc	7440-66-6	mg/L	10/7/2020					<0.02				
Zinc	7440-66-6	mg/L	4/13/2021					<0.02				

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	2/27/2008	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/12/2008	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	7/13/2008	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	9/14/2008	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	11/17/2008	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/14/2009	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/25/2009	<2					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/10/2010	<4					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	11/1/2010	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	8/11/2011			<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/13/2011	<1		<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	12/5/2011			<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	6/25/2012			<1	<1		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	8/1/2012			<1	<1		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	12/13/2012				<1		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2013				<1		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	6/2/2014	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/15/2014	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/6/2015	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/5/2015	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2016	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/17/2016	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/17/2017	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2017	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/25/2018	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2018	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/16/2019	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/1/2019	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2020	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2020	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/13/2021	<1					
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/14/2024						<1.00
1,1,1-Trichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	4/14/2009	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	10/25/2009	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	5/10/2010	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	11/1/2010	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	8/11/2011			<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	10/13/2011	<1		<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	12/5/2011			<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
1,1,1-Trichloroethane	7440-66-6	ug/L	6/25/2012			<1	<1		

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
1,1,1-Trichloroethane	7440-66-6	ug/L	8/1/2012			<1	<1		
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
1,1,1-Trichloroethane	7440-66-6	ug/L	12/13/2012				<1		
1,1,1-Trichloroethane	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
1,1,1-Trichloroethane	7440-66-6	ug/L	10/7/2013				<1		
1,1,1-Trichloroethane	7440-66-6	ug/L	6/2/2014	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	10/15/2014	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	4/6/2015	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	10/5/2015	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	4/4/2016	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	10/17/2016	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	4/17/2017	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2017	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	4/25/2018	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	10/16/2018	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	4/16/2019	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	10/1/2019	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	3/30/2020	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	10/7/2020	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	4/13/2021	<1					
1,1,1-Trichloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
1,1,1-Trichloroethane	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
1,1,1-Trichloroethane	7440-66-6	ug/L	10/14/2024						<1.00
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	2/27/2008	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/12/2008	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/13/2008	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	9/14/2008	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	11/17/2008	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/14/2009	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/25/2009	<2					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/10/2010	<4					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	11/1/2010	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	8/11/2011			<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/13/2011	<1		<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	12/5/2011			<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	6/25/2012			<1	<1		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	8/1/2012			<1	<1		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	12/13/2012				<1		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2013				<1		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	6/2/2014	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/15/2014	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/6/2015	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/5/2015	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2016	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/17/2016	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/17/2017	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2017	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/25/2018	<1					

Table 9A
Analytical Data Summary - AZPOC Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2018	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/16/2019	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/1/2019	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2020	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2020	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/13/2021	<1					
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/14/2024						<1.00
1,1,2-Trichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/14/2009	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	10/25/2009	<2					
1,1,2-Trichloroethane	7440-66-6	ug/L	5/10/2010	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	11/1/2010	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	8/11/2011			<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	10/13/2011	<1		<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	12/5/2011			<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
1,1,2-Trichloroethane	7440-66-6	ug/L	6/25/2012			<1	<1		
1,1,2-Trichloroethane	7440-66-6	ug/L	8/1/2012			<1	<1		
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
1,1,2-Trichloroethane	7440-66-6	ug/L	12/13/2012			<1	<1		
1,1,2-Trichloroethane	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
1,1,2-Trichloroethane	7440-66-6	ug/L	10/7/2013				<1		
1,1,2-Trichloroethane	7440-66-6	ug/L	6/2/2014	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	10/15/2014	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	4/6/2015	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	10/5/2015	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	4/4/2016	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	10/17/2016	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	4/17/2017	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2017	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	4/25/2018	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	10/16/2018	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	4/16/2019	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	10/1/2019	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	3/30/2020	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	10/7/2020	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	4/13/2021	<1					
1,1,2-Trichloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
1,1,2-Trichloroethane	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		

Table 9A
Analytical Data Summary - AZPOC Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
1,1,2-Trichloroethane	7440-66-6	ug/L	10/14/2024						<1.00
1,1-Dichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1				
1,1-Dichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1				
1,1-Dichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1				
1,1-Dichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1				
1,1-Dichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1				
1,1-Dichloroethane	7440-66-6	ug/L	4/14/2009	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/25/2009	<1					
1,1-Dichloroethane	7440-66-6	ug/L	5/10/2010	<1					
1,1-Dichloroethane	7440-66-6	ug/L	11/1/2010	<1					
1,1-Dichloroethane	7440-66-6	ug/L	8/11/2011			<1			
1,1-Dichloroethane	7440-66-6	ug/L	10/13/2011	<1		<1			
1,1-Dichloroethane	7440-66-6	ug/L	12/5/2011			<1			
1,1-Dichloroethane	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
1,1-Dichloroethane	7440-66-6	ug/L	6/25/2012			<1	<1		
1,1-Dichloroethane	7440-66-6	ug/L	8/1/2012			<1	<1		
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
1,1-Dichloroethane	7440-66-6	ug/L	12/13/2012				<1		
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2013				<1		
1,1-Dichloroethane	7440-66-6	ug/L	6/2/2014	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/15/2014	<1					
1,1-Dichloroethane	7440-66-6	ug/L	4/6/2015	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/5/2015	<1					
1,1-Dichloroethane	7440-66-6	ug/L	4/4/2016	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/17/2016	<1					
1,1-Dichloroethane	7440-66-6	ug/L	4/17/2017	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2017	<1					
1,1-Dichloroethane	7440-66-6	ug/L	4/25/2018	0.234J					
1,1-Dichloroethane	7440-66-6	ug/L	10/16/2018	<1					
1,1-Dichloroethane	7440-66-6	ug/L	4/16/2019	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/1/2019	<1					
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2020	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2020	<1					
1,1-Dichloroethane	7440-66-6	ug/L	4/13/2021	<1					
1,1-Dichloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
1,1-Dichloroethane	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
1,1-Dichloroethane	7440-66-6	ug/L	10/14/2024						<1.00
1,1-Dichloroethene	7440-66-6	ug/L	2/27/2008	<2	<2				
1,1-Dichloroethene	7440-66-6	ug/L	5/12/2008	<2	<2				
1,1-Dichloroethene	7440-66-6	ug/L	7/13/2008	<2	<2				
1,1-Dichloroethene	7440-66-6	ug/L	9/14/2008	<2	<2				
1,1-Dichloroethene	7440-66-6	ug/L	11/17/2008	<2	<2				
1,1-Dichloroethene	7440-66-6	ug/L	4/14/2009	<2					
1,1-Dichloroethene	7440-66-6	ug/L	10/25/2009	<2					
1,1-Dichloroethene	7440-66-6	ug/L	5/10/2010	<10					
1,1-Dichloroethene	7440-66-6	ug/L	11/1/2010	<2					
1,1-Dichloroethene	7440-66-6	ug/L	8/11/2011			<2			
1,1-Dichloroethene	7440-66-6	ug/L	10/13/2011	<2		<2			
1,1-Dichloroethene	7440-66-6	ug/L	12/5/2011			<2			
1,1-Dichloroethene	7440-66-6	ug/L	4/11/2012	<2		<2	<2		

Table 9A
Analytical Data Summary - AZPOC Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
1,1-Dichloroethene	7440-66-6	ug/L	6/25/2012			<2	<2		
1,1-Dichloroethene	7440-66-6	ug/L	8/1/2012			<2	<2		
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2012	<2		<2	<2		
1,1-Dichloroethene	7440-66-6	ug/L	12/13/2012				<2		
1,1-Dichloroethene	7440-66-6	ug/L	3/30/2013	<2		<2	<2		
1,1-Dichloroethene	7440-66-6	ug/L	10/7/2013				<2		
1,1-Dichloroethene	7440-66-6	ug/L	6/2/2014	<2					
1,1-Dichloroethene	7440-66-6	ug/L	10/15/2014	<2					
1,1-Dichloroethene	7440-66-6	ug/L	4/6/2015	<2					
1,1-Dichloroethene	7440-66-6	ug/L	10/5/2015	<2					
1,1-Dichloroethene	7440-66-6	ug/L	4/4/2016	<2					
1,1-Dichloroethene	7440-66-6	ug/L	10/17/2016	<2					
1,1-Dichloroethene	7440-66-6	ug/L	4/17/2017	<2					
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2017	<2					
1,1-Dichloroethene	7440-66-6	ug/L	4/25/2018	<2					
1,1-Dichloroethene	7440-66-6	ug/L	10/16/2018	<2					
1,1-Dichloroethene	7440-66-6	ug/L	4/16/2019	<2					
1,1-Dichloroethene	7440-66-6	ug/L	10/1/2019	<2					
1,1-Dichloroethene	7440-66-6	ug/L	3/30/2020	<2					
1,1-Dichloroethene	7440-66-6	ug/L	10/7/2020	<2					
1,1-Dichloroethene	7440-66-6	ug/L	4/13/2021	<1					
1,1-Dichloroethene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	5/1/2023	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/16/2023	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/29/2024	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/10/2024	<2.00		<2.00		<2.00	
1,1-Dichloroethene	7440-66-6	ug/L	10/9/2024		<2.00		<2.00		
1,1-Dichloroethene	7440-66-6	ug/L	10/14/2024						<2.00
1,1-Dichloropropene	7440-66-6	ug/L	4/14/2009	<1					
1,1-Dichloropropene	7440-66-6	ug/L	5/10/2010	<1					
1,1-Dichloropropene	7440-66-6	ug/L	3/30/2013			<1	<1		
1,1-Dichloropropene	7440-66-6	ug/L	10/5/2015	<1					
1,1-Dichloropropene	7440-66-6	ug/L	3/30/2020	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	2/27/2008	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	5/12/2008	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	7/13/2008	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	9/14/2008	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	11/17/2008	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/14/2009	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	10/25/2009	<2					
1,2,3-Trichloropropane	7440-66-6	ug/L	5/10/2010	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	11/1/2010	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	8/11/2011			<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	10/13/2011	<1		<4			
1,2,3-Trichloropropane	7440-66-6	ug/L	12/5/2011			<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
1,2,3-Trichloropropane	7440-66-6	ug/L	6/25/2012			<1	<1		
1,2,3-Trichloropropane	7440-66-6	ug/L	8/1/2012			<1	<1		
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
1,2,3-Trichloropropane	7440-66-6	ug/L	12/13/2012				<1		
1,2,3-Trichloropropane	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
1,2,3-Trichloropropane	7440-66-6	ug/L	10/7/2013				<1		
1,2,3-Trichloropropane	7440-66-6	ug/L	6/2/2014	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	10/15/2014	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	4/6/2015	<1					

Table 9A
Analytical Data Summary - AZPOC Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
1,2,3-Trichloropropane	7440-66-6	ug/L	10/5/2015	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	4/4/2016	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	10/17/2016	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	4/17/2017	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2017	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	4/25/2018	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	10/16/2018	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	4/16/2019	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	10/1/2019	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	3/30/2020	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	10/7/2020	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	4/13/2021	<1					
1,2,3-Trichloropropane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
1,2,3-Trichloropropane	7440-66-6	ug/L	10/14/2024						<1.00
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	4/14/2009	<10					
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	5/10/2010	<10					
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	3/30/2013		<10	<10			
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	10/5/2015	<10					
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	3/30/2020	<10.4					
1,2,4-Trichlorobenzene	7440-66-6	ug/L	4/14/2009	<5					
1,2,4-Trichlorobenzene	7440-66-6	ug/L	5/10/2010	<5					
1,2,4-Trichlorobenzene	7440-66-6	ug/L	3/30/2013		<5	<5			
1,2,4-Trichlorobenzene	7440-66-6	ug/L	10/5/2015	<5					
1,2,4-Trichlorobenzene	7440-66-6	ug/L	3/30/2020	<5					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	2/27/2008	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/12/2008	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/13/2008	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	9/14/2008	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	11/17/2008	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/14/2009	<10					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/25/2009	<10					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/10/2010	<10					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	11/1/2010	<10					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	8/11/2011		<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/13/2011	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	12/5/2011		<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/11/2012	<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	6/25/2012		<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	8/1/2012		<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2012	<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	12/13/2012			<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/30/2013	<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/7/2013			<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	6/2/2014	<0.12					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/15/2014	<0.12					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/6/2015	<0.5					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/5/2015	<0.5					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/4/2016	<0.5					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/17/2016	<0.5					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/17/2017	<0.5					

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2017	<0.5					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/25/2018	<0.5					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/16/2018	<1.2					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/16/2019	<1.2					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/1/2019	<1.2					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/30/2020	<1.2					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/7/2020	<1.2					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/13/2021	<0.02					
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/20/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/2/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/14/2022	<0.02	<5; <0.02	<0.02; <5	<5; <0.02	<0.02	<0.02
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/1/2023	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/16/2023	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/29/2024	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/10/2024	<1.20		<1.20		<1.20	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/9/2024		<1.20		<1.20		
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/14/2024						<1.20
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	2/27/2008	<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/12/2008	<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	7/13/2008	<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	9/14/2008	<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	11/17/2008	<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/14/2009	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/25/2009	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/10/2010	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	11/1/2010	<10					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	8/11/2011			<10			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/13/2011	<10		<10			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	12/5/2011			<10			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/11/2012	<10		<10	<10		
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	6/25/2012			<10	<10		
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	8/1/2012			<10	<10		
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/11/2012	<10		<10	<10		
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	12/13/2012				<10		
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	3/30/2013	<10		<10	<10		
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/7/2013				<10		
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	6/2/2014	<0.13					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/15/2014	<0.13					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/6/2015	<0.13					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/5/2015	<0.13					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/4/2016	<0.13					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/17/2016	<0.13					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/17/2017	<0.13					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/11/2017	<0.13					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/25/2018	<0.13					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/16/2018	<0.34					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/16/2019	<0.34					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/1/2019	<0.34					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	3/30/2020	<0.34					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/7/2020	<0.34					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/13/2021	<0.02					
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/20/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/2/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/14/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/1/2023	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/16/2023	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/29/2024	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/10/2024	<0.340		<0.340		<0.340	
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/9/2024		<0.340		<0.340		
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/14/2024						<0.340
1,2-Dichlorobenzene	7440-66-6	ug/L	2/27/2008	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	5/12/2008	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	7/13/2008	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	9/14/2008	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	11/17/2008	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	10/25/2009	<2					
1,2-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	11/1/2010	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	8/11/2011			<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	10/13/2011	<1		<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	12/5/2011			<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
1,2-Dichlorobenzene	7440-66-6	ug/L	6/25/2012			<1	<1		
1,2-Dichlorobenzene	7440-66-6	ug/L	8/1/2012			<1	<1		
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
1,2-Dichlorobenzene	7440-66-6	ug/L	12/13/2012				<1		
1,2-Dichlorobenzene	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
1,2-Dichlorobenzene	7440-66-6	ug/L	10/7/2013				<1		
1,2-Dichlorobenzene	7440-66-6	ug/L	6/2/2014	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	10/15/2014	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	4/6/2015	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	10/5/2015	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	4/4/2016	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	10/17/2016	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	4/17/2017	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2017	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	4/25/2018	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	10/16/2018	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	4/16/2019	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	10/1/2019	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	10/7/2020	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	4/13/2021	<1					
1,2-Dichlorobenzene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
1,2-Dichlorobenzene	7440-66-6	ug/L	10/14/2024						<1.00
1,2-Dichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	4/14/2009	<1					
1,2-Dichloroethane	7440-66-6	ug/L	10/25/2009	<2					
1,2-Dichloroethane	7440-66-6	ug/L	5/10/2010	<1					
1,2-Dichloroethane	7440-66-6	ug/L	11/1/2010	<1					
1,2-Dichloroethane	7440-66-6	ug/L	8/11/2011			<1			
1,2-Dichloroethane	7440-66-6	ug/L	10/13/2011	<1		<1			

Table 9A
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
1,2-Dichloroethane	7440-66-6	ug/L	12/5/2011			<1			
1,2-Dichloroethane	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
1,2-Dichloroethane	7440-66-6	ug/L	6/25/2012			<1	<1		
1,2-Dichloroethane	7440-66-6	ug/L	8/1/2012			<1	<1		
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
1,2-Dichloroethane	7440-66-6	ug/L	12/13/2012				<1		
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
1,2-Dichloroethane	7440-66-6	ug/L	10/7/2013				<1		
1,2-Dichloroethane	7440-66-6	ug/L	6/2/2014	<1					
1,2-Dichloroethane	7440-66-6	ug/L	10/15/2014	<1					
1,2-Dichloroethane	7440-66-6	ug/L	4/6/2015	<1					
1,2-Dichloroethane	7440-66-6	ug/L	10/5/2015	<1					
1,2-Dichloroethane	7440-66-6	ug/L	4/4/2016	<1					
1,2-Dichloroethane	7440-66-6	ug/L	10/17/2016	<1					
1,2-Dichloroethane	7440-66-6	ug/L	4/17/2017	<1; 0.196J					
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2017	<1					
1,2-Dichloroethane	7440-66-6	ug/L	4/25/2018	<1					
1,2-Dichloroethane	7440-66-6	ug/L	10/16/2018	<1					
1,2-Dichloroethane	7440-66-6	ug/L	4/16/2019	<1					
1,2-Dichloroethane	7440-66-6	ug/L	10/1/2019	<1					
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2020	<1					
1,2-Dichloroethane	7440-66-6	ug/L	10/7/2020	<1					
1,2-Dichloroethane	7440-66-6	ug/L	4/13/2021	<1					
1,2-Dichloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
1,2-Dichloroethane	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
1,2-Dichloroethane	7440-66-6	ug/L	10/14/2024						<1.00
1,2-Dichloropropane	7440-66-6	ug/L	2/27/2008	<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	5/12/2008	<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	7/13/2008	<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	9/14/2008	<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	11/17/2008	<1	<1				
1,2-Dichloropropane	7440-66-6	ug/L	4/14/2009	<1					
1,2-Dichloropropane	7440-66-6	ug/L	10/25/2009	<1					
1,2-Dichloropropane	7440-66-6	ug/L	5/10/2010	<1					
1,2-Dichloropropane	7440-66-6	ug/L	11/1/2010	<1					
1,2-Dichloropropane	7440-66-6	ug/L	8/11/2011			<1			
1,2-Dichloropropane	7440-66-6	ug/L	10/13/2011	<1		<1			
1,2-Dichloropropane	7440-66-6	ug/L	12/5/2011			<1			
1,2-Dichloropropane	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
1,2-Dichloropropane	7440-66-6	ug/L	6/25/2012			<1	<1		
1,2-Dichloropropane	7440-66-6	ug/L	8/1/2012			<1	<1		
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
1,2-Dichloropropane	7440-66-6	ug/L	12/13/2012				<1		
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
1,2-Dichloropropane	7440-66-6	ug/L	10/7/2013				<1		
1,2-Dichloropropane	7440-66-6	ug/L	6/2/2014	<1					
1,2-Dichloropropane	7440-66-6	ug/L	10/15/2014	<1					
1,2-Dichloropropane	7440-66-6	ug/L	4/6/2015	<1					
1,2-Dichloropropane	7440-66-6	ug/L	10/5/2015	<1					
1,2-Dichloropropane	7440-66-6	ug/L	4/4/2016	<1					
1,2-Dichloropropane	7440-66-6	ug/L	10/17/2016	<1					

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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
1,2-Dichloropropane	7440-66-6	ug/L	4/17/2017	<1					
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2017	<1					
1,2-Dichloropropane	7440-66-6	ug/L	4/25/2018	<1					
1,2-Dichloropropane	7440-66-6	ug/L	10/16/2018	<1					
1,2-Dichloropropane	7440-66-6	ug/L	4/16/2019	<1					
1,2-Dichloropropane	7440-66-6	ug/L	10/1/2019	<1					
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2020	<1					
1,2-Dichloropropane	7440-66-6	ug/L	10/7/2020	<1					
1,2-Dichloropropane	7440-66-6	ug/L	4/13/2021	<1					
1,2-Dichloropropane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
1,2-Dichloropropane	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
1,2-Dichloropropane	7440-66-6	ug/L	10/14/2024						<1.00
1,3,5-Trinitrobenzene	7440-66-6	ug/L	4/14/2009	<10					
1,3,5-Trinitrobenzene	7440-66-6	ug/L	5/10/2010	<10					
1,3,5-Trinitrobenzene	7440-66-6	ug/L	3/30/2013			<10	<10		
1,3,5-Trinitrobenzene	7440-66-6	ug/L	10/5/2015	<10					
1,3,5-Trinitrobenzene	7440-66-6	ug/L	3/30/2020	<10.4					
1,3-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1					
1,3-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1					
1,3-Dichlorobenzene	7440-66-6	ug/L	3/30/2013			<1	<1		
1,3-Dichlorobenzene	7440-66-6	ug/L	10/5/2015	<1					
1,3-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1					
1,3-Dichloropropane	7440-66-6	ug/L	4/14/2009	<1					
1,3-Dichloropropane	7440-66-6	ug/L	5/10/2010	<1					
1,3-Dichloropropane	7440-66-6	ug/L	3/30/2013			<1	<1		
1,3-Dichloropropane	7440-66-6	ug/L	10/5/2015	<1					
1,3-Dichloropropane	7440-66-6	ug/L	3/30/2020	<1					
1,3-Dinitrobenzene	7440-66-6	ug/L	4/14/2009	<10					
1,3-Dinitrobenzene	7440-66-6	ug/L	5/10/2010	<10					
1,3-Dinitrobenzene	7440-66-6	ug/L	3/30/2013			<10	<10		
1,3-Dinitrobenzene	7440-66-6	ug/L	10/5/2015	<10					
1,3-Dinitrobenzene	7440-66-6	ug/L	3/30/2020	<10.4					
1,4-Dichlorobenzene	7440-66-6	ug/L	2/27/2008	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	5/12/2008	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	7/13/2008	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	9/14/2008	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	11/17/2008	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	10/25/2009	<2					
1,4-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<2					
1,4-Dichlorobenzene	7440-66-6	ug/L	11/1/2010	<2					
1,4-Dichlorobenzene	7440-66-6	ug/L	8/11/2011			<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	10/13/2011	<1		<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	12/5/2011			<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
1,4-Dichlorobenzene	7440-66-6	ug/L	6/25/2012			<1	<1		
1,4-Dichlorobenzene	7440-66-6	ug/L	8/1/2012			<1	<1		
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
1,4-Dichlorobenzene	7440-66-6	ug/L	12/13/2012				<1		
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
1,4-Dichlorobenzene	7440-66-6	ug/L	10/7/2013				<1		

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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
1,4-Dichlorobenzene	7440-66-6	ug/L	6/2/2014	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	10/15/2014	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	4/6/2015	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	10/5/2015	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	4/4/2016	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	10/17/2016	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	4/17/2017	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2017	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	4/25/2018	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	10/16/2018	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	4/16/2019	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	10/1/2019	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	10/7/2020	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	4/13/2021	<1					
1,4-Dichlorobenzene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
1,4-Dichlorobenzene	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
1,4-Dichlorobenzene	7440-66-6	ug/L	10/14/2024						<1.00
1,4-Naphthoquinone	7440-66-6	ug/L	4/14/2009	<10					
1,4-Naphthoquinone	7440-66-6	ug/L	5/10/2010	<10					
1,4-Naphthoquinone	7440-66-6	ug/L	3/30/2013			<10	<10		
1,4-Naphthoquinone	7440-66-6	ug/L	10/5/2015	<10					
1,4-Naphthoquinone	7440-66-6	ug/L	3/30/2020	<10.4					
1,4-Phenylenediamine	7440-66-6	ug/L	4/14/2009	<10					
1,4-Phenylenediamine	7440-66-6	ug/L	5/10/2010	<10					
1,4-Phenylenediamine	7440-66-6	ug/L	3/30/2013		<10	<10			
1,4-Phenylenediamine	7440-66-6	ug/L	10/5/2015	<10					
1,4-Phenylenediamine	7440-66-6	ug/L	3/30/2020	<10.4					
1-Naphthylamine	7440-66-6	ug/L	4/14/2009	<10					
1-Naphthylamine	7440-66-6	ug/L	5/10/2010	<10					
1-Naphthylamine	7440-66-6	ug/L	3/30/2013		<10	<10			
1-Naphthylamine	7440-66-6	ug/L	10/5/2015	<10					
1-Naphthylamine	7440-66-6	ug/L	3/30/2020	<10.4					
2,2-Dichloropropane	7440-66-6	ug/L	4/14/2009	<4					
2,2-Dichloropropane	7440-66-6	ug/L	5/10/2010	<4					
2,2-Dichloropropane	7440-66-6	ug/L	3/30/2013			<4	<4		
2,2-Dichloropropane	7440-66-6	ug/L	10/5/2015	<4					
2,2-Dichloropropane	7440-66-6	ug/L	3/30/2020	<4					
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	4/14/2009	<10					
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	5/10/2010	<10					
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	3/30/2013		<10	<10			
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	10/5/2015	<10					
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	3/30/2020	<10.4					
2,4,5-T [2C]	7440-66-6	ug/L	4/14/2009	<0.2					
2,4,5-T [2C]	7440-66-6	ug/L	5/10/2010	<0.51					
2,4,5-T [2C]	7440-66-6	ug/L	3/30/2013		<1	<1			
2,4,5-T [2C]	7440-66-6	ug/L	10/5/2015	<1.01					
2,4,5-T [2C]	7440-66-6	ug/L	3/30/2020	<1.04					
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/14/2009	<0.2					
2,4,5-TP [Silvex]	7440-66-6	ug/L	5/10/2010	<0.51					
2,4,5-TP [Silvex]	7440-66-6	ug/L	3/30/2013		<1	<1			

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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/5/2015	<1.01					
2,4,5-TP [Silvex]	7440-66-6	ug/L	3/30/2020	<1.04					
2,4,5-Trichlorophenol	7440-66-6	ug/L	4/14/2009	<10					
2,4,5-Trichlorophenol	7440-66-6	ug/L	5/10/2010	<10					
2,4,5-Trichlorophenol	7440-66-6	ug/L	3/30/2013			<10	<10		
2,4,5-Trichlorophenol	7440-66-6	ug/L	10/5/2015	<10					
2,4,5-Trichlorophenol	7440-66-6	ug/L	3/30/2020	<10.4					
2,4,6-Trichlorophenol	7440-66-6	ug/L	4/14/2009	<10					
2,4,6-Trichlorophenol	7440-66-6	ug/L	5/10/2010	<10					
2,4,6-Trichlorophenol	7440-66-6	ug/L	3/30/2013			<10	<10		
2,4,6-Trichlorophenol	7440-66-6	ug/L	10/5/2015	<10					
2,4,6-Trichlorophenol	7440-66-6	ug/L	3/30/2020	<10.4					
2,4-D [2C]	7440-66-6	ug/L	4/14/2009	<1					
2,4-D [2C]	7440-66-6	ug/L	5/10/2010	<1					
2,4-D [2C]	7440-66-6	ug/L	3/30/2013			<1	<1		
2,4-D [2C]	7440-66-6	ug/L	10/5/2015	<1.01					
2,4-D [2C]	7440-66-6	ug/L	3/30/2020	<1.04					
2,4-Dichlorophenol	7440-66-6	ug/L	4/14/2009	<10					
2,4-Dichlorophenol	7440-66-6	ug/L	5/10/2010	<10					
2,4-Dichlorophenol	7440-66-6	ug/L	3/30/2013			<10	<10		
2,4-Dichlorophenol	7440-66-6	ug/L	10/5/2015	<10					
2,4-Dichlorophenol	7440-66-6	ug/L	3/30/2020	<10.4					
2,4-Dimethylphenol	7440-66-6	ug/L	4/14/2009	<10					
2,4-Dimethylphenol	7440-66-6	ug/L	5/10/2010	<10					
2,4-Dimethylphenol	7440-66-6	ug/L	3/30/2013			<10	<10		
2,4-Dimethylphenol	7440-66-6	ug/L	10/5/2015	<10					
2,4-Dimethylphenol	7440-66-6	ug/L	3/30/2020	<10.4					
2,4-Dinitrophenol	7440-66-6	ug/L	4/14/2009	<20					
2,4-Dinitrophenol	7440-66-6	ug/L	5/10/2010	<20					
2,4-Dinitrophenol	7440-66-6	ug/L	3/30/2013			<20	<20		
2,4-Dinitrophenol	7440-66-6	ug/L	10/5/2015	<20					
2,4-Dinitrophenol	7440-66-6	ug/L	3/30/2020	<20.8					
2,4-Dinitrotoluene	7440-66-6	ug/L	4/14/2009	<10					
2,4-Dinitrotoluene	7440-66-6	ug/L	5/10/2010	<10					
2,4-Dinitrotoluene	7440-66-6	ug/L	3/30/2013			<10	<10		
2,4-Dinitrotoluene	7440-66-6	ug/L	10/5/2015	<10					
2,4-Dinitrotoluene	7440-66-6	ug/L	3/30/2020	<10.4					
2,6-Dichlorophenol	7440-66-6	ug/L	4/14/2009	<10					
2,6-Dichlorophenol	7440-66-6	ug/L	5/10/2010	<10					
2,6-Dichlorophenol	7440-66-6	ug/L	3/30/2013			<10	<10		
2,6-Dichlorophenol	7440-66-6	ug/L	10/5/2015	<10					
2,6-Dichlorophenol	7440-66-6	ug/L	3/30/2020	<10.4					
2,6-Dinitrotoluene	7440-66-6	ug/L	4/14/2009	<10					
2,6-Dinitrotoluene	7440-66-6	ug/L	5/10/2010	<10					
2,6-Dinitrotoluene	7440-66-6	ug/L	3/30/2013			<10	<10		
2,6-Dinitrotoluene	7440-66-6	ug/L	10/5/2015	<10					
2,6-Dinitrotoluene	7440-66-6	ug/L	3/30/2020	<10.4					
2-Acetylaminofluorene	7440-66-6	ug/L	4/14/2009	<10					
2-Acetylaminofluorene	7440-66-6	ug/L	5/10/2010	<10					
2-Acetylaminofluorene	7440-66-6	ug/L	3/30/2013			<10	<10		
2-Acetylaminofluorene	7440-66-6	ug/L	10/5/2015	<10					
2-Acetylaminofluorene	7440-66-6	ug/L	3/30/2020	<10.4					
2-Butanone (MEK)	7440-66-6	ug/L	2/27/2008	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	5/12/2008	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	7/13/2008	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	9/14/2008	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	11/17/2008	<10	<10				

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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
2-Butanone (MEK)	7440-66-6	ug/L	4/14/2009	<10					
2-Butanone (MEK)	7440-66-6	ug/L	10/25/2009	<10					
2-Butanone (MEK)	7440-66-6	ug/L	5/10/2010	<10					
2-Butanone (MEK)	7440-66-6	ug/L	11/1/2010	<10					
2-Butanone (MEK)	7440-66-6	ug/L	8/1/2011			<10			
2-Butanone (MEK)	7440-66-6	ug/L	10/13/2011	<10		<10			
2-Butanone (MEK)	7440-66-6	ug/L	12/5/2011			<10			
2-Butanone (MEK)	7440-66-6	ug/L	4/1/2012	<10		<10	<10		
2-Butanone (MEK)	7440-66-6	ug/L	6/25/2012			<10	<10		
2-Butanone (MEK)	7440-66-6	ug/L	8/1/2012			<10	<10		
2-Butanone (MEK)	7440-66-6	ug/L	10/11/2012	<10		<10	<10		
2-Butanone (MEK)	7440-66-6	ug/L	12/13/2012				<10		
2-Butanone (MEK)	7440-66-6	ug/L	3/30/2013	<10		<10	<10		
2-Butanone (MEK)	7440-66-6	ug/L	10/7/2013				<10		
2-Butanone (MEK)	7440-66-6	ug/L	6/2/2014	<10					
2-Butanone (MEK)	7440-66-6	ug/L	10/15/2014	<10					
2-Butanone (MEK)	7440-66-6	ug/L	4/6/2015	<10					
2-Butanone (MEK)	7440-66-6	ug/L	10/5/2015	<10					
2-Butanone (MEK)	7440-66-6	ug/L	4/4/2016	<10					
2-Butanone (MEK)	7440-66-6	ug/L	10/17/2016	<10					
2-Butanone (MEK)	7440-66-6	ug/L	4/17/2017	<10					
2-Butanone (MEK)	7440-66-6	ug/L	10/11/2017	<10					
2-Butanone (MEK)	7440-66-6	ug/L	4/25/2018	<10					
2-Butanone (MEK)	7440-66-6	ug/L	10/16/2018	<10					
2-Butanone (MEK)	7440-66-6	ug/L	4/16/2019	<10					
2-Butanone (MEK)	7440-66-6	ug/L	10/1/2019	<10					
2-Butanone (MEK)	7440-66-6	ug/L	3/30/2020	<10					
2-Butanone (MEK)	7440-66-6	ug/L	10/7/2020	<10					
2-Butanone (MEK)	7440-66-6	ug/L	4/13/2021	<5					
2-Butanone (MEK)	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5
2-Butanone (MEK)	7440-66-6	ug/L	5/2/2022	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/14/2022	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/10/2024	<10.0		<10.0		<10.0	
2-Butanone (MEK)	7440-66-6	ug/L	10/9/2024		<10.0		<10.0		
2-Butanone (MEK)	7440-66-6	ug/L	10/14/2024						<10.0
2-Chloronaphthalene	7440-66-6	ug/L	4/14/2009	<10					
2-Chloronaphthalene	7440-66-6	ug/L	5/10/2010	<10					
2-Chloronaphthalene	7440-66-6	ug/L	3/30/2013			<10	<10		
2-Chloronaphthalene	7440-66-6	ug/L	10/5/2015	<10					
2-Chloronaphthalene	7440-66-6	ug/L	3/30/2020	<10.4					
2-Chlorophenol	7440-66-6	ug/L	4/14/2009	<10					
2-Chlorophenol	7440-66-6	ug/L	5/10/2010	<10					
2-Chlorophenol	7440-66-6	ug/L	3/30/2013			<10	<10		
2-Chlorophenol	7440-66-6	ug/L	10/5/2015	<10					
2-Chlorophenol	7440-66-6	ug/L	3/30/2020	<10.4					
2-Hexanone	7440-66-6	ug/L	2/27/2008	<10	<10				
2-Hexanone	7440-66-6	ug/L	5/12/2008	<10	<10				
2-Hexanone	7440-66-6	ug/L	7/13/2008	<10	<10				
2-Hexanone	7440-66-6	ug/L	9/14/2008	<10	<10				
2-Hexanone	7440-66-6	ug/L	11/17/2008	<10	<10				
2-Hexanone	7440-66-6	ug/L	4/14/2009	<10					
2-Hexanone	7440-66-6	ug/L	10/25/2009	<10					
2-Hexanone	7440-66-6	ug/L	5/10/2010	<10					
2-Hexanone	7440-66-6	ug/L	11/1/2010	<10					

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
2-Hexanone	7440-66-6	ug/L	8/11/2011			<10			
2-Hexanone	7440-66-6	ug/L	10/13/2011	<10		<10			
2-Hexanone	7440-66-6	ug/L	12/5/2011			<10			
2-Hexanone	7440-66-6	ug/L	4/11/2012	<10		<10	<10		
2-Hexanone	7440-66-6	ug/L	6/25/2012			<10	<10		
2-Hexanone	7440-66-6	ug/L	8/1/2012			<10	<10		
2-Hexanone	7440-66-6	ug/L	10/11/2012	<10		<10	<10		
2-Hexanone	7440-66-6	ug/L	12/13/2012				<10		
2-Hexanone	7440-66-6	ug/L	3/30/2013	<10		<10	<10		
2-Hexanone	7440-66-6	ug/L	10/7/2013				<10		
2-Hexanone	7440-66-6	ug/L	6/2/2014	<10					
2-Hexanone	7440-66-6	ug/L	10/15/2014	<10					
2-Hexanone	7440-66-6	ug/L	4/6/2015	<10					
2-Hexanone	7440-66-6	ug/L	10/5/2015	<10					
2-Hexanone	7440-66-6	ug/L	4/4/2016	<10					
2-Hexanone	7440-66-6	ug/L	10/17/2016	<10					
2-Hexanone	7440-66-6	ug/L	4/17/2017	<10					
2-Hexanone	7440-66-6	ug/L	10/11/2017	<10					
2-Hexanone	7440-66-6	ug/L	4/25/2018	<10					
2-Hexanone	7440-66-6	ug/L	10/16/2018	<10					
2-Hexanone	7440-66-6	ug/L	4/16/2019	<10					
2-Hexanone	7440-66-6	ug/L	10/1/2019	<10					
2-Hexanone	7440-66-6	ug/L	3/30/2020	<10					
2-Hexanone	7440-66-6	ug/L	10/7/2020	<10					
2-Hexanone	7440-66-6	ug/L	4/13/2021	<5					
2-Hexanone	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5
2-Hexanone	7440-66-6	ug/L	5/2/2022	<5	<5	<5	<5	<5	<5
2-Hexanone	7440-66-6	ug/L	10/14/2022	<5	<5	<5	<5	<5	<5
2-Hexanone	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/10/2024	<10.0		<10.0		<10.0	
2-Hexanone	7440-66-6	ug/L	10/9/2024		<10.0		<10.0		
2-Hexanone	7440-66-6	ug/L	10/14/2024						<10.0
2-Methylnaphthalene	7440-66-6	ug/L	4/14/2009	<10					
2-Methylnaphthalene	7440-66-6	ug/L	5/10/2010	<10					
2-Methylnaphthalene	7440-66-6	ug/L	3/30/2013			<10	<10		
2-Methylnaphthalene	7440-66-6	ug/L	10/5/2015	<10					
2-Methylnaphthalene	7440-66-6	ug/L	3/30/2020	<10.4					
2-Methylphenol	7440-66-6	ug/L	4/14/2009	<10					
2-Methylphenol	7440-66-6	ug/L	5/10/2010	<10					
2-Methylphenol	7440-66-6	ug/L	3/30/2013			<10	<10		
2-Methylphenol	7440-66-6	ug/L	10/5/2015	<10					
2-Methylphenol	7440-66-6	ug/L	3/30/2020	<10.4					
2-Naphthylamine	7440-66-6	ug/L	4/14/2009	<10					
2-Naphthylamine	7440-66-6	ug/L	5/10/2010	<10					
2-Naphthylamine	7440-66-6	ug/L	3/30/2013			<10	<10		
2-Naphthylamine	7440-66-6	ug/L	10/5/2015	<10					
2-Naphthylamine	7440-66-6	ug/L	3/30/2020	<10.4					
2-Nitroaniline	7440-66-6	ug/L	4/14/2009	<10					
2-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10					
2-Nitroaniline	7440-66-6	ug/L	3/30/2013			<10	<10		
2-Nitroaniline	7440-66-6	ug/L	10/5/2015	<10					
2-Nitroaniline	7440-66-6	ug/L	3/30/2020	<10.4					
2-Nitrophenol	7440-66-6	ug/L	4/14/2009	<10					
2-Nitrophenol	7440-66-6	ug/L	5/10/2010	<10					
2-Nitrophenol	7440-66-6	ug/L	3/30/2013			<10	<10		

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
2-Nitrophenol	7440-66-6	ug/L	10/5/2015	<10					
2-Nitrophenol	7440-66-6	ug/L	3/30/2020	<10.4					
3,3-Dichlorobenzidine	7440-66-6	ug/L	4/14/2009	<85					
3,3-Dichlorobenzidine	7440-66-6	ug/L	5/10/2010	<10					
3,3-Dichlorobenzidine	7440-66-6	ug/L	3/30/2013			<50	<50		
3,3-Dichlorobenzidine	7440-66-6	ug/L	10/5/2015	<50					
3,3-Dichlorobenzidine	7440-66-6	ug/L	3/30/2020	<10.4					
3,3-Dimethylbenzidine	7440-66-6	ug/L	4/14/2009	<20					
3,3-Dimethylbenzidine	7440-66-6	ug/L	5/10/2010	<10					
3,3-Dimethylbenzidine	7440-66-6	ug/L	3/30/2013			<10	<10		
3,3-Dimethylbenzidine	7440-66-6	ug/L	10/5/2015	<10					
3,3-Dimethylbenzidine	7440-66-6	ug/L	3/30/2020	<10.4					
3-Methylcholanthrene	7440-66-6	ug/L	4/14/2009	<10					
3-Methylcholanthrene	7440-66-6	ug/L	5/10/2010	<10					
3-Methylcholanthrene	7440-66-6	ug/L	3/30/2013			<10	<10		
3-Methylcholanthrene	7440-66-6	ug/L	10/5/2015	<10					
3-Methylcholanthrene	7440-66-6	ug/L	3/30/2020	<10.4					
3-Nitroaniline	7440-66-6	ug/L	4/14/2009	<10					
3-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10					
3-Nitroaniline	7440-66-6	ug/L	3/30/2013			<10	<10		
3-Nitroaniline	7440-66-6	ug/L	10/5/2015	<10					
3-Nitroaniline	7440-66-6	ug/L	3/30/2020	<10.4					
4,4'-DDD	7440-66-6	ug/L	4/14/2009	<0.032					
4,4'-DDD	7440-66-6	ug/L	5/10/2010	<0.032					
4,4'-DDD	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
4,4'-DDD	7440-66-6	ug/L	10/5/2015	<0.032					
4,4'-DDD	7440-66-6	ug/L	3/30/2020	<0.0333					
4,4'-DDE	7440-66-6	ug/L	4/14/2009	<0.032					
4,4'-DDE	7440-66-6	ug/L	5/10/2010	<0.032					
4,4'-DDE	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
4,4'-DDE	7440-66-6	ug/L	10/5/2015	<0.032					
4,4'-DDE	7440-66-6	ug/L	3/30/2020	<0.0333					
4,4'-DDT	7440-66-6	ug/L	4/14/2009	<0.032					
4,4'-DDT	7440-66-6	ug/L	5/10/2010	<0.032					
4,4'-DDT	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
4,4'-DDT	7440-66-6	ug/L	10/5/2015	<0.032					
4,4'-DDT	7440-66-6	ug/L	3/30/2020	<0.0333					
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	4/14/2009	<10					
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	5/10/2010	<10					
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	3/30/2013			<10	<10		
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	10/5/2015	<10					
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	3/30/2020	<10.4					
4-Aminobiphenyl	7440-66-6	ug/L	4/14/2009	<20					
4-Aminobiphenyl	7440-66-6	ug/L	5/10/2010	<10					
4-Aminobiphenyl	7440-66-6	ug/L	3/30/2013			<10	<10		
4-Aminobiphenyl	7440-66-6	ug/L	10/5/2015	<10					
4-Aminobiphenyl	7440-66-6	ug/L	3/30/2020	<10.4					
4-Bromophenyl phenyl ether	7440-66-6	ug/L	4/14/2009	<10					
4-Bromophenyl phenyl ether	7440-66-6	ug/L	5/10/2010	<10					
4-Bromophenyl phenyl ether	7440-66-6	ug/L	3/30/2013			<10	<10		
4-Bromophenyl phenyl ether	7440-66-6	ug/L	10/5/2015	<10					
4-Bromophenyl phenyl ether	7440-66-6	ug/L	3/30/2020	<10.4					
4-Chloro-3-methylphenol	7440-66-6	ug/L	4/14/2009	<10					
4-Chloro-3-methylphenol	7440-66-6	ug/L	5/10/2010	<10					
4-Chloro-3-methylphenol	7440-66-6	ug/L	3/30/2013			<10	<10		
4-Chloro-3-methylphenol	7440-66-6	ug/L	10/5/2015	<10					
4-Chloro-3-methylphenol	7440-66-6	ug/L	3/30/2020	<10.4					

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	4/14/2009	<10					
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	5/10/2010	<10					
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	3/30/2013			<10	<10		
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	10/5/2015	<10					
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	3/30/2020	<10.4					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	2/27/2008	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/12/2008	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	7/13/2008	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	9/14/2008	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	11/17/2008	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/14/2009	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/25/2009	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/10/2010	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	11/1/2010	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	8/1/2011			<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/13/2011	<10		<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	12/5/2011			<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/1/2012	<10		<10	<10		
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	6/25/2012			<10	<10		
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	8/1/2012			<10	<10		
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/11/2012	<10		<10	<10		
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	12/13/2012				<10		
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/30/2013	<10		<10	<10		
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/7/2013				<10		
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	6/2/2014	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/15/2014	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/6/2015	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/5/2015	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/4/2016	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/17/2016	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/17/2017	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/11/2017	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/25/2018	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/16/2018	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/16/2019	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/1/2019	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/30/2020	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/7/2020	<10					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/13/2021	<5					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/20/2021	<5					
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/2/2022	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/14/2022	<5	<5	<5	<5	<5	1.1J
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/10/2024	<10.0		<10.0		<10.0	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/9/2024		<10.0		<10.0		
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/14/2024						<10.0
4-Nitroaniline	7440-66-6	ug/L	4/14/2009	<10					
4-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10					
4-Nitroaniline	7440-66-6	ug/L	3/30/2013			<10	<10		
4-Nitroaniline	7440-66-6	ug/L	10/5/2015	<10					
4-Nitroaniline	7440-66-6	ug/L	3/30/2020	<10.4					
4-Nitrophenol	7440-66-6	ug/L	4/14/2009	<10					
4-Nitrophenol	7440-66-6	ug/L	5/10/2010	<10					
4-Nitrophenol	7440-66-6	ug/L	3/30/2013			<10	<10		
4-Nitrophenol	7440-66-6	ug/L	10/5/2015	<10					

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
4-Nitrophenol	7440-66-6	ug/L	3/30/2020	<10.4					
5-Nitro-o-toluidine	7440-66-6	ug/L	4/14/2009	<10					
5-Nitro-o-toluidine	7440-66-6	ug/L	5/10/2010	<10					
5-Nitro-o-toluidine	7440-66-6	ug/L	3/30/2013			<10	<10		
5-Nitro-o-toluidine	7440-66-6	ug/L	10/5/2015	<10					
5-Nitro-o-toluidine	7440-66-6	ug/L	3/30/2020	<10.4					
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	4/14/2009	<10					
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	5/10/2010	<10					
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	3/30/2013			<10	<10		
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	10/5/2015	<10					
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	3/30/2020	<10.4					
Acenaphthene	7440-66-6	ug/L	4/14/2009	<10					
Acenaphthene	7440-66-6	ug/L	5/10/2010	<10					
Acenaphthene	7440-66-6	ug/L	3/30/2013			<10	<10		
Acenaphthene	7440-66-6	ug/L	10/5/2015	<10					
Acenaphthene	7440-66-6	ug/L	3/30/2020	<10.4					
Acenaphthylene	7440-66-6	ug/L	4/14/2009	<10					
Acenaphthylene	7440-66-6	ug/L	5/10/2010	<10					
Acenaphthylene	7440-66-6	ug/L	3/30/2013			<10	<10		
Acenaphthylene	7440-66-6	ug/L	10/5/2015	<10					
Acenaphthylene	7440-66-6	ug/L	3/30/2020	<10.4					
Acetone	7440-66-6	ug/L	2/27/2008	<10	<10				
Acetone	7440-66-6	ug/L	5/12/2008	<10	<10				
Acetone	7440-66-6	ug/L	7/13/2008	<10	<10				
Acetone	7440-66-6	ug/L	9/14/2008	<10	<10				
Acetone	7440-66-6	ug/L	11/17/2008	<10	<10				
Acetone	7440-66-6	ug/L	4/14/2009	<10					
Acetone	7440-66-6	ug/L	10/25/2009	<10					
Acetone	7440-66-6	ug/L	5/10/2010	<10					
Acetone	7440-66-6	ug/L	11/1/2010	<10					
Acetone	7440-66-6	ug/L	8/11/2011			<10			
Acetone	7440-66-6	ug/L	10/13/2011	<10		<10			
Acetone	7440-66-6	ug/L	12/5/2011			<10			
Acetone	7440-66-6	ug/L	4/11/2012	<10		<10	<10		
Acetone	7440-66-6	ug/L	6/25/2012			<10	<10		
Acetone	7440-66-6	ug/L	8/1/2012			<10	<10		
Acetone	7440-66-6	ug/L	10/11/2012	<10		<10	<10		
Acetone	7440-66-6	ug/L	12/13/2012				<10		
Acetone	7440-66-6	ug/L	3/30/2013	<10		<10	<10		
Acetone	7440-66-6	ug/L	10/7/2013				<10		
Acetone	7440-66-6	ug/L	6/2/2014	<10					
Acetone	7440-66-6	ug/L	10/15/2014	<10					
Acetone	7440-66-6	ug/L	4/6/2015	<10					
Acetone	7440-66-6	ug/L	10/5/2015	<10					
Acetone	7440-66-6	ug/L	4/4/2016	<10					
Acetone	7440-66-6	ug/L	10/17/2016	<10					
Acetone	7440-66-6	ug/L	4/17/2017	<10					
Acetone	7440-66-6	ug/L	10/11/2017	3.87J					
Acetone	7440-66-6	ug/L	4/25/2018	2.92J					
Acetone	7440-66-6	ug/L	10/16/2018	<10					
Acetone	7440-66-6	ug/L	4/16/2019	<10					
Acetone	7440-66-6	ug/L	10/1/2019	<10					
Acetone	7440-66-6	ug/L	3/30/2020	<10					
Acetone	7440-66-6	ug/L	10/7/2020	<10					
Acetone	7440-66-6	ug/L	4/13/2021	<10					
Acetone	7440-66-6	ug/L	10/20/2021	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	5/2/2022	<10	<10	<10	<10	<10	<10

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Acetone	7440-66-6	ug/L	10/14/2022	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/10/2024	<10.0		<10.0		<10.0	
Acetone	7440-66-6	ug/L	10/9/2024		<10.0		<10.0		
Acetone	7440-66-6	ug/L	10/14/2024						<10.0
Acetonitrile	7440-66-6	mg/L	4/14/2009	<10					
Acetonitrile	7440-66-6	mg/L	5/10/2010	<10					
Acetonitrile	7440-66-6	mg/L	3/30/2013			<10	<10		
Acetonitrile	7440-66-6	mg/L	10/5/2015	<10					
Acetonitrile	7440-66-6	mg/L	3/30/2020	<10					
Acetophenone	7440-66-6	ug/L	4/14/2009	<10					
Acetophenone	7440-66-6	ug/L	5/10/2010	<10					
Acetophenone	7440-66-6	ug/L	3/30/2013			<10	<10		
Acetophenone	7440-66-6	ug/L	10/5/2015	<10					
Acetophenone	7440-66-6	ug/L	3/30/2020	<10.4					
Acrolein	7440-66-6	ug/L	4/14/2009	<10					
Acrolein	7440-66-6	ug/L	5/10/2010	<10					
Acrolein	7440-66-6	ug/L	3/30/2013			<10	<10		
Acrolein	7440-66-6	ug/L	10/5/2015	<10					
Acrolein	7440-66-6	ug/L	3/30/2020	<10					
Acrylonitrile	7440-66-6	ug/L	2/27/2008	<10	<10				
Acrylonitrile	7440-66-6	ug/L	5/12/2008	<10	<10				
Acrylonitrile	7440-66-6	ug/L	7/13/2008	<10	<10				
Acrylonitrile	7440-66-6	ug/L	9/14/2008	<10	<10				
Acrylonitrile	7440-66-6	ug/L	11/17/2008	<10	<10				
Acrylonitrile	7440-66-6	ug/L	4/14/2009	<10					
Acrylonitrile	7440-66-6	ug/L	10/25/2009	<10					
Acrylonitrile	7440-66-6	ug/L	5/10/2010	<10					
Acrylonitrile	7440-66-6	ug/L	11/1/2010	<10					
Acrylonitrile	7440-66-6	ug/L	8/11/2011			<10			
Acrylonitrile	7440-66-6	ug/L	10/13/2011	<10		<10			
Acrylonitrile	7440-66-6	ug/L	12/5/2011			<10			
Acrylonitrile	7440-66-6	ug/L	4/11/2012	<10		<10	<10		
Acrylonitrile	7440-66-6	ug/L	6/25/2012			<10	<10		
Acrylonitrile	7440-66-6	ug/L	8/1/2012			<10	<10		
Acrylonitrile	7440-66-6	ug/L	10/11/2012	<10		<10	<10		
Acrylonitrile	7440-66-6	ug/L	12/13/2012				<10		
Acrylonitrile	7440-66-6	ug/L	3/30/2013	<10		<10	<10		
Acrylonitrile	7440-66-6	ug/L	10/7/2013				<10		
Acrylonitrile	7440-66-6	ug/L	6/2/2014	<10					
Acrylonitrile	7440-66-6	ug/L	10/15/2014	<10					
Acrylonitrile	7440-66-6	ug/L	4/6/2015	<10					
Acrylonitrile	7440-66-6	ug/L	10/5/2015	<10					
Acrylonitrile	7440-66-6	ug/L	4/4/2016	<10					
Acrylonitrile	7440-66-6	ug/L	10/17/2016	<10					
Acrylonitrile	7440-66-6	ug/L	4/17/2017	<5					
Acrylonitrile	7440-66-6	ug/L	10/11/2017	<5					
Acrylonitrile	7440-66-6	ug/L	4/25/2018	<5					
Acrylonitrile	7440-66-6	ug/L	10/16/2018	<5					
Acrylonitrile	7440-66-6	ug/L	4/16/2019	<5					
Acrylonitrile	7440-66-6	ug/L	10/1/2019	<5					
Acrylonitrile	7440-66-6	ug/L	3/30/2020	<5					
Acrylonitrile	7440-66-6	ug/L	10/7/2020	<5					
Acrylonitrile	7440-66-6	ug/L	4/13/2021	<5					
Acrylonitrile	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5

Table 9A
Analytical Data Summary - AZPOC Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Acrylonitrile	7440-66-6	ug/L	5/2/2022	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/14/2022	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/10/2024	<5.00		<5.00		<5.00	
Acrylonitrile	7440-66-6	ug/L	10/9/2024		<5.00		<5.00		
Acrylonitrile	7440-66-6	ug/L	10/14/2024						<5.00
Aldrin	7440-66-6	ug/L	4/14/2009	<0.032					
Aldrin	7440-66-6	ug/L	5/10/2010	<0.032					
Aldrin	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Aldrin	7440-66-6	ug/L	10/5/2015	<0.032					
Aldrin	7440-66-6	ug/L	3/30/2020	<0.0333					
Alkalinity, Phenol [CaCO3]	7440-66-6	mg/L	6/2/2014	<5					
Alkalinity, Phenol [CaCO3]	7440-66-6	mg/L	10/15/2014	<5		<5			
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	6/2/2014	475					
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	10/15/2014	526		205			
Allyl Chloride	7440-66-6	ug/L	4/14/2009	<2					
Allyl Chloride	7440-66-6	ug/L	5/10/2010	<2					
Allyl Chloride	7440-66-6	ug/L	3/30/2013			<2	<2		
Allyl Chloride	7440-66-6	ug/L	10/5/2015	<2					
Allyl Chloride	7440-66-6	ug/L	3/30/2020	<2					
Alpha-BHC	7440-66-6	ug/L	4/14/2009	<0.032					
Alpha-BHC	7440-66-6	ug/L	5/10/2010	<0.032					
Alpha-BHC	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Alpha-BHC	7440-66-6	ug/L	10/5/2015	<0.032					
Alpha-BHC	7440-66-6	ug/L	3/30/2020	<0.0333					
Ammonia as N	7440-66-6	mg/L	4/6/2015	0.315	<0.2	<0.2	<0.2		
Ammonia as N	7440-66-6	mg/L	10/5/2015	0.335	<0.2	<0.2	<0.2		
Ammonia as N	7440-66-6	mg/L	4/4/2016	0.313	<0.2	<0.2	<0.2		
Ammonia as N	7440-66-6	mg/L	10/17/2016	0.404	<0.2	<0.2	<0.2		
Anthracene	7440-66-6	ug/L	4/14/2009	<10					
Anthracene	7440-66-6	ug/L	5/10/2010	<10					
Anthracene	7440-66-6	ug/L	3/30/2013			<10	<10		
Anthracene	7440-66-6	ug/L	10/5/2015	<10					
Anthracene	7440-66-6	ug/L	3/30/2020	<10.4					
Antimony	7440-66-6	mg/L	2/27/2008	<0.006	<0.006				
Antimony	7440-66-6	mg/L	5/12/2008	<0.006	<0.006				
Antimony	7440-66-6	mg/L	7/13/2008	<0.006	<0.006				
Antimony	7440-66-6	mg/L	9/14/2008	<0.006	<0.006				
Antimony	7440-66-6	mg/L	11/17/2008	<0.006	<0.006				
Antimony	7440-66-6	mg/L	4/14/2009	<0.006					
Antimony	7440-66-6	mg/L	10/25/2009	<0.006					
Antimony	7440-66-6	mg/L	5/10/2010	<0.002					
Antimony	7440-66-6	mg/L	11/1/2010	<0.006					
Antimony	7440-66-6	mg/L	8/11/2011			<0.006			
Antimony	7440-66-6	mg/L	10/13/2011			<0.006			
Antimony	7440-66-6	mg/L	12/5/2011			<0.006			
Antimony	7440-66-6	mg/L	4/11/2012	<0.006		<0.006	<0.006		
Antimony	7440-66-6	mg/L	6/25/2012			<0.006	<0.006		
Antimony	7440-66-6	mg/L	8/1/2012			<0.006	<0.006		
Antimony	7440-66-6	mg/L	10/11/2012	<0.006		<0.006	<0.006		
Antimony	7440-66-6	mg/L	12/13/2012				<0.006		
Antimony	7440-66-6	mg/L	3/30/2013	<0.006		<0.006	<0.006		
Antimony	7440-66-6	mg/L	10/7/2013	<0.006		<0.006	<0.006		
Antimony	7440-66-6	mg/L	6/2/2014	<0.006					
Antimony	7440-66-6	mg/L	10/15/2014	<0.006					

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Antimony	7440-66-6	mg/L	4/6/2015	<0.001					
Antimony	7440-66-6	mg/L	10/5/2015	<0.001					
Antimony	7440-66-6	mg/L	4/4/2016	<0.001					
Antimony	7440-66-6	mg/L	10/17/2016	<0.001					
Antimony	7440-66-6	mg/L	4/17/2017	<0.001					
Antimony	7440-66-6	mg/L	10/11/2017	<0.001					
Antimony	7440-66-6	mg/L	4/25/2018	<0.001					
Antimony	7440-66-6	mg/L	10/16/2018	<0.003					
Antimony	7440-66-6	mg/L	4/16/2019	<0.001					
Antimony	7440-66-6	mg/L	10/1/2019	<0.001					
Antimony	7440-66-6	mg/L	3/30/2020	<0.001					
Antimony	7440-66-6	mg/L	10/7/2020	0.000586J					
Antimony	7440-66-6	mg/L	4/13/2021	<0.002					
Antimony	7440-66-6	mg/L	10/20/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	5/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	10/14/2022	<0.002	<0.002	<0.002	<0.002	0.0005J	<0.002
Antimony	7440-66-6	mg/L	5/1/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	10/16/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	4/29/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	10/10/2024	<0.00200		<0.00200		<0.00200	
Antimony	7440-66-6	mg/L	10/9/2024		<0.00200		<0.00200		
Antimony	7440-66-6	mg/L	10/14/2024						<0.00200
Arsenic	7440-66-6	mg/L	2/27/2008	<0.001	<0.001				
Arsenic	7440-66-6	mg/L	5/12/2008	<0.001	<0.001				
Arsenic	7440-66-6	mg/L	7/13/2008	<0.001	<0.001				
Arsenic	7440-66-6	mg/L	9/14/2008	<0.001	<0.001				
Arsenic	7440-66-6	mg/L	11/17/2008	<0.001	<0.001				
Arsenic	7440-66-6	mg/L	4/14/2009	<0.001					
Arsenic	7440-66-6	mg/L	10/25/2009	0.0013					
Arsenic	7440-66-6	mg/L	5/10/2010	0.0029					
Arsenic	7440-66-6	mg/L	8/11/2011			<0.001			
Arsenic	7440-66-6	mg/L	10/13/2011			<0.001			
Arsenic	7440-66-6	mg/L	12/5/2011			<0.001			
Arsenic	7440-66-6	mg/L	4/11/2012	<0.002		<0.001	<0.001		
Arsenic	7440-66-6	mg/L	6/25/2012			<0.001	<0.001		
Arsenic	7440-66-6	mg/L	8/1/2012			<0.001	<0.001		
Arsenic	7440-66-6	mg/L	10/11/2012	<0.001		<0.001	<0.002		
Arsenic	7440-66-6	mg/L	12/13/2012				<0.001		
Arsenic	7440-66-6	mg/L	3/30/2013	<0.001		<0.001	<0.001		
Arsenic	7440-66-6	mg/L	10/7/2013	<0.001		<0.001	<0.001		
Arsenic	7440-66-6	mg/L	6/2/2014	<0.001	0.00028J		<0.001		
Arsenic	7440-66-6	mg/L	10/15/2014	<0.001	<0.001		<0.001		
Arsenic	7440-66-6	mg/L	4/6/2015	<0.002	<0.002	<0.002			
Arsenic	7440-66-6	mg/L	10/5/2015	<0.002	<0.002	<0.002			
Arsenic	7440-66-6	mg/L	4/4/2016	<0.002	<0.002	<0.002			
Arsenic	7440-66-6	mg/L	10/17/2016	<0.002	<0.002	<0.002			
Arsenic	7440-66-6	mg/L	4/17/2017	<0.002	<0.002	<0.002			
Arsenic	7440-66-6	mg/L	10/11/2017	<0.002	<0.002	<0.002			
Arsenic	7440-66-6	mg/L	4/24/2018		<0.002				
Arsenic	7440-66-6	mg/L	4/25/2018	0.00126J		<0.002			
Arsenic	7440-66-6	mg/L	10/16/2018	0.000568J	<0.002	<0.002		<0.002	
Arsenic	7440-66-6	mg/L	4/16/2019	<0.002	<0.002	<0.002		<0.002	
Arsenic	7440-66-6	mg/L	10/1/2019	<0.002	<0.002	<0.002		<0.002	
Arsenic	7440-66-6	mg/L	3/30/2020	<0.002	<0.002	<0.002		<0.002	
Arsenic	7440-66-6	mg/L	10/7/2020	<0.002	<0.002	<0.002		<0.002	
Arsenic	7440-66-6	mg/L	4/13/2021	<0.004	<0.004	<0.004		<0.004	
Arsenic	7440-66-6	mg/L	10/20/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Arsenic	7440-66-6	mg/L	5/2/2022	<0.004	0.0009J	<0.004	<0.004	<0.004	<0.004
Arsenic	7440-66-6	mg/L	10/14/2022	<0.004	0.0012J	<0.004	0.001J	0.0018J	0.0014J
Arsenic	7440-66-6	mg/L	5/1/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic	7440-66-6	mg/L	10/16/2023	<0.002	<0.002	<0.002	<0.002	<0.002	0.000693J
Arsenic	7440-66-6	mg/L	4/29/2024	0.00255	<0.002	<0.002	<0.002	<0.002	<0.002
Arsenic	7440-66-6	mg/L	10/10/2024	<0.00200		<0.00200		<0.00200	
Arsenic	7440-66-6	mg/L	10/9/2024		<0.00200		<0.00200		
Arsenic	7440-66-6	mg/L	10/14/2024						<0.00200
Barium	7440-66-6	mg/L	2/27/2008	0.376	0.138				
Barium	7440-66-6	mg/L	5/12/2008	0.356	0.104				
Barium	7440-66-6	mg/L	7/13/2008	0.327	0.0972				
Barium	7440-66-6	mg/L	9/14/2008	0.341	0.114				
Barium	7440-66-6	mg/L	11/17/2008	0.368	0.13				
Barium	7440-66-6	mg/L	4/14/2009	0.363					
Barium	7440-66-6	mg/L	7/7/2009	0.159					
Barium	7440-66-6	mg/L	9/2/2009	0.358					
Barium	7440-66-6	mg/L	10/25/2009	0.376					
Barium	7440-66-6	mg/L	1/2/2010	0.385					
Barium	7440-66-6	mg/L	5/10/2010	0.38					
Barium	7440-66-6	mg/L	11/1/2010	0.348					
Barium	7440-66-6	mg/L	8/11/2011			0.0547			
Barium	7440-66-6	mg/L	10/13/2011			0.061			
Barium	7440-66-6	mg/L	12/5/2011			0.156			
Barium	7440-66-6	mg/L	2/6/2012			0.06			
Barium	7440-66-6	mg/L	4/11/2012	0.41		0.059	0.163		
Barium	7440-66-6	mg/L	6/25/2012			0.0789	0.164		
Barium	7440-66-6	mg/L	8/1/2012			0.0875	0.194		
Barium	7440-66-6	mg/L	10/11/2012	0.445		0.0522	0.259		
Barium	7440-66-6	mg/L	12/13/2012				0.247		
Barium	7440-66-6	mg/L	3/30/2013	0.441		0.0662	0.159		
Barium	7440-66-6	mg/L	10/7/2013	0.45; 0.455		0.0691	0.191		
Barium	7440-66-6	mg/L	6/2/2014	0.345; 0.358					
Barium	7440-66-6	mg/L	10/15/2014	0.454					
Barium	7440-66-6	mg/L	4/6/2015	0.443					
Barium	7440-66-6	mg/L	10/5/2015	0.494					
Barium	7440-66-6	mg/L	4/4/2016	0.515					
Barium	7440-66-6	mg/L	10/17/2016	0.471					
Barium	7440-66-6	mg/L	4/17/2017	0.566; 0.55					
Barium	7440-66-6	mg/L	10/11/2017	0.493					
Barium	7440-66-6	mg/L	4/25/2018	0.599					
Barium	7440-66-6	mg/L	10/16/2018	0.522					
Barium	7440-66-6	mg/L	4/16/2019	0.554; 0.681					
Barium	7440-66-6	mg/L	10/1/2019	0.578					
Barium	7440-66-6	mg/L	3/30/2020	0.539					
Barium	7440-66-6	mg/L	10/7/2020	0.578					
Barium	7440-66-6	mg/L	4/13/2021	0.517					
Barium	7440-66-6	mg/L	10/20/2021	0.55	0.131	0.2	0.173	0.182	0.114
Barium	7440-66-6	mg/L	5/2/2022	0.55; 0.572	0.13	0.0999	0.174	0.168	0.099
Barium	7440-66-6	mg/L	10/14/2022	0.527	0.164	0.146	0.185	0.194	0.0993
Barium	7440-66-6	mg/L	5/1/2023	0.644	0.131; 0.125	0.107	0.195	0.183	0.0989
Barium	7440-66-6	mg/L	10/16/2023	0.557	0.138	0.119	0.178	0.167	0.106
Barium	7440-66-6	mg/L	4/29/2024	0.521	0.15	0.0891	0.164	0.157	0.0923
Barium	7440-66-6	mg/L	10/10/2024	0.63		0.124		0.177	
Barium	7440-66-6	mg/L	10/9/2024		0.148		0.171		
Barium	7440-66-6	mg/L	10/14/2024						0.0925
Benzene	7440-66-6	ug/L	2/27/2008	<0.5	<0.5				
Benzene	7440-66-6	ug/L	5/12/2008	<0.5	<0.5				

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Benzene	7440-66-6	ug/L	7/13/2008	<0.5	<0.5				
Benzene	7440-66-6	ug/L	9/14/2008	<0.5	<0.5				
Benzene	7440-66-6	ug/L	11/17/2008	<0.5	<0.5				
Benzene	7440-66-6	ug/L	4/14/2009	<0.5					
Benzene	7440-66-6	ug/L	10/25/2009	<0.5					
Benzene	7440-66-6	ug/L	5/10/2010	<0.5					
Benzene	7440-66-6	ug/L	11/1/2010	<0.5					
Benzene	7440-66-6	ug/L	8/11/2011			<0.5			
Benzene	7440-66-6	ug/L	10/13/2011	<0.5		<0.5			
Benzene	7440-66-6	ug/L	12/5/2011			<0.5			
Benzene	7440-66-6	ug/L	4/11/2012	<0.5		<0.5	<0.5		
Benzene	7440-66-6	ug/L	6/25/2012			<0.5	<0.5		
Benzene	7440-66-6	ug/L	8/1/2012			<0.5	<0.5		
Benzene	7440-66-6	ug/L	10/11/2012	<0.5		<0.5	<0.5		
Benzene	7440-66-6	ug/L	12/13/2012				<0.5		
Benzene	7440-66-6	ug/L	3/30/2013	<0.5		<0.5	<0.5		
Benzene	7440-66-6	ug/L	10/7/2013				<0.5		
Benzene	7440-66-6	ug/L	6/2/2014	<0.5					
Benzene	7440-66-6	ug/L	10/15/2014	<0.5					
Benzene	7440-66-6	ug/L	4/6/2015	<0.5					
Benzene	7440-66-6	ug/L	10/5/2015	<0.5					
Benzene	7440-66-6	ug/L	4/4/2016	<0.5					
Benzene	7440-66-6	ug/L	10/17/2016	<0.5					
Benzene	7440-66-6	ug/L	4/17/2017	<0.5					
Benzene	7440-66-6	ug/L	10/11/2017	<0.5					
Benzene	7440-66-6	ug/L	4/25/2018	<0.5					
Benzene	7440-66-6	ug/L	10/16/2018	<0.5					
Benzene	7440-66-6	ug/L	4/16/2019	<0.5					
Benzene	7440-66-6	ug/L	10/1/2019	<0.5					
Benzene	7440-66-6	ug/L	3/30/2020	<0.5					
Benzene	7440-66-6	ug/L	10/7/2020	<0.5					
Benzene	7440-66-6	ug/L	4/13/2021	<1					
Benzene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Benzene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Benzene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Benzene	7440-66-6	ug/L	5/1/2023	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	7440-66-6	ug/L	10/16/2023	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	7440-66-6	ug/L	4/29/2024	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	7440-66-6	ug/L	10/10/2024	<0.500		<0.500		<0.500	
Benzene	7440-66-6	ug/L	10/9/2024		<0.500		<0.500		
Benzene	7440-66-6	ug/L	10/14/2024						<0.500
Benzo [k] fluoranthene	7440-66-6	ug/L	4/14/2009	<10					
Benzo [k] fluoranthene	7440-66-6	ug/L	5/10/2010	<10					
Benzo [k] fluoranthene	7440-66-6	ug/L	3/30/2013			<10	<10		
Benzo [k] fluoranthene	7440-66-6	ug/L	10/5/2015	<10					
Benzo [k] fluoranthene	7440-66-6	ug/L	3/30/2020	<10.4					
Benzo[a]anthracene	7440-66-6	ug/L	4/14/2009	<10					
Benzo[a]anthracene	7440-66-6	ug/L	5/10/2010	<10					
Benzo[a]anthracene	7440-66-6	ug/L	3/30/2013			<10	<10		
Benzo[a]anthracene	7440-66-6	ug/L	10/5/2015	<10					
Benzo[a]anthracene	7440-66-6	ug/L	3/30/2020	<10.4					
Benzo[a]pyrene	7440-66-6	ug/L	4/14/2009	<10					
Benzo[a]pyrene	7440-66-6	ug/L	5/10/2010	<10					
Benzo[a]pyrene	7440-66-6	ug/L	3/30/2013			<10	<10		
Benzo[a]pyrene	7440-66-6	ug/L	10/5/2015	<10					
Benzo[a]pyrene	7440-66-6	ug/L	3/30/2020	<10.4					
Benzo[b]fluoranthene	7440-66-6	ug/L	4/14/2009	<10					

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Benzo[b]fluoranthene	7440-66-6	ug/L	5/10/2010	<10					
Benzo[b]fluoranthene	7440-66-6	ug/L	3/30/2013			<10	<10		
Benzo[b]fluoranthene	7440-66-6	ug/L	10/5/2015	<10					
Benzo[b]fluoranthene	7440-66-6	ug/L	3/30/2020	<10.4					
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/14/2009	<10					
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/10/2010	<10					
Benzo[g,h,i]perylene	7440-66-6	ug/L	3/30/2013			<10	<10		
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/5/2015	<10					
Benzo[g,h,i]perylene	7440-66-6	ug/L	3/30/2020	<10.4					
Benzyl alcohol	7440-66-6	ug/L	4/14/2009	<10					
Benzyl alcohol	7440-66-6	ug/L	5/10/2010	<10					
Benzyl alcohol	7440-66-6	ug/L	3/30/2013			<10	<10		
Benzyl alcohol	7440-66-6	ug/L	10/5/2015	<10					
Benzyl alcohol	7440-66-6	ug/L	3/30/2020	<10.4					
Beryllium	7440-66-6	mg/L	2/27/2008	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	5/12/2008	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	7/13/2008	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	9/14/2008	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	11/17/2008	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	4/14/2009	<0.001					
Beryllium	7440-66-6	mg/L	10/25/2009	<0.001					
Beryllium	7440-66-6	mg/L	5/10/2010	<0.0004					
Beryllium	7440-66-6	mg/L	11/1/2010	<0.001					
Beryllium	7440-66-6	mg/L	8/11/2011			<0.001			
Beryllium	7440-66-6	mg/L	10/13/2011			<0.001			
Beryllium	7440-66-6	mg/L	12/5/2011			<0.001			
Beryllium	7440-66-6	mg/L	4/11/2012	<0.001		<0.001	<0.001		
Beryllium	7440-66-6	mg/L	6/25/2012			<0.001	<0.001		
Beryllium	7440-66-6	mg/L	8/1/2012			<0.001	<0.001		
Beryllium	7440-66-6	mg/L	10/11/2012	<0.001		<0.001	<0.001		
Beryllium	7440-66-6	mg/L	12/13/2012				<0.001		
Beryllium	7440-66-6	mg/L	3/30/2013	<0.001		<0.001	<0.001		
Beryllium	7440-66-6	mg/L	10/7/2013	<0.001		<0.001	<0.001		
Beryllium	7440-66-6	mg/L	6/2/2014	<0.001					
Beryllium	7440-66-6	mg/L	10/15/2014	<0.001					
Beryllium	7440-66-6	mg/L	4/6/2015	<0.001					
Beryllium	7440-66-6	mg/L	10/5/2015	<0.001					
Beryllium	7440-66-6	mg/L	4/4/2016	<0.001					
Beryllium	7440-66-6	mg/L	10/17/2016	<0.001					
Beryllium	7440-66-6	mg/L	4/17/2017	<0.001					
Beryllium	7440-66-6	mg/L	10/11/2017	<0.001					
Beryllium	7440-66-6	mg/L	4/25/2018	<0.001					
Beryllium	7440-66-6	mg/L	10/16/2018	<0.001					
Beryllium	7440-66-6	mg/L	4/16/2019	<0.001					
Beryllium	7440-66-6	mg/L	10/1/2019	<0.001					
Beryllium	7440-66-6	mg/L	3/30/2020	<0.001					
Beryllium	7440-66-6	mg/L	10/7/2020	<0.001					
Beryllium	7440-66-6	mg/L	4/13/2021	<0.004					
Beryllium	7440-66-6	mg/L	10/20/2021	0.0001J	<0.004	<0.004	0.0002J	<0.004	<0.004
Beryllium	7440-66-6	mg/L	5/2/2022	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Beryllium	7440-66-6	mg/L	10/14/2022	<0.004	<0.004	<0.004	<0.004	0.0001J	<0.004
Beryllium	7440-66-6	mg/L	5/1/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/29/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/10/2024	<0.00100		<0.00100		<0.00100	
Beryllium	7440-66-6	mg/L	10/9/2024		<0.00100		<0.00100		
Beryllium	7440-66-6	mg/L	10/14/2024						<0.00100

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Beta-BHC	7440-66-6	ug/L	4/14/2009	<0.032					
Beta-BHC	7440-66-6	ug/L	5/10/2010	<0.032					
Beta-BHC	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Beta-BHC	7440-66-6	ug/L	10/5/2015	<0.032					
Beta-BHC	7440-66-6	ug/L	3/30/2020	<0.0333					
Bicarbonate	7440-66-6	mg/L	6/2/2014	475					
Bicarbonate	7440-66-6	mg/L	10/15/2014	526		205			
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	4/14/2009	<10					
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	5/10/2010	<10					
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	3/30/2013			<10	<10		
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	10/5/2015	<10					
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	3/30/2020	<10.4					
Bis[2-chloroethyl]ether	7440-66-6	ug/L	4/14/2009	<10					
Bis[2-chloroethyl]ether	7440-66-6	ug/L	5/10/2010	<10					
Bis[2-chloroethyl]ether	7440-66-6	ug/L	3/30/2013			<10	<10		
Bis[2-chloroethyl]ether	7440-66-6	ug/L	10/5/2015	<10					
Bis[2-chloroethyl]ether	7440-66-6	ug/L	3/30/2020	<10.4					
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/14/2009	<10					
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/10/2010	<10					
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	3/30/2013			<10	<10		
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/5/2015	<10					
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	3/30/2020	<10.4					
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/14/2009	<10					
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	5/10/2010	<10					
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	3/30/2013			<10	<10		
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/5/2015	<10					
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	3/30/2020	<10.4					
Bromochloromethane	7440-66-6	ug/L	2/27/2008	<5	<5				
Bromochloromethane	7440-66-6	ug/L	5/12/2008	<5	<5				
Bromochloromethane	7440-66-6	ug/L	7/13/2008	<5	<5				
Bromochloromethane	7440-66-6	ug/L	9/14/2008	<5	<5				
Bromochloromethane	7440-66-6	ug/L	11/17/2008	<5	<5				
Bromochloromethane	7440-66-6	ug/L	4/14/2009	<5					
Bromochloromethane	7440-66-6	ug/L	10/25/2009	<5					
Bromochloromethane	7440-66-6	ug/L	5/10/2010	<5					
Bromochloromethane	7440-66-6	ug/L	11/1/2010	<5					
Bromochloromethane	7440-66-6	ug/L	8/11/2011		<5				
Bromochloromethane	7440-66-6	ug/L	10/13/2011	<5	<5				
Bromochloromethane	7440-66-6	ug/L	12/5/2011		<5				
Bromochloromethane	7440-66-6	ug/L	4/11/2012	<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	6/25/2012		<5	<5			
Bromochloromethane	7440-66-6	ug/L	8/1/2012		<5	<5			
Bromochloromethane	7440-66-6	ug/L	10/11/2012	<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	12/13/2012			<5			
Bromochloromethane	7440-66-6	ug/L	3/30/2013	<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	10/7/2013			<5			
Bromochloromethane	7440-66-6	ug/L	6/2/2014	<5					
Bromochloromethane	7440-66-6	ug/L	10/15/2014	<5					
Bromochloromethane	7440-66-6	ug/L	4/6/2015	<5					
Bromochloromethane	7440-66-6	ug/L	10/5/2015	<5					
Bromochloromethane	7440-66-6	ug/L	4/4/2016	<5					
Bromochloromethane	7440-66-6	ug/L	10/17/2016	<5					
Bromochloromethane	7440-66-6	ug/L	4/17/2017	<5					
Bromochloromethane	7440-66-6	ug/L	10/11/2017	<5					
Bromochloromethane	7440-66-6	ug/L	4/25/2018	<5					
Bromochloromethane	7440-66-6	ug/L	10/16/2018	<5					
Bromochloromethane	7440-66-6	ug/L	4/16/2019	<5					

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Bromochloromethane	7440-66-6	ug/L	10/1/2019	<5					
Bromochloromethane	7440-66-6	ug/L	3/30/2020	<5					
Bromochloromethane	7440-66-6	ug/L	10/7/2020	<5					
Bromochloromethane	7440-66-6	ug/L	4/13/2021	<1					
Bromochloromethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Bromochloromethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Bromochloromethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Bromochloromethane	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/10/2024	<5.00		<5.00		<5.00	
Bromochloromethane	7440-66-6	ug/L	10/9/2024		<5.00		<5.00		
Bromochloromethane	7440-66-6	ug/L	10/14/2024						<5.00
Bromodichloromethane	7440-66-6	ug/L	2/27/2008	<1	<1				
Bromodichloromethane	7440-66-6	ug/L	5/12/2008	<1	<1				
Bromodichloromethane	7440-66-6	ug/L	7/13/2008	<1	<1				
Bromodichloromethane	7440-66-6	ug/L	9/14/2008	<1	<1				
Bromodichloromethane	7440-66-6	ug/L	11/17/2008	<1	<1				
Bromodichloromethane	7440-66-6	ug/L	4/14/2009	<1					
Bromodichloromethane	7440-66-6	ug/L	10/25/2009	<2					
Bromodichloromethane	7440-66-6	ug/L	5/10/2010	<1					
Bromodichloromethane	7440-66-6	ug/L	11/1/2010	<1					
Bromodichloromethane	7440-66-6	ug/L	8/11/2011			<1			
Bromodichloromethane	7440-66-6	ug/L	10/13/2011	<1		<1			
Bromodichloromethane	7440-66-6	ug/L	12/5/2011			<1			
Bromodichloromethane	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
Bromodichloromethane	7440-66-6	ug/L	6/25/2012			<1	<1		
Bromodichloromethane	7440-66-6	ug/L	8/1/2012			<1	<1		
Bromodichloromethane	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
Bromodichloromethane	7440-66-6	ug/L	12/13/2012				<1		
Bromodichloromethane	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
Bromodichloromethane	7440-66-6	ug/L	10/7/2013				<1		
Bromodichloromethane	7440-66-6	ug/L	6/2/2014	<1					
Bromodichloromethane	7440-66-6	ug/L	10/15/2014	<1					
Bromodichloromethane	7440-66-6	ug/L	4/6/2015	<1					
Bromodichloromethane	7440-66-6	ug/L	10/5/2015	<1					
Bromodichloromethane	7440-66-6	ug/L	4/4/2016	<1					
Bromodichloromethane	7440-66-6	ug/L	10/17/2016	<1					
Bromodichloromethane	7440-66-6	ug/L	4/17/2017	<1					
Bromodichloromethane	7440-66-6	ug/L	10/11/2017	<1					
Bromodichloromethane	7440-66-6	ug/L	4/25/2018	<1					
Bromodichloromethane	7440-66-6	ug/L	10/16/2018	<1					
Bromodichloromethane	7440-66-6	ug/L	4/16/2019	<1					
Bromodichloromethane	7440-66-6	ug/L	10/1/2019	<1					
Bromodichloromethane	7440-66-6	ug/L	3/30/2020	<1					
Bromodichloromethane	7440-66-6	ug/L	10/7/2020	<1					
Bromodichloromethane	7440-66-6	ug/L	4/13/2021	<1					
Bromodichloromethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
Bromodichloromethane	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
Bromodichloromethane	7440-66-6	ug/L	10/14/2024						<1.00
Bromoform	7440-66-6	ug/L	2/27/2008	<5	<5				

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Bromoform	7440-66-6	ug/L	5/12/2008	<5	<5				
Bromoform	7440-66-6	ug/L	7/13/2008	<5	<5				
Bromoform	7440-66-6	ug/L	9/14/2008	<5	<5				
Bromoform	7440-66-6	ug/L	11/17/2008	<5	<5				
Bromoform	7440-66-6	ug/L	4/14/2009	<5					
Bromoform	7440-66-6	ug/L	10/25/2009	<10					
Bromoform	7440-66-6	ug/L	5/10/2010	<20					
Bromoform	7440-66-6	ug/L	11/1/2010	<10					
Bromoform	7440-66-6	ug/L	8/11/2011			<5			
Bromoform	7440-66-6	ug/L	10/13/2011	<5		<5			
Bromoform	7440-66-6	ug/L	12/5/2011			<5			
Bromoform	7440-66-6	ug/L	4/11/2012	<5		<5	<5		
Bromoform	7440-66-6	ug/L	6/25/2012			<5	<5		
Bromoform	7440-66-6	ug/L	8/1/2012			<5	<5		
Bromoform	7440-66-6	ug/L	10/11/2012	<5		<5	<5		
Bromoform	7440-66-6	ug/L	12/13/2012				<5		
Bromoform	7440-66-6	ug/L	3/30/2013	<5		<5	<5		
Bromoform	7440-66-6	ug/L	10/7/2013				<5		
Bromoform	7440-66-6	ug/L	6/2/2014	<5					
Bromoform	7440-66-6	ug/L	10/15/2014	<5					
Bromoform	7440-66-6	ug/L	4/6/2015	<5					
Bromoform	7440-66-6	ug/L	10/5/2015	<5					
Bromoform	7440-66-6	ug/L	4/4/2016	<5					
Bromoform	7440-66-6	ug/L	10/17/2016	<5					
Bromoform	7440-66-6	ug/L	4/17/2017	<5					
Bromoform	7440-66-6	ug/L	10/11/2017	<5					
Bromoform	7440-66-6	ug/L	4/25/2018	<5					
Bromoform	7440-66-6	ug/L	10/16/2018	<5					
Bromoform	7440-66-6	ug/L	4/16/2019	<5					
Bromoform	7440-66-6	ug/L	10/1/2019	<5					
Bromoform	7440-66-6	ug/L	3/30/2020	<5					
Bromoform	7440-66-6	ug/L	10/7/2020	<5					
Bromoform	7440-66-6	ug/L	4/13/2021	<1					
Bromoform	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Bromoform	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Bromoform	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Bromoform	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/10/2024	<5.00		<5.00		<5.00	
Bromoform	7440-66-6	ug/L	10/9/2024		<5.00		<5.00		
Bromoform	7440-66-6	ug/L	10/14/2024						<5.00
Bromomethane	7440-66-6	ug/L	2/27/2008	<4	<4				
Bromomethane	7440-66-6	ug/L	5/12/2008	<4	<4				
Bromomethane	7440-66-6	ug/L	7/13/2008	<4	<4				
Bromomethane	7440-66-6	ug/L	9/14/2008	<4	<4				
Bromomethane	7440-66-6	ug/L	11/17/2008	<4	<4				
Bromomethane	7440-66-6	ug/L	4/14/2009	<4					
Bromomethane	7440-66-6	ug/L	10/25/2009	<4					
Bromomethane	7440-66-6	ug/L	5/10/2010	<5					
Bromomethane	7440-66-6	ug/L	11/1/2010	<4					
Bromomethane	7440-66-6	ug/L	8/11/2011			<4			
Bromomethane	7440-66-6	ug/L	10/13/2011	<4		<4			
Bromomethane	7440-66-6	ug/L	12/5/2011			<4			
Bromomethane	7440-66-6	ug/L	4/11/2012	<4		<4	<4		
Bromomethane	7440-66-6	ug/L	6/25/2012			<4	<4		
Bromomethane	7440-66-6	ug/L	8/1/2012			<4	<4		

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Bromomethane	7440-66-6	ug/L	10/11/2012	<4		<4	<4		
Bromomethane	7440-66-6	ug/L	12/13/2012				<4		
Bromomethane	7440-66-6	ug/L	3/30/2013	<4		<4	<4		
Bromomethane	7440-66-6	ug/L	10/7/2013				<4		
Bromomethane	7440-66-6	ug/L	6/2/2014	<4					
Bromomethane	7440-66-6	ug/L	10/15/2014	<4					
Bromomethane	7440-66-6	ug/L	4/6/2015	<4					
Bromomethane	7440-66-6	ug/L	10/5/2015	<4					
Bromomethane	7440-66-6	ug/L	4/4/2016	<4					
Bromomethane	7440-66-6	ug/L	10/17/2016	<4					
Bromomethane	7440-66-6	ug/L	4/17/2017	0.383J; 0.59J					
Bromomethane	7440-66-6	ug/L	10/11/2017	<4					
Bromomethane	7440-66-6	ug/L	4/25/2018	<4					
Bromomethane	7440-66-6	ug/L	10/16/2018	<4					
Bromomethane	7440-66-6	ug/L	4/16/2019	<4					
Bromomethane	7440-66-6	ug/L	10/1/2019	<4					
Bromomethane	7440-66-6	ug/L	3/30/2020	<4					
Bromomethane	7440-66-6	ug/L	10/7/2020	<4					
Bromomethane	7440-66-6	ug/L	4/13/2021	<1					
Bromomethane	7440-66-6	ug/L	10/20/2021	<1		<1	<1	<1	<1
Bromomethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Bromomethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Bromomethane	7440-66-6	ug/L	5/1/2023	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/16/2023	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	4/29/2024	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/10/2024	<4.00		<4.00		<4.00	
Bromomethane	7440-66-6	ug/L	10/9/2024		<4.00		<4.00		
Bromomethane	7440-66-6	ug/L	10/14/2024						<4.00
Butyl benzyl phthalate	7440-66-6	ug/L	4/14/2009	<10					
Butyl benzyl phthalate	7440-66-6	ug/L	5/10/2010	<10					
Butyl benzyl phthalate	7440-66-6	ug/L	3/30/2013			<10	<10		
Butyl benzyl phthalate	7440-66-6	ug/L	10/5/2015	<10					
Butyl benzyl phthalate	7440-66-6	ug/L	3/30/2020	<10.4					
Cadmium	7440-66-6	mg/L	2/27/2008	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	5/12/2008	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	7/13/2008	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	9/14/2008	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	11/17/2008	<0.0005	<0.0005				
Cadmium	7440-66-6	mg/L	4/14/2009	<0.0025					
Cadmium	7440-66-6	mg/L	10/25/2009	<0.0025					
Cadmium	7440-66-6	mg/L	5/10/2010	<0.0004					
Cadmium	7440-66-6	mg/L	8/11/2011			<0.0025			
Cadmium	7440-66-6	mg/L	10/13/2011			<0.0005			
Cadmium	7440-66-6	mg/L	12/5/2011			<0.0005			
Cadmium	7440-66-6	mg/L	4/11/2012	<0.0005		<0.0005	<0.0005		
Cadmium	7440-66-6	mg/L	6/25/2012			<0.0005	<0.0005		
Cadmium	7440-66-6	mg/L	8/1/2012			<0.0005	<0.0005		
Cadmium	7440-66-6	mg/L	10/11/2012	<0.0005		<0.0005	<0.0005		
Cadmium	7440-66-6	mg/L	12/13/2012				<0.0005		
Cadmium	7440-66-6	mg/L	3/30/2013	<0.0005		<0.0005	<0.0005		
Cadmium	7440-66-6	mg/L	10/7/2013	<0.0005		<0.0005	<0.0005		
Cadmium	7440-66-6	mg/L	6/2/2014	<0.0005					
Cadmium	7440-66-6	mg/L	10/15/2014	<0.0005					
Cadmium	7440-66-6	mg/L	4/6/2015	<0.0005					
Cadmium	7440-66-6	mg/L	10/5/2015	<0.0005					
Cadmium	7440-66-6	mg/L	4/4/2016	0.000096J					
Cadmium	7440-66-6	mg/L	10/17/2016	<0.0005					

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Cadmium	7440-66-6	mg/L	4/17/2017	<0.0005					
Cadmium	7440-66-6	mg/L	10/11/2017	<0.0005					
Cadmium	7440-66-6	mg/L	4/25/2018	<0.0005					
Cadmium	7440-66-6	mg/L	10/16/2018	<0.0005					
Cadmium	7440-66-6	mg/L	4/16/2019	<0.0005					
Cadmium	7440-66-6	mg/L	10/1/2019	<0.0001					
Cadmium	7440-66-6	mg/L	3/30/2020	<0.0001					
Cadmium	7440-66-6	mg/L	10/7/2020	<0.0001					
Cadmium	7440-66-6	mg/L	4/13/2021	<0.0008					
Cadmium	7440-66-6	mg/L	10/20/2021	0.0001J	0.0001J	<0.0008	0.0002J	0.0002J	<0.0008
Cadmium	7440-66-6	mg/L	5/2/2022	<0.0008	<0.0008	<0.0008	<0.0008	0.0001J	<0.0008
Cadmium	7440-66-6	mg/L	10/14/2022	<0.0008	<0.0008	<0.0008	<0.0008	0.0008	<0.0008
Cadmium	7440-66-6	mg/L	5/1/2023	<0.0002	<0.0002	<0.0002	<0.0002	0.000138J	<0.0002
Cadmium	7440-66-6	mg/L	10/16/2023	<0.0002	<0.0002	<0.0002	<0.0002	0.000246	<0.0002
Cadmium	7440-66-6	mg/L	4/29/2024	<0.0002	0.000334	<0.0002	<0.0002	0.00015J	<0.0002
Cadmium	7440-66-6	mg/L	10/10/2024	<0.000200		<0.000200		0.000359	
Cadmium	7440-66-6	mg/L	10/9/2024		0.000166J		<0.000200		
Cadmium	7440-66-6	mg/L	10/14/2024						<0.000200
Calcium	7440-66-6	mg/L	6/2/2014	131; 135					
Calcium	7440-66-6	mg/L	10/15/2014	145		62.4			
Carbon Disulfide	7440-66-6	ug/L	2/27/2008	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	5/12/2008	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	7/13/2008	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	9/14/2008	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	11/17/2008	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	4/14/2009	<1					
Carbon Disulfide	7440-66-6	ug/L	10/25/2009	<5					
Carbon Disulfide	7440-66-6	ug/L	5/10/2010	<1					
Carbon Disulfide	7440-66-6	ug/L	11/1/2010	<1					
Carbon Disulfide	7440-66-6	ug/L	8/11/2011			<1			
Carbon Disulfide	7440-66-6	ug/L	10/13/2011	<1		<1			
Carbon Disulfide	7440-66-6	ug/L	12/5/2011			<1			
Carbon Disulfide	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
Carbon Disulfide	7440-66-6	ug/L	6/25/2012			<1	<1		
Carbon Disulfide	7440-66-6	ug/L	8/1/2012			<1	<1		
Carbon Disulfide	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
Carbon Disulfide	7440-66-6	ug/L	12/13/2012				<1		
Carbon Disulfide	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
Carbon Disulfide	7440-66-6	ug/L	10/7/2013				<1		
Carbon Disulfide	7440-66-6	ug/L	6/2/2014	<1					
Carbon Disulfide	7440-66-6	ug/L	10/15/2014	<1					
Carbon Disulfide	7440-66-6	ug/L	4/6/2015	<1					
Carbon Disulfide	7440-66-6	ug/L	10/5/2015	<1					
Carbon Disulfide	7440-66-6	ug/L	4/4/2016	<1					
Carbon Disulfide	7440-66-6	ug/L	10/17/2016	<1					
Carbon Disulfide	7440-66-6	ug/L	4/17/2017	<1					
Carbon Disulfide	7440-66-6	ug/L	10/11/2017	<1					
Carbon Disulfide	7440-66-6	ug/L	4/25/2018	<1					
Carbon Disulfide	7440-66-6	ug/L	10/16/2018	<1					
Carbon Disulfide	7440-66-6	ug/L	4/16/2019	<1					
Carbon Disulfide	7440-66-6	ug/L	10/1/2019	<1					
Carbon Disulfide	7440-66-6	ug/L	3/30/2020	<1					
Carbon Disulfide	7440-66-6	ug/L	10/7/2020	<1					
Carbon Disulfide	7440-66-6	ug/L	4/13/2021	<1					
Carbon Disulfide	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Carbon Disulfide	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
Carbon disulfide	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
Carbon disulfide	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
Carbon disulfide	7440-66-6	ug/L	10/14/2024						<1.00
Carbon Tetrachloride	7440-66-6	ug/L	2/27/2008	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	5/12/2008	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	7/13/2008	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	9/14/2008	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	11/17/2008	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/14/2009	<2					
Carbon Tetrachloride	7440-66-6	ug/L	10/25/2009	<2					
Carbon Tetrachloride	7440-66-6	ug/L	5/10/2010	<4					
Carbon Tetrachloride	7440-66-6	ug/L	11/1/2010	<5					
Carbon Tetrachloride	7440-66-6	ug/L	8/11/2011			<2			
Carbon Tetrachloride	7440-66-6	ug/L	10/13/2011	<2		<2			
Carbon Tetrachloride	7440-66-6	ug/L	12/5/2011			<2			
Carbon Tetrachloride	7440-66-6	ug/L	4/11/2012	<2		<2	<2		
Carbon Tetrachloride	7440-66-6	ug/L	6/25/2012			<2	<2		
Carbon Tetrachloride	7440-66-6	ug/L	8/1/2012			<2	<2		
Carbon Tetrachloride	7440-66-6	ug/L	10/11/2012	<2		<2	<2		
Carbon Tetrachloride	7440-66-6	ug/L	12/13/2012				<2		
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2013	7.84		<2	<2		
Carbon Tetrachloride	7440-66-6	ug/L	10/7/2013				<2		
Carbon Tetrachloride	7440-66-6	ug/L	6/2/2014	<2					
Carbon Tetrachloride	7440-66-6	ug/L	10/15/2014	<2					
Carbon Tetrachloride	7440-66-6	ug/L	4/6/2015	<2					
Carbon Tetrachloride	7440-66-6	ug/L	10/5/2015	<2					
Carbon Tetrachloride	7440-66-6	ug/L	4/4/2016	<2					
Carbon Tetrachloride	7440-66-6	ug/L	10/17/2016	<2					
Carbon Tetrachloride	7440-66-6	ug/L	4/17/2017	<2					
Carbon Tetrachloride	7440-66-6	ug/L	10/11/2017	<2					
Carbon Tetrachloride	7440-66-6	ug/L	4/25/2018	<2					
Carbon Tetrachloride	7440-66-6	ug/L	10/16/2018	<2					
Carbon Tetrachloride	7440-66-6	ug/L	4/16/2019	<2					
Carbon Tetrachloride	7440-66-6	ug/L	10/1/2019	<2					
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2020	<2					
Carbon Tetrachloride	7440-66-6	ug/L	10/7/2020	<2					
Carbon Tetrachloride	7440-66-6	ug/L	4/13/2021	<1					
Carbon Tetrachloride	7440-66-6	ug/L	10/20/2021	<1	<1	<1	0.4J	<1	<1
Carbon Tetrachloride	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	7440-66-6	ug/L	10/14/2022	0.4J	<1	<1	<1	<1	<1
Carbon Tetrachloride	7440-66-6	ug/L	5/1/2023	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/16/2023	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/29/2024	<2	<2	<2	<2	<2	<2
Carbon tetrachloride	7440-66-6	ug/L	10/10/2024	<2.00		<2.00		<2.00	
Carbon tetrachloride	7440-66-6	ug/L	10/9/2024		<2.00		<2.00		
Carbon tetrachloride	7440-66-6	ug/L	10/14/2024						<2.00
Carbonate	7440-66-6	mg/L	6/2/2014	<5					
Carbonate	7440-66-6	mg/L	10/15/2014	<5		<5			
Chlordane	7440-66-6	ug/L	4/14/2009	<2					
Chlordane	7440-66-6	ug/L	5/10/2010	<2					
Chlordane	7440-66-6	ug/L	3/30/2013			<2	<2		
Chlordane	7440-66-6	ug/L	10/5/2015	<2					
Chlordane	7440-66-6	ug/L	3/30/2020	<2.08					
Chloride	7440-66-6	mg/L	6/2/2014	10.5					

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Chloride	7440-66-6	mg/L	10/15/2014	14.8		15.7			
Chlorobenzene	7440-66-6	ug/L	2/27/2008	<1	<1				
Chlorobenzene	7440-66-6	ug/L	5/12/2008	<1	<1				
Chlorobenzene	7440-66-6	ug/L	7/13/2008	<1	<1				
Chlorobenzene	7440-66-6	ug/L	9/14/2008	<1	<1				
Chlorobenzene	7440-66-6	ug/L	11/17/2008	<1	<1				
Chlorobenzene	7440-66-6	ug/L	4/14/2009	<1					
Chlorobenzene	7440-66-6	ug/L	10/25/2009	<2					
Chlorobenzene	7440-66-6	ug/L	5/10/2010	<1					
Chlorobenzene	7440-66-6	ug/L	11/1/2010	<1					
Chlorobenzene	7440-66-6	ug/L	8/11/2011			<1			
Chlorobenzene	7440-66-6	ug/L	10/13/2011	<1		<1			
Chlorobenzene	7440-66-6	ug/L	12/5/2011			<1			
Chlorobenzene	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
Chlorobenzene	7440-66-6	ug/L	6/25/2012			<1	<1		
Chlorobenzene	7440-66-6	ug/L	8/1/2012			<1	<1		
Chlorobenzene	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
Chlorobenzene	7440-66-6	ug/L	12/13/2012				<1		
Chlorobenzene	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
Chlorobenzene	7440-66-6	ug/L	10/7/2013				<1		
Chlorobenzene	7440-66-6	ug/L	6/2/2014	<1					
Chlorobenzene	7440-66-6	ug/L	10/15/2014	<1					
Chlorobenzene	7440-66-6	ug/L	4/6/2015	<1					
Chlorobenzene	7440-66-6	ug/L	10/5/2015	<1					
Chlorobenzene	7440-66-6	ug/L	4/4/2016	<1					
Chlorobenzene	7440-66-6	ug/L	10/17/2016	<1					
Chlorobenzene	7440-66-6	ug/L	4/17/2017	<1					
Chlorobenzene	7440-66-6	ug/L	10/11/2017	<1					
Chlorobenzene	7440-66-6	ug/L	4/25/2018	<1					
Chlorobenzene	7440-66-6	ug/L	10/16/2018	<1					
Chlorobenzene	7440-66-6	ug/L	4/16/2019	<1					
Chlorobenzene	7440-66-6	ug/L	10/1/2019	<1					
Chlorobenzene	7440-66-6	ug/L	3/30/2020	<1					
Chlorobenzene	7440-66-6	ug/L	10/7/2020	<1					
Chlorobenzene	7440-66-6	ug/L	4/13/2021	<1					
Chlorobenzene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
Chlorobenzene	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
Chlorobenzene	7440-66-6	ug/L	10/14/2024						<1.00
Chlorobenzilate	7440-66-6	ug/L	4/14/2009	<10					
Chlorobenzilate	7440-66-6	ug/L	5/10/2010	<10					
Chlorobenzilate	7440-66-6	ug/L	3/30/2013			<10	<10		
Chlorobenzilate	7440-66-6	ug/L	10/5/2015	<10					
Chlorobenzilate	7440-66-6	ug/L	3/30/2020	<10.4					
Chlorodibromomethane	7440-66-6	ug/L	2/27/2008	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	5/12/2008	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	7/13/2008	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	9/14/2008	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	11/17/2008	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	4/14/2009	<5					
Chlorodibromomethane	7440-66-6	ug/L	10/25/2009	<5					
Chlorodibromomethane	7440-66-6	ug/L	5/10/2010	<10					

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Chlorodibromomethane	7440-66-6	ug/L	11/1/2010	<5					
Chlorodibromomethane	7440-66-6	ug/L	8/11/2011			<5			
Chlorodibromomethane	7440-66-6	ug/L	10/13/2011	<5		<5			
Chlorodibromomethane	7440-66-6	ug/L	12/5/2011			<5			
Chlorodibromomethane	7440-66-6	ug/L	4/11/2012	<5		<5	<5		
Chlorodibromomethane	7440-66-6	ug/L	6/25/2012			<5	<5		
Chlorodibromomethane	7440-66-6	ug/L	8/1/2012			<5	<5		
Chlorodibromomethane	7440-66-6	ug/L	10/11/2012	<5		<5	<5		
Chlorodibromomethane	7440-66-6	ug/L	12/13/2012				<5		
Chlorodibromomethane	7440-66-6	ug/L	3/30/2013	<5		<5	<5		
Chlorodibromomethane	7440-66-6	ug/L	10/7/2013				<5		
Chlorodibromomethane	7440-66-6	ug/L	6/2/2014	<5					
Chlorodibromomethane	7440-66-6	ug/L	10/15/2014	<5					
Chlorodibromomethane	7440-66-6	ug/L	4/6/2015	<5					
Chlorodibromomethane	7440-66-6	ug/L	10/5/2015	<5					
Chlorodibromomethane	7440-66-6	ug/L	4/4/2016	<5					
Chlorodibromomethane	7440-66-6	ug/L	10/17/2016	<5					
Chlorodibromomethane	7440-66-6	ug/L	4/17/2017	<5					
Chlorodibromomethane	7440-66-6	ug/L	10/11/2017	<5					
Chlorodibromomethane	7440-66-6	ug/L	4/25/2018	<5					
Chlorodibromomethane	7440-66-6	ug/L	10/16/2018	<5					
Chlorodibromomethane	7440-66-6	ug/L	4/16/2019	<5					
Chlorodibromomethane	7440-66-6	ug/L	10/1/2019	<5					
Chlorodibromomethane	7440-66-6	ug/L	3/30/2020	<5					
Chlorodibromomethane	7440-66-6	ug/L	10/7/2020	<5					
Chlorodibromomethane	7440-66-6	ug/L	4/13/2021	<1					
Chlorodibromomethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/10/2024	<5.00		<5.00		<5.00	
Chlorodibromomethane	7440-66-6	ug/L	10/9/2024		<5.00		<5.00		
Chlorodibromomethane	7440-66-6	ug/L	10/14/2024						<5.00
Chloroethane	7440-66-6	ug/L	2/27/2008	<4	<4				
Chloroethane	7440-66-6	ug/L	5/12/2008	<4	<4				
Chloroethane	7440-66-6	ug/L	7/13/2008	<4	<4				
Chloroethane	7440-66-6	ug/L	9/14/2008	<4	<4				
Chloroethane	7440-66-6	ug/L	11/17/2008	<4	<4				
Chloroethane	7440-66-6	ug/L	4/14/2009	<4					
Chloroethane	7440-66-6	ug/L	10/25/2009	<4					
Chloroethane	7440-66-6	ug/L	5/10/2010	<4					
Chloroethane	7440-66-6	ug/L	11/1/2010	<4					
Chloroethane	7440-66-6	ug/L	8/11/2011			<4			
Chloroethane	7440-66-6	ug/L	10/13/2011	<4		<4			
Chloroethane	7440-66-6	ug/L	12/5/2011			<4			
Chloroethane	7440-66-6	ug/L	4/11/2012	<4		<4	<4		
Chloroethane	7440-66-6	ug/L	6/25/2012			<4	<4		
Chloroethane	7440-66-6	ug/L	8/1/2012			<4	<4		
Chloroethane	7440-66-6	ug/L	10/11/2012	<4		<4	<4		
Chloroethane	7440-66-6	ug/L	12/13/2012				<4		
Chloroethane	7440-66-6	ug/L	3/30/2013	<4		<4	<4		
Chloroethane	7440-66-6	ug/L	10/7/2013				<4		
Chloroethane	7440-66-6	ug/L	6/2/2014	<4					
Chloroethane	7440-66-6	ug/L	10/15/2014	<4					
Chloroethane	7440-66-6	ug/L	4/6/2015	<4					

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Chloroethane	7440-66-6	ug/L	10/5/2015	<4					
Chloroethane	7440-66-6	ug/L	4/4/2016	<4					
Chloroethane	7440-66-6	ug/L	10/17/2016	<4					
Chloroethane	7440-66-6	ug/L	4/17/2017	<4					
Chloroethane	7440-66-6	ug/L	10/11/2017	<4					
Chloroethane	7440-66-6	ug/L	4/25/2018	<4					
Chloroethane	7440-66-6	ug/L	10/16/2018	<4					
Chloroethane	7440-66-6	ug/L	4/16/2019	<4					
Chloroethane	7440-66-6	ug/L	10/1/2019	<4					
Chloroethane	7440-66-6	ug/L	3/30/2020	<4					
Chloroethane	7440-66-6	ug/L	10/7/2020	<4					
Chloroethane	7440-66-6	ug/L	4/13/2021	<1					
Chloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	5/1/2023	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/16/2023	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/29/2024	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/10/2024	<4.00		<4.00		<4.00	
Chloroethane	7440-66-6	ug/L	10/9/2024		<4.00		<4.00		
Chloroethane	7440-66-6	ug/L	10/14/2024						<4.00
Chloroform	7440-66-6	ug/L	2/27/2008	<1	<1				
Chloroform	7440-66-6	ug/L	5/12/2008	<1	<1				
Chloroform	7440-66-6	ug/L	7/13/2008	<1	<1				
Chloroform	7440-66-6	ug/L	9/14/2008	<1	<1				
Chloroform	7440-66-6	ug/L	11/17/2008	<1	<1				
Chloroform	7440-66-6	ug/L	4/14/2009	<1					
Chloroform	7440-66-6	ug/L	10/25/2009	<2					
Chloroform	7440-66-6	ug/L	5/10/2010	<1					
Chloroform	7440-66-6	ug/L	11/1/2010	<1					
Chloroform	7440-66-6	ug/L	8/11/2011			<1			
Chloroform	7440-66-6	ug/L	10/13/2011	<1		<1			
Chloroform	7440-66-6	ug/L	12/5/2011			<1			
Chloroform	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
Chloroform	7440-66-6	ug/L	6/25/2012			<1	<1		
Chloroform	7440-66-6	ug/L	8/1/2012			<1	<1		
Chloroform	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
Chloroform	7440-66-6	ug/L	12/13/2012				<1		
Chloroform	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
Chloroform	7440-66-6	ug/L	10/7/2013				<1		
Chloroform	7440-66-6	ug/L	6/2/2014	<1					
Chloroform	7440-66-6	ug/L	10/15/2014	<1					
Chloroform	7440-66-6	ug/L	4/6/2015	<1					
Chloroform	7440-66-6	ug/L	10/5/2015	<1					
Chloroform	7440-66-6	ug/L	4/4/2016	<1					
Chloroform	7440-66-6	ug/L	10/17/2016	<1					
Chloroform	7440-66-6	ug/L	4/17/2017	<1					
Chloroform	7440-66-6	ug/L	10/11/2017	<1					
Chloroform	7440-66-6	ug/L	4/25/2018	<1					
Chloroform	7440-66-6	ug/L	10/16/2018	<3					
Chloroform	7440-66-6	ug/L	4/16/2019	<3					
Chloroform	7440-66-6	ug/L	10/1/2019	<3					
Chloroform	7440-66-6	ug/L	3/30/2020	<3					
Chloroform	7440-66-6	ug/L	10/7/2020	<3					
Chloroform	7440-66-6	ug/L	4/13/2021	<1					
Chloroform	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Chloroform	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	5/1/2023	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	10/16/2023	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	4/29/2024	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	10/10/2024	<3.00		<3.00		<3.00	
Chloroform	7440-66-6	ug/L	10/9/2024		<3.00		<3.00		
Chloroform	7440-66-6	ug/L	10/14/2024						<3.00
Chloromethane	7440-66-6	ug/L	2/27/2008	<3	<3				
Chloromethane	7440-66-6	ug/L	5/12/2008	<3	<3				
Chloromethane	7440-66-6	ug/L	7/13/2008	<3	<3				
Chloromethane	7440-66-6	ug/L	9/14/2008	<3	<3				
Chloromethane	7440-66-6	ug/L	11/17/2008	<3	<3				
Chloromethane	7440-66-6	ug/L	4/14/2009	<3					
Chloromethane	7440-66-6	ug/L	10/25/2009	<3					
Chloromethane	7440-66-6	ug/L	5/10/2010	<3					
Chloromethane	7440-66-6	ug/L	11/1/2010	<3					
Chloromethane	7440-66-6	ug/L	8/11/2011			<3			
Chloromethane	7440-66-6	ug/L	10/13/2011	<3		<3			
Chloromethane	7440-66-6	ug/L	12/5/2011			<3			
Chloromethane	7440-66-6	ug/L	4/11/2012	<3		<3	<3		
Chloromethane	7440-66-6	ug/L	6/25/2012			<3	<3		
Chloromethane	7440-66-6	ug/L	8/1/2012			<3	<3		
Chloromethane	7440-66-6	ug/L	10/11/2012	<3		<3	<3		
Chloromethane	7440-66-6	ug/L	12/13/2012				<3		
Chloromethane	7440-66-6	ug/L	3/30/2013	<3		<3	<3		
Chloromethane	7440-66-6	ug/L	10/7/2013				<3		
Chloromethane	7440-66-6	ug/L	6/2/2014	<3					
Chloromethane	7440-66-6	ug/L	10/15/2014	<3					
Chloromethane	7440-66-6	ug/L	4/6/2015	<3					
Chloromethane	7440-66-6	ug/L	10/5/2015	<3					
Chloromethane	7440-66-6	ug/L	4/4/2016	<3					
Chloromethane	7440-66-6	ug/L	10/17/2016	<3					
Chloromethane	7440-66-6	ug/L	4/17/2017	<3					
Chloromethane	7440-66-6	ug/L	10/11/2017	<3					
Chloromethane	7440-66-6	ug/L	4/25/2018	<3					
Chloromethane	7440-66-6	ug/L	10/16/2018	<3					
Chloromethane	7440-66-6	ug/L	4/16/2019	<3					
Chloromethane	7440-66-6	ug/L	10/1/2019	<3					
Chloromethane	7440-66-6	ug/L	3/30/2020	<3					
Chloromethane	7440-66-6	ug/L	10/7/2020	<3					
Chloromethane	7440-66-6	ug/L	4/13/2021	<1					
Chloromethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Chloromethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Chloromethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Chloromethane	7440-66-6	ug/L	5/1/2023	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/16/2023	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/29/2024	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/10/2024	<3.00		<3.00		<3.00	
Chloromethane	7440-66-6	ug/L	10/9/2024		<3.00		<3.00		
Chloromethane	7440-66-6	ug/L	10/14/2024						<3.00
Chloroprene	7440-66-6	ug/L	4/14/2009	<1					
Chloroprene	7440-66-6	ug/L	5/10/2010	<1					
Chloroprene	7440-66-6	ug/L	3/30/2013			<1	<1		
Chloroprene	7440-66-6	ug/L	10/5/2015	<1					
Chloroprene	7440-66-6	ug/L	3/30/2020	<1					
Chromium	7440-66-6	mg/L	2/27/2008	<0.1	<0.1				
Chromium	7440-66-6	mg/L	5/12/2008	<0.1	<0.1				

Table 9A
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Chromium	7440-66-6	mg/L	7/13/2008	<0.1	<0.1				
Chromium	7440-66-6	mg/L	9/14/2008	<0.1	<0.1				
Chromium	7440-66-6	mg/L	11/17/2008	<0.02	<0.02				
Chromium	7440-66-6	mg/L	4/14/2009	<0.1					
Chromium	7440-66-6	mg/L	10/25/2009	<0.1					
Chromium	7440-66-6	mg/L	5/10/2010	<0.02					
Chromium	7440-66-6	mg/L	8/11/2011			<0.1			
Chromium	7440-66-6	mg/L	10/13/2011			<0.02			
Chromium	7440-66-6	mg/L	12/5/2011			<0.02			
Chromium	7440-66-6	mg/L	4/11/2012	<0.02		<0.02	<0.02		
Chromium	7440-66-6	mg/L	6/25/2012			<0.02	<0.02		
Chromium	7440-66-6	mg/L	8/1/2012			<0.02	<0.02		
Chromium	7440-66-6	mg/L	10/11/2012	<0.02		<0.02	<0.02		
Chromium	7440-66-6	mg/L	12/13/2012				<0.02		
Chromium	7440-66-6	mg/L	3/30/2013	<0.02		<0.02	<0.02		
Chromium	7440-66-6	mg/L	10/7/2013	<0.02		<0.02	<0.02		
Chromium	7440-66-6	mg/L	6/2/2014	<0.02					
Chromium	7440-66-6	mg/L	10/15/2014	<0.02					
Chromium	7440-66-6	mg/L	4/6/2015	<0.005					
Chromium	7440-66-6	mg/L	10/5/2015	<0.005					
Chromium	7440-66-6	mg/L	4/4/2016	<0.005					
Chromium	7440-66-6	mg/L	10/17/2016	<0.005					
Chromium	7440-66-6	mg/L	4/17/2017	<0.005					
Chromium	7440-66-6	mg/L	10/11/2017	<0.005					
Chromium	7440-66-6	mg/L	4/25/2018	<0.005					
Chromium	7440-66-6	mg/L	10/16/2018	<0.005					
Chromium	7440-66-6	mg/L	4/16/2019	<0.005					
Chromium	7440-66-6	mg/L	10/1/2019	<0.005					
Chromium	7440-66-6	mg/L	3/30/2020	<0.005					
Chromium	7440-66-6	mg/L	10/7/2020	<0.005					
Chromium	7440-66-6	mg/L	4/13/2021	<0.008					
Chromium	7440-66-6	mg/L	10/20/2021	<0.008	<0.008	<0.008	0.0006J	<0.008	<0.008
Chromium	7440-66-6	mg/L	5/2/2022	0.001J; 0.0006J	<0.008	<0.008	<0.008	<0.008	<0.008
Chromium	7440-66-6	mg/L	10/14/2022	<0.008	<0.008	<0.008	<0.008	0.0018J	<0.008
Chromium	7440-66-6	mg/L	5/1/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	10/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	4/29/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	10/10/2024	<0.00500		<0.00500		<0.00500	
Chromium	7440-66-6	mg/L	10/9/2024		<0.00500		0.00607		
Chromium	7440-66-6	mg/L	10/14/2024						<0.00500
Chrysene	7440-66-6	ug/L	4/14/2009	<10					
Chrysene	7440-66-6	ug/L	5/10/2010	<10					
Chrysene	7440-66-6	ug/L	3/30/2013			<10	<10		
Chrysene	7440-66-6	ug/L	10/5/2015	<10					
Chrysene	7440-66-6	ug/L	3/30/2020	<10.4					
cis-1,2-Dichloroethene	7440-66-6	ug/L	2/27/2008	<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/12/2008	<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	7/13/2008	<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	9/14/2008	<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	11/17/2008	<1	<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/14/2009	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/25/2009	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/10/2010	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	11/1/2010	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	8/11/2011			<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/13/2011	<1		<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	12/5/2011			<1			

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
cis-1,2-Dichloroethene	7440-66-6	ug/L	6/25/2012			<1	<1		
cis-1,2-Dichloroethene	7440-66-6	ug/L	8/1/2012			<1	<1		
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
cis-1,2-Dichloroethene	7440-66-6	ug/L	12/13/2012				<1		
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2013				<1		
cis-1,2-Dichloroethene	7440-66-6	ug/L	6/2/2014	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/15/2014	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/6/2015	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/5/2015	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2016	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/17/2016	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/17/2017	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2017	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/25/2018	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2018	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/16/2019	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/1/2019	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2020	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2020	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/13/2021	<1					
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/2/2022	<1; 0.6J	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2024						<1.00
cis-1,3-Dichloropropene	7440-66-6	ug/L	2/27/2008	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/12/2008	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/13/2008	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	9/14/2008	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	11/17/2008	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/14/2009	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/25/2009	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/10/2010	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	11/1/2010	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	8/11/2011			<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/13/2011	<5		<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	12/5/2011			<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/11/2012	<5		<5	<5		
cis-1,3-Dichloropropene	7440-66-6	ug/L	6/25/2012			<5	<5		
cis-1,3-Dichloropropene	7440-66-6	ug/L	8/1/2012			<5	<5		
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2012	<5		<5	<5		
cis-1,3-Dichloropropene	7440-66-6	ug/L	12/13/2012				<5		
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2013	<5		<5	<5		
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2013				<5		
cis-1,3-Dichloropropene	7440-66-6	ug/L	6/2/2014	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/15/2014	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/6/2015	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/5/2015	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2016	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/17/2016	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/17/2017	<5					

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2017	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/25/2018	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2018	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/16/2019	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/1/2019	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2020	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2020	<5					
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/13/2021	<1					
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/10/2024	<5.00		<5.00		<5.00	
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/9/2024		<5.00		<5.00		
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/14/2024						<5.00
Cobalt	7440-66-6	mg/L	2/27/2008	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	5/12/2008	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	7/13/2008	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	9/14/2008	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	11/17/2008	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	4/14/2009	<0.02					
Cobalt	7440-66-6	mg/L	10/25/2009	<0.02					
Cobalt	7440-66-6	mg/L	5/10/2010	<0.02					
Cobalt	7440-66-6	mg/L	11/1/2010	<0.02					
Cobalt	7440-66-6	mg/L	8/11/2011			<0.02			
Cobalt	7440-66-6	mg/L	10/13/2011			<0.02			
Cobalt	7440-66-6	mg/L	12/5/2011			0.00415			
Cobalt	7440-66-6	mg/L	2/6/2012			<0.02			
Cobalt	7440-66-6	mg/L	4/11/2012	<0.02		<0.02	<0.02		
Cobalt	7440-66-6	mg/L	6/25/2012			<0.02	<0.02		
Cobalt	7440-66-6	mg/L	8/1/2012			<0.02	<0.02		
Cobalt	7440-66-6	mg/L	10/11/2012	0.00417		0.00173	<0.02		
Cobalt	7440-66-6	mg/L	12/13/2012				<0.00155		
Cobalt	7440-66-6	mg/L	3/30/2013	0.00223		<0.00132	0.00173		
Cobalt	7440-66-6	mg/L	10/7/2013	<0.007		<0.007	<0.007		
Cobalt	7440-66-6	mg/L	6/2/2014	<0.00241					
Cobalt	7440-66-6	mg/L	10/15/2014	<0.00241					
Cobalt	7440-66-6	mg/L	4/6/2015	0.000117J		0.000073J			
Cobalt	7440-66-6	mg/L	10/5/2015	0.000104J		0.000087J			
Cobalt	7440-66-6	mg/L	4/4/2016	0.000115J		0.000162J			
Cobalt	7440-66-6	mg/L	10/17/2016	0.000082J		0.000142J			
Cobalt	7440-66-6	mg/L	4/17/2017	0.000073J; 0.000064J		0.000053J			
Cobalt	7440-66-6	mg/L	10/11/2017	0.00006J		0.000136J			
Cobalt	7440-66-6	mg/L	4/25/2018	0.0002J		<0.0005			
Cobalt	7440-66-6	mg/L	10/16/2018	<0.001		0.000123J			
Cobalt	7440-66-6	mg/L	4/16/2019	<0.0005; 0.000106J		0.000104J			
Cobalt	7440-66-6	mg/L	10/1/2019	<0.0005		<0.0005			0.000622
Cobalt	7440-66-6	mg/L	3/30/2020	<0.0005		0.000106J			0.00121
Cobalt	7440-66-6	mg/L	10/7/2020	<0.0005		<0.0005			0.00255
Cobalt	7440-66-6	mg/L	4/13/2021	<0.0004		<0.0004			0.0009
Cobalt	7440-66-6	mg/L	10/20/2021	0.0001J	<0.0004	0.0002J	0.0016	0.0004	0.002
Cobalt	7440-66-6	mg/L	5/2/2022	<0.0004; 0.0004	<0.0004	0.0003J	<0.0004	0.0003J	0.0006
Cobalt	7440-66-6	mg/L	10/14/2022	<0.0004	0.0016J	0.0062	0.0029	0.0189	0.0009
Cobalt	7440-66-6	mg/L	5/1/2023	0.000216J	<0.0005	<0.0005	<0.0005	<0.0005	0.0003J
Cobalt	7440-66-6	mg/L	10/16/2023	<0.0005	<0.0005	<0.0005	<0.0005	0.00109	0.000393J

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Cobalt	7440-66-6	mg/L	4/29/2024	0.000348J	0.000299J	<0.0005	<0.0005	0.000179J	0.000273J
Cobalt	7440-66-6	mg/L	10/10/2024	<0.000500		<0.000500		0.000490J	
Cobalt	7440-66-6	mg/L	10/9/2024		<0.000500		0.000318J		
Cobalt	7440-66-6	mg/L	10/14/2024						0.000299J
Copper	7440-66-6	mg/L	2/27/2008	0.028	0.029				
Copper	7440-66-6	mg/L	5/12/2008	<0.025	0.037				
Copper	7440-66-6	mg/L	7/13/2008	<0.025	<0.025				
Copper	7440-66-6	mg/L	9/14/2008	<0.025	<0.025				
Copper	7440-66-6	mg/L	11/17/2008	<0.02					
Copper	7440-66-6	mg/L	4/14/2009	<0.025					
Copper	7440-66-6	mg/L	10/25/2009	<0.025					
Copper	7440-66-6	mg/L	5/10/2010	<0.02					
Copper	7440-66-6	mg/L	8/11/2011			<0.025			
Copper	7440-66-6	mg/L	10/13/2011			<0.02			
Copper	7440-66-6	mg/L	12/5/2011			<0.02			
Copper	7440-66-6	mg/L	4/11/2012	<0.02		<0.02	<0.02		
Copper	7440-66-6	mg/L	6/25/2012			<0.02	<0.02		
Copper	7440-66-6	mg/L	8/1/2012			<0.02	<0.02		
Copper	7440-66-6	mg/L	10/11/2012	<0.02		<0.02	<0.02		
Copper	7440-66-6	mg/L	12/13/2012				<0.02		
Copper	7440-66-6	mg/L	3/30/2013	<0.02		<0.02	<0.02		
Copper	7440-66-6	mg/L	10/7/2013	<0.02		<0.02	<0.02		
Copper	7440-66-6	mg/L	6/2/2014	<0.02					
Copper	7440-66-6	mg/L	10/15/2014	<0.02					
Copper	7440-66-6	mg/L	4/6/2015	<0.002					
Copper	7440-66-6	mg/L	10/5/2015	<0.002					
Copper	7440-66-6	mg/L	4/4/2016	<0.005					
Copper	7440-66-6	mg/L	10/17/2016	<0.005					
Copper	7440-66-6	mg/L	4/17/2017	<0.005					
Copper	7440-66-6	mg/L	10/11/2017	<0.005					
Copper	7440-66-6	mg/L	4/25/2018	<0.005					
Copper	7440-66-6	mg/L	10/16/2018	0.000772J					
Copper	7440-66-6	mg/L	4/16/2019	<0.005					
Copper	7440-66-6	mg/L	10/1/2019	<0.005					
Copper	7440-66-6	mg/L	3/30/2020	<0.005					
Copper	7440-66-6	mg/L	10/7/2020	<0.005					
Copper	7440-66-6	mg/L	4/13/2021	<0.004					
Copper	7440-66-6	mg/L	10/20/2021	<0.004	<0.004	0.0016J	0.0031J	<0.004	0.0013J
Copper	7440-66-6	mg/L	5/2/2022	<0.004	0.0012J	<0.004	0.0011J	<0.004	0.0022J
Copper	7440-66-6	mg/L	10/14/2022	<0.004	<0.004	0.001J	0.0011J	0.0038J	0.0019J
Copper	7440-66-6	mg/L	5/1/2023	<0.005	0.00222J; <0.005	<0.005	<0.005	0.00369J	0.00196J
Copper	7440-66-6	mg/L	10/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	7440-66-6	mg/L	4/29/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	7440-66-6	mg/L	10/10/2024	<0.00500		<0.00500		<0.00500	
Copper	7440-66-6	mg/L	10/9/2024		<0.00500		<0.00500		
Copper	7440-66-6	mg/L	10/14/2024						<0.00500
Cyanide	7440-66-6	mg/L	4/14/2009	<0.01					
Cyanide	7440-66-6	mg/L	5/10/2010	<0.01					
Cyanide	7440-66-6	mg/L	3/30/2013			<0.01	<0.01		
Cyanide	7440-66-6	mg/L	10/5/2015	<0.01					
Cyanide	7440-66-6	mg/L	3/30/2020	<0.01					
Delta-BHC	7440-66-6	ug/L	4/14/2009	<0.032					
Delta-BHC	7440-66-6	ug/L	5/10/2010	<0.032					
Delta-BHC	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Delta-BHC	7440-66-6	ug/L	10/5/2015	<0.032					
Delta-BHC	7440-66-6	ug/L	3/30/2020	0.0028J					
Diallate	7440-66-6	ug/L	4/14/2009	<10					

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Diallate	7440-66-6	ug/L	5/10/2010	<10					
Diallate	7440-66-6	ug/L	3/30/2013			<10	<10		
Diallate	7440-66-6	ug/L	10/5/2015	<10					
Diallate	7440-66-6	ug/L	3/30/2020	<10.4					
Dibenz [a,h] anthracene	7440-66-6	ug/L	4/14/2009	<10					
Dibenz [a,h] anthracene	7440-66-6	ug/L	5/10/2010	<10					
Dibenz [a,h] anthracene	7440-66-6	ug/L	3/30/2013			<10	<10		
Dibenz [a,h] anthracene	7440-66-6	ug/L	10/5/2015	<10					
Dibenz [a,h] anthracene	7440-66-6	ug/L	3/30/2020	<10.4					
Dibenzofuran	7440-66-6	ug/L	4/14/2009	<10					
Dibenzofuran	7440-66-6	ug/L	5/10/2010	<10					
Dibenzofuran	7440-66-6	ug/L	3/30/2013			<10	<10		
Dibenzofuran	7440-66-6	ug/L	10/5/2015	<10					
Dibenzofuran	7440-66-6	ug/L	3/30/2020	<10.4					
Dibromomethane	7440-66-6	ug/L	2/27/2008	<1	<1				
Dibromomethane	7440-66-6	ug/L	5/12/2008	<1	<1				
Dibromomethane	7440-66-6	ug/L	7/13/2008	<1	<1				
Dibromomethane	7440-66-6	ug/L	9/14/2008	<1	<1				
Dibromomethane	7440-66-6	ug/L	11/17/2008	<1	<1				
Dibromomethane	7440-66-6	ug/L	4/14/2009	<1					
Dibromomethane	7440-66-6	ug/L	10/25/2009	<2					
Dibromomethane	7440-66-6	ug/L	5/10/2010	<1					
Dibromomethane	7440-66-6	ug/L	11/1/2010	<1					
Dibromomethane	7440-66-6	ug/L	8/11/2011			<1			
Dibromomethane	7440-66-6	ug/L	10/13/2011	<1		<1			
Dibromomethane	7440-66-6	ug/L	12/5/2011			<1			
Dibromomethane	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
Dibromomethane	7440-66-6	ug/L	6/25/2012			<1	<1		
Dibromomethane	7440-66-6	ug/L	8/1/2012			<1	<1		
Dibromomethane	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
Dibromomethane	7440-66-6	ug/L	12/13/2012				<1		
Dibromomethane	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
Dibromomethane	7440-66-6	ug/L	10/7/2013				<1		
Dibromomethane	7440-66-6	ug/L	6/2/2014	<1					
Dibromomethane	7440-66-6	ug/L	10/15/2014	<1					
Dibromomethane	7440-66-6	ug/L	4/6/2015	<1					
Dibromomethane	7440-66-6	ug/L	10/5/2015	<1					
Dibromomethane	7440-66-6	ug/L	4/4/2016	<1					
Dibromomethane	7440-66-6	ug/L	10/17/2016	<1					
Dibromomethane	7440-66-6	ug/L	4/17/2017	<1					
Dibromomethane	7440-66-6	ug/L	10/11/2017	<1					
Dibromomethane	7440-66-6	ug/L	4/25/2018	<1					
Dibromomethane	7440-66-6	ug/L	10/16/2018	<1					
Dibromomethane	7440-66-6	ug/L	4/16/2019	<1					
Dibromomethane	7440-66-6	ug/L	10/1/2019	<1					
Dibromomethane	7440-66-6	ug/L	3/30/2020	<1					
Dibromomethane	7440-66-6	ug/L	10/7/2020	<1					
Dibromomethane	7440-66-6	ug/L	4/13/2021	<1					
Dibromomethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
Dibromomethane	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
Dibromomethane	7440-66-6	ug/L	10/14/2024						<1.00

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Dichlorodifluoromethane	7440-66-6	ug/L	4/14/2009	<3					
Dichlorodifluoromethane	7440-66-6	ug/L	5/10/2010	<4					
Dichlorodifluoromethane	7440-66-6	ug/L	3/30/2013			<3	<3		
Dichlorodifluoromethane	7440-66-6	ug/L	10/5/2015	<3					
Dichlorodifluoromethane	7440-66-6	ug/L	3/30/2020	<3					
Dieldrin	7440-66-6	ug/L	4/14/2009	<0.032					
Dieldrin	7440-66-6	ug/L	5/10/2010	<0.032					
Dieldrin	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Dieldrin	7440-66-6	ug/L	10/5/2015	<0.032					
Dieldrin	7440-66-6	ug/L	3/30/2020	<0.0333					
Diethyl phthalate	7440-66-6	ug/L	4/14/2009	<10					
Diethyl phthalate	7440-66-6	ug/L	5/10/2010	<10					
Diethyl phthalate	7440-66-6	ug/L	3/30/2013			<10	<10		
Diethyl phthalate	7440-66-6	ug/L	10/5/2015	<10					
Diethyl phthalate	7440-66-6	ug/L	3/30/2020	<10.4					
Dimethoate	7440-66-6	ug/L	4/14/2009	<10					
Dimethoate	7440-66-6	ug/L	5/10/2010	<10					
Dimethoate	7440-66-6	ug/L	3/30/2013			<10	<10		
Dimethoate	7440-66-6	ug/L	10/5/2015	<10					
Dimethoate	7440-66-6	ug/L	3/30/2020	<10.4					
Dimethyl phthalate	7440-66-6	ug/L	4/14/2009	<10					
Dimethyl phthalate	7440-66-6	ug/L	5/10/2010	<10					
Dimethyl phthalate	7440-66-6	ug/L	3/30/2013			<10	<10		
Dimethyl phthalate	7440-66-6	ug/L	10/5/2015	<10					
Dimethyl phthalate	7440-66-6	ug/L	3/30/2020	<10.4					
Dimethylaminoazobenzene	7440-66-6	ug/L	4/14/2009	<10					
Dimethylaminoazobenzene	7440-66-6	ug/L	5/10/2010	<10					
Dimethylaminoazobenzene	7440-66-6	ug/L	3/30/2013			<10	<10		
Dimethylaminoazobenzene	7440-66-6	ug/L	10/5/2015	<10					
Dimethylaminoazobenzene	7440-66-6	ug/L	3/30/2020	<10.4					
Di-n-butyl phthalate	7440-66-6	ug/L	4/14/2009	<10					
Di-n-butyl phthalate	7440-66-6	ug/L	5/10/2010	<10					
Di-n-butyl phthalate	7440-66-6	ug/L	3/30/2013			<10	<10		
Di-n-butyl phthalate	7440-66-6	ug/L	10/5/2015	1.53J					
Di-n-butyl phthalate	7440-66-6	ug/L	3/30/2020	<10.4					
Di-n-octyl phthalate	7440-66-6	ug/L	4/14/2009	<10					
Di-n-octyl phthalate	7440-66-6	ug/L	5/10/2010	<10					
Di-n-octyl phthalate	7440-66-6	ug/L	3/30/2013			<20	<20		
Di-n-octyl phthalate	7440-66-6	ug/L	10/5/2015	<20					
Di-n-octyl phthalate	7440-66-6	ug/L	3/30/2020	<20.8					
Dinoseb	7440-66-6	ug/L	4/14/2009	<10					
Dinoseb	7440-66-6	ug/L	5/10/2010	<10					
Dinoseb	7440-66-6	ug/L	3/30/2013			<10	<10		
Dinoseb	7440-66-6	ug/L	10/5/2015	<10					
Dinoseb	7440-66-6	ug/L	3/30/2020	<10.4					
Diphenylamine	7440-66-6	ug/L	4/14/2009	<10					
Diphenylamine	7440-66-6	ug/L	5/10/2010	<10					
Diphenylamine	7440-66-6	ug/L	3/30/2013			<10	<10		
Diphenylamine	7440-66-6	ug/L	10/5/2015	<10					
Diphenylamine	7440-66-6	ug/L	3/30/2020	<10.4					
Disulfoton	7440-66-6	ug/L	4/14/2009	<70					
Disulfoton	7440-66-6	ug/L	5/10/2010	<10					
Disulfoton	7440-66-6	ug/L	3/30/2013			<10	<10		
Disulfoton	7440-66-6	ug/L	10/5/2015	<10					
Disulfoton	7440-66-6	ug/L	3/30/2020	<10.4					
Endosulfan I	7440-66-6	ug/L	4/14/2009	<0.032					
Endosulfan I	7440-66-6	ug/L	5/10/2010	<0.032					

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Endosulfan I	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Endosulfan I	7440-66-6	ug/L	10/5/2015	<0.032					
Endosulfan I	7440-66-6	ug/L	3/30/2020	<0.0333					
Endosulfan II	7440-66-6	ug/L	4/14/2009	<0.032					
Endosulfan II	7440-66-6	ug/L	5/10/2010	<0.032					
Endosulfan II	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Endosulfan II	7440-66-6	ug/L	10/5/2015	<0.032					
Endosulfan II	7440-66-6	ug/L	3/30/2020	<0.0333					
Endosulfan sulfate	7440-66-6	ug/L	4/14/2009	<0.032					
Endosulfan sulfate	7440-66-6	ug/L	5/10/2010	<0.032					
Endosulfan sulfate	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Endosulfan sulfate	7440-66-6	ug/L	10/5/2015	<0.032					
Endosulfan sulfate	7440-66-6	ug/L	3/30/2020	<0.0333					
Endrin	7440-66-6	ug/L	4/14/2009	<0.032					
Endrin	7440-66-6	ug/L	5/10/2010	<0.032					
Endrin	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Endrin	7440-66-6	ug/L	10/5/2015	<0.032					
Endrin	7440-66-6	ug/L	3/30/2020	<0.0333					
Endrin aldehyde	7440-66-6	ug/L	4/14/2009	<0.032					
Endrin aldehyde	7440-66-6	ug/L	5/10/2010	<0.032					
Endrin aldehyde	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Endrin aldehyde	7440-66-6	ug/L	10/5/2015	<0.032					
Endrin aldehyde	7440-66-6	ug/L	3/30/2020	<0.0333					
Ethyl Methacrylate	7440-66-6	ug/L	4/14/2009	<2					
Ethyl Methacrylate	7440-66-6	ug/L	5/10/2010	<4					
Ethyl Methacrylate	7440-66-6	ug/L	3/30/2013			<2	<2		
Ethyl Methacrylate	7440-66-6	ug/L	10/5/2015	<2					
Ethyl Methacrylate	7440-66-6	ug/L	3/30/2020	<2					
Ethyl Methanesulfonate	7440-66-6	ug/L	4/14/2009	<10					
Ethyl Methanesulfonate	7440-66-6	ug/L	5/10/2010	<10					
Ethyl Methanesulfonate	7440-66-6	ug/L	3/30/2013			<10	<10		
Ethyl Methanesulfonate	7440-66-6	ug/L	10/5/2015	<10					
Ethyl Methanesulfonate	7440-66-6	ug/L	3/30/2020	<10.4					
Ethylbenzene	7440-66-6	ug/L	2/27/2008	<1	<1				
Ethylbenzene	7440-66-6	ug/L	5/12/2008	<1	<1				
Ethylbenzene	7440-66-6	ug/L	7/13/2008	<1	<1				
Ethylbenzene	7440-66-6	ug/L	9/14/2008	<1	<1				
Ethylbenzene	7440-66-6	ug/L	11/17/2008	<1	<1				
Ethylbenzene	7440-66-6	ug/L	4/14/2009	<1					
Ethylbenzene	7440-66-6	ug/L	10/25/2009	<2					
Ethylbenzene	7440-66-6	ug/L	5/10/2010	<2					
Ethylbenzene	7440-66-6	ug/L	11/1/2010	<1					
Ethylbenzene	7440-66-6	ug/L	8/11/2011			<1			
Ethylbenzene	7440-66-6	ug/L	10/13/2011	<1		<1			
Ethylbenzene	7440-66-6	ug/L	12/5/2011			<1			
Ethylbenzene	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
Ethylbenzene	7440-66-6	ug/L	6/25/2012			<1	<1		
Ethylbenzene	7440-66-6	ug/L	8/1/2012			<1	<1		
Ethylbenzene	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
Ethylbenzene	7440-66-6	ug/L	12/13/2012				<1		
Ethylbenzene	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
Ethylbenzene	7440-66-6	ug/L	10/7/2013				<1		
Ethylbenzene	7440-66-6	ug/L	6/2/2014	<1					
Ethylbenzene	7440-66-6	ug/L	10/15/2014	<1					
Ethylbenzene	7440-66-6	ug/L	4/6/2015	<1					
Ethylbenzene	7440-66-6	ug/L	10/5/2015	<1					
Ethylbenzene	7440-66-6	ug/L	4/4/2016	<1					

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Ethylbenzene	7440-66-6	ug/L	10/17/2016	<1					
Ethylbenzene	7440-66-6	ug/L	4/17/2017	<1					
Ethylbenzene	7440-66-6	ug/L	10/11/2017	<1					
Ethylbenzene	7440-66-6	ug/L	4/25/2018	<1					
Ethylbenzene	7440-66-6	ug/L	10/16/2018	<1					
Ethylbenzene	7440-66-6	ug/L	4/16/2019	<1					
Ethylbenzene	7440-66-6	ug/L	10/1/2019	<1					
Ethylbenzene	7440-66-6	ug/L	3/30/2020	<1					
Ethylbenzene	7440-66-6	ug/L	10/7/2020	<1					
Ethylbenzene	7440-66-6	ug/L	4/13/2021	<1					
Ethylbenzene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
Ethylbenzene	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
Ethylbenzene	7440-66-6	ug/L	10/14/2024						<1.00
Famphur	7440-66-6	ug/L	4/14/2009	<20					
Famphur	7440-66-6	ug/L	5/10/2010	<20					
Famphur	7440-66-6	ug/L	3/30/2013			<20	<20		
Famphur	7440-66-6	ug/L	10/5/2015	<20					
Famphur	7440-66-6	ug/L	3/30/2020	<10.4					
Fluoranthene	7440-66-6	ug/L	4/14/2009	<10					
Fluoranthene	7440-66-6	ug/L	5/10/2010	<10					
Fluoranthene	7440-66-6	ug/L	3/30/2013			<10	<10		
Fluoranthene	7440-66-6	ug/L	10/5/2015	<10					
Fluoranthene	7440-66-6	ug/L	3/30/2020	<10.4					
Fluorene	7440-66-6	ug/L	4/14/2009	<10					
Fluorene	7440-66-6	ug/L	5/10/2010	<10					
Fluorene	7440-66-6	ug/L	3/30/2013			<10	<10		
Fluorene	7440-66-6	ug/L	10/5/2015	<10					
Fluorene	7440-66-6	ug/L	3/30/2020	<10.4					
Gamma-BHC [Lindane]	7440-66-6	ug/L	4/14/2009	<0.032					
Gamma-BHC [Lindane]	7440-66-6	ug/L	5/10/2010	<0.032					
Gamma-BHC [Lindane]	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Gamma-BHC [Lindane]	7440-66-6	ug/L	10/5/2015	<0.032					
Gamma-BHC [Lindane]	7440-66-6	ug/L	3/30/2020	<0.0333					
Heptachlor	7440-66-6	ug/L	4/14/2009	<0.032					
Heptachlor	7440-66-6	ug/L	5/10/2010	<0.032					
Heptachlor	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Heptachlor	7440-66-6	ug/L	10/5/2015	<0.032					
Heptachlor	7440-66-6	ug/L	3/30/2020	<0.0333					
Heptachlor Epoxide	7440-66-6	ug/L	4/14/2009	<0.032					
Heptachlor Epoxide	7440-66-6	ug/L	5/10/2010	<0.032					
Heptachlor Epoxide	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Heptachlor Epoxide	7440-66-6	ug/L	10/5/2015	<0.032					
Heptachlor Epoxide	7440-66-6	ug/L	3/30/2020	<0.0333					
Hexachlorobenzene	7440-66-6	ug/L	4/14/2009	<10					
Hexachlorobenzene	7440-66-6	ug/L	5/10/2010	<10					
Hexachlorobenzene	7440-66-6	ug/L	3/30/2013			<10	<10		
Hexachlorobenzene	7440-66-6	ug/L	10/5/2015	<10					
Hexachlorobenzene	7440-66-6	ug/L	3/30/2020	<10.4					
Hexachlorobutadiene	7440-66-6	ug/L	4/14/2009	<10					
Hexachlorobutadiene	7440-66-6	ug/L	5/10/2010	<10					
Hexachlorobutadiene	7440-66-6	ug/L	3/30/2013			<10	<10		

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Hexachlorobutadiene	7440-66-6	ug/L	10/5/2015	<10					
Hexachlorobutadiene	7440-66-6	ug/L	3/30/2020	<10.4					
Hexachlorocyclopentadiene	7440-66-6	ug/L	4/14/2009	<10					
Hexachlorocyclopentadiene	7440-66-6	ug/L	5/10/2010	<10					
Hexachlorocyclopentadiene	7440-66-6	ug/L	3/30/2013			<20	<20		
Hexachlorocyclopentadiene	7440-66-6	ug/L	10/5/2015	<20					
Hexachlorocyclopentadiene	7440-66-6	ug/L	3/30/2020	<10.4					
Hexachloroethane	7440-66-6	ug/L	4/14/2009	<10					
Hexachloroethane	7440-66-6	ug/L	5/10/2010	<10					
Hexachloroethane	7440-66-6	ug/L	3/30/2013			<10	<10		
Hexachloroethane	7440-66-6	ug/L	10/5/2015	<10					
Hexachloroethane	7440-66-6	ug/L	3/30/2020	<10.4					
Hexachloropropene	7440-66-6	ug/L	4/14/2009	<10					
Hexachloropropene	7440-66-6	ug/L	5/10/2010	<10					
Hexachloropropene	7440-66-6	ug/L	3/30/2013			<10	<10		
Hexachloropropene	7440-66-6	ug/L	10/5/2015	<10					
Hexachloropropene	7440-66-6	ug/L	3/30/2020	<10.4					
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	4/14/2009	<10					
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	5/10/2010	<10					
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	3/30/2013			<10	<10		
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	10/5/2015	<10					
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	3/30/2020	<10.4					
Iodomethane	7440-66-6	ug/L	2/27/2008	<10	<10				
Iodomethane	7440-66-6	ug/L	5/12/2008	<10	<10				
Iodomethane	7440-66-6	ug/L	7/13/2008	<10	<10				
Iodomethane	7440-66-6	ug/L	9/14/2008	<10	<10				
Iodomethane	7440-66-6	ug/L	11/17/2008	<10	<10				
Iodomethane	7440-66-6	ug/L	4/14/2009	<10					
Iodomethane	7440-66-6	ug/L	10/25/2009	<10					
Iodomethane	7440-66-6	ug/L	5/10/2010	<10					
Iodomethane	7440-66-6	ug/L	11/1/2010	<10					
Iodomethane	7440-66-6	ug/L	8/11/2011			<50			
Iodomethane	7440-66-6	ug/L	10/13/2011	<10		<10			
Iodomethane	7440-66-6	ug/L	12/5/2011			<20			
Iodomethane	7440-66-6	ug/L	4/11/2012	<10		<10	<10		
Iodomethane	7440-66-6	ug/L	6/25/2012			<10	<10		
Iodomethane	7440-66-6	ug/L	8/1/2012			<10	<10		
Iodomethane	7440-66-6	ug/L	10/11/2012	<10		<10	<10		
Iodomethane	7440-66-6	ug/L	12/13/2012				<10		
Iodomethane	7440-66-6	ug/L	3/30/2013	<10		<10	<10		
Iodomethane	7440-66-6	ug/L	10/7/2013				<10		
Iodomethane	7440-66-6	ug/L	6/2/2014	<10					
Iodomethane	7440-66-6	ug/L	10/15/2014	<10					
Iodomethane	7440-66-6	ug/L	4/6/2015	<10					
Iodomethane	7440-66-6	ug/L	10/5/2015	<10					
Iodomethane	7440-66-6	ug/L	4/4/2016	<10					
Iodomethane	7440-66-6	ug/L	10/17/2016	<10					
Iodomethane	7440-66-6	ug/L	4/17/2017	<10					
Iodomethane	7440-66-6	ug/L	10/11/2017	<10					
Iodomethane	7440-66-6	ug/L	4/25/2018	<10					
Iodomethane	7440-66-6	ug/L	10/16/2018	<10					
Iodomethane	7440-66-6	ug/L	4/16/2019	<10					
Iodomethane	7440-66-6	ug/L	10/1/2019	<10					
Iodomethane	7440-66-6	ug/L	3/30/2020	<10					
Iodomethane	7440-66-6	ug/L	10/7/2020	<10					
Iodomethane	7440-66-6	ug/L	4/13/2021	<1					
Iodomethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Iodomethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Iodomethane	7440-66-6	ug/L	10/14/2022	<1				<1	<1
Iodomethane	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/10/2024	<10.0		<10.0		<10.0	
Iodomethane	7440-66-6	ug/L	10/9/2024		<10.0		<10.0		
Iodomethane	7440-66-6	ug/L	10/14/2024						<10.0
Iron, Total	7440-66-6	mg/L	4/6/2015	15.4	<0.1	<0.1	<0.1		
Iron, Total	7440-66-6	mg/L	10/5/2015	15.6	<0.1	<0.1	<0.1		
Iron, Total	7440-66-6	mg/L	4/4/2016	15.1	<0.1	<0.1	<0.1		
Iron, Total	7440-66-6	mg/L	10/17/2016	15.5	<0.1	<0.1	<0.1		
Isobutanol	7440-66-6	mg/L	4/14/2009	<10					
Isobutanol	7440-66-6	mg/L	5/10/2010	<10					
Isobutanol	7440-66-6	mg/L	3/30/2013			<10	<10		
Isobutanol	7440-66-6	mg/L	10/5/2015	<10					
Isobutanol	7440-66-6	mg/L	3/30/2020	<10					
Isodrin	7440-66-6	ug/L	4/14/2009	<10					
Isodrin	7440-66-6	ug/L	5/10/2010	<10					
Isodrin	7440-66-6	ug/L	3/30/2013			<10	<10		
Isodrin	7440-66-6	ug/L	10/5/2015	<10					
Isodrin	7440-66-6	ug/L	3/30/2020	<10.4					
Isophorone	7440-66-6	ug/L	4/14/2009	<10					
Isophorone	7440-66-6	ug/L	5/10/2010	<10					
Isophorone	7440-66-6	ug/L	3/30/2013			<10	<10		
Isophorone	7440-66-6	ug/L	10/5/2015	<10					
Isophorone	7440-66-6	ug/L	3/30/2020	<10.4					
Isosafrole	7440-66-6	ug/L	4/14/2009	<10					
Isosafrole	7440-66-6	ug/L	5/10/2010	<10					
Isosafrole	7440-66-6	ug/L	3/30/2013			<10	<10		
Isosafrole	7440-66-6	ug/L	10/5/2015	<10					
Isosafrole	7440-66-6	ug/L	3/30/2020	<10.4					
Kepone	7440-66-6	ug/L	4/14/2009	<10					
Kepone	7440-66-6	ug/L	5/10/2010	<10					
Kepone	7440-66-6	ug/L	3/30/2013			<10	<10		
Kepone	7440-66-6	ug/L	10/5/2015	<10					
Kepone	7440-66-6	ug/L	3/30/2020	<10.4					
Lead	7440-66-6	mg/L	2/27/2008	<0.005	<0.005				
Lead	7440-66-6	mg/L	5/12/2008	<0.005	<0.005				
Lead	7440-66-6	mg/L	7/13/2008	<0.005	<0.005				
Lead	7440-66-6	mg/L	9/14/2008	<0.005	<0.005				
Lead	7440-66-6	mg/L	11/17/2008	<0.004	<0.004				
Lead	7440-66-6	mg/L	4/14/2009	<0.005					
Lead	7440-66-6	mg/L	10/25/2009	<0.005					
Lead	7440-66-6	mg/L	5/10/2010	<0.002					
Lead	7440-66-6	mg/L	8/11/2011			<0.005			
Lead	7440-66-6	mg/L	10/13/2011			<0.004			
Lead	7440-66-6	mg/L	12/5/2011			<0.004			
Lead	7440-66-6	mg/L	4/11/2012	<0.004		<0.004	<0.004		
Lead	7440-66-6	mg/L	6/25/2012			<0.004	<0.004		
Lead	7440-66-6	mg/L	8/1/2012			<0.004	<0.004		
Lead	7440-66-6	mg/L	10/11/2012	<0.004		<0.004	<0.004		
Lead	7440-66-6	mg/L	12/13/2012				<0.004		
Lead	7440-66-6	mg/L	3/30/2013	<0.004		<0.004	<0.004		
Lead	7440-66-6	mg/L	10/7/2013	<0.004		<0.004	<0.004		
Lead	7440-66-6	mg/L	6/2/2014	<0.004; 0.0044					
Lead	7440-66-6	mg/L	10/15/2014	<0.004					

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Lead	7440-66-6	mg/L	4/6/2015	<0.0005					
Lead	7440-66-6	mg/L	10/5/2015	0.000167J					
Lead	7440-66-6	mg/L	4/4/2016	<0.0005					
Lead	7440-66-6	mg/L	10/17/2016	<0.0005					
Lead	7440-66-6	mg/L	4/17/2017	<0.0005					
Lead	7440-66-6	mg/L	10/11/2017	<0.0005					
Lead	7440-66-6	mg/L	4/25/2018	<0.0005					
Lead	7440-66-6	mg/L	10/16/2018	<0.0005					
Lead	7440-66-6	mg/L	4/16/2019	<0.0005					
Lead	7440-66-6	mg/L	10/1/2019	<0.0005					
Lead	7440-66-6	mg/L	3/30/2020	<0.0005					
Lead	7440-66-6	mg/L	10/7/2020	<0.0005					
Lead	7440-66-6	mg/L	4/13/2021	<0.004					
Lead	7440-66-6	mg/L	10/20/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead	7440-66-6	mg/L	5/2/2022	0.0011J; <0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead	7440-66-6	mg/L	10/14/2022	<0.004	<0.004	<0.004	<0.004	0.0008J	<0.004
Lead	7440-66-6	mg/L	5/1/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	10/16/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	4/29/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	10/10/2024	<0.000500		<0.000500		<0.000500	
Lead	7440-66-6	mg/L	10/9/2024		<0.000500		<0.000500		
Lead	7440-66-6	mg/L	10/14/2024						<0.000500
m/p-Cresol	7440-66-6	ug/L	4/14/2009	<10					
m/p-Cresol	7440-66-6	ug/L	5/10/2010	<10					
m/p-Cresol	7440-66-6	ug/L	3/30/2013			<10	<10		
m/p-Cresol	7440-66-6	ug/L	10/5/2015	<10					
m/p-Cresol	7440-66-6	ug/L	3/30/2020	<10.4					
Magnesium	7440-66-6	mg/L	6/2/2014	39.8; 38.9					
Magnesium	7440-66-6	mg/L	10/15/2014	45.3		19.2			
Manganese	7440-66-6	mg/L	4/6/2015	0.904	<0.01	0.111	0.025		
Manganese	7440-66-6	mg/L	10/5/2015	0.912	0.0768	0.251	0.0725		
Manganese	7440-66-6	mg/L	4/4/2016	0.927	0.0184	0.183	0.00891J		
Manganese	7440-66-6	mg/L	10/17/2016	0.969	0.0745	0.23	0.0418		
Mercury	7440-66-6	mg/L	4/14/2009	<0.0002					
Mercury	7440-66-6	mg/L	5/10/2010	<0.0002					
Mercury	7440-66-6	mg/L	3/30/2013			<0.0002	<0.0002		
Mercury	7440-66-6	mg/L	10/5/2015	<0.0002					
Mercury	7440-66-6	mg/L	3/30/2020	<0.0002					
Methacrylonitrile	7440-66-6	ug/L	4/14/2009	<1					
Methacrylonitrile	7440-66-6	ug/L	5/10/2010	<1					
Methacrylonitrile	7440-66-6	ug/L	3/30/2013			<1	<1		
Methacrylonitrile	7440-66-6	ug/L	10/5/2015	<10					
Methacrylonitrile	7440-66-6	ug/L	3/30/2020	<10					
Methane, Dissolved	7440-66-6	mg/L	4/6/2015	0.186	<0.005	0.00361J	0.00755		
Methane, Dissolved	7440-66-6	mg/L	10/5/2015	0.249	0.0221	0.00256	0.00256		
Methane, Dissolved	7440-66-6	mg/L	4/4/2016	0.00837	<0.00058	<0.00058	<0.00058		
Methane, Dissolved	7440-66-6	mg/L	10/17/2016	0.299	0.00124	0.000611	0.000311J		
Methapyrilene	7440-66-6	ug/L	4/14/2009	<10					
Methapyrilene	7440-66-6	ug/L	5/10/2010	<10					
Methapyrilene	7440-66-6	ug/L	3/30/2013			<10	<10		
Methapyrilene	7440-66-6	ug/L	10/5/2015	<10					
Methapyrilene	7440-66-6	ug/L	3/30/2020	<10.4					
Methoxychlor	7440-66-6	ug/L	4/14/2009	<0.032					
Methoxychlor	7440-66-6	ug/L	5/10/2010	<0.032					
Methoxychlor	7440-66-6	ug/L	3/30/2013			<0.032	<0.032		
Methoxychlor	7440-66-6	ug/L	10/5/2015	<0.032					
Methoxychlor	7440-66-6	ug/L	3/30/2020	<0.0333					

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Methyl Methacrylate	7440-66-6	ug/L	4/14/2009	<2					
Methyl Methacrylate	7440-66-6	ug/L	5/10/2010	<2					
Methyl Methacrylate	7440-66-6	ug/L	3/30/2013			<2	<2		
Methyl Methacrylate	7440-66-6	ug/L	10/5/2015	<2					
Methyl Methacrylate	7440-66-6	ug/L	3/30/2020	<2					
Methyl Methanesulfonate	7440-66-6	ug/L	4/14/2009	<10					
Methyl Methanesulfonate	7440-66-6	ug/L	5/10/2010	<10					
Methyl Methanesulfonate	7440-66-6	ug/L	3/30/2013			<10	<10		
Methyl Methanesulfonate	7440-66-6	ug/L	10/5/2015	<10					
Methyl Methanesulfonate	7440-66-6	ug/L	3/30/2020	<10.4					
Methylene Chloride	7440-66-6	ug/L	2/27/2008	<5	<5				
Methylene Chloride	7440-66-6	ug/L	5/12/2008	<5	<5				
Methylene Chloride	7440-66-6	ug/L	7/13/2008	<5	<5				
Methylene Chloride	7440-66-6	ug/L	9/14/2008	<5	<5				
Methylene Chloride	7440-66-6	ug/L	11/17/2008	<5	<5				
Methylene Chloride	7440-66-6	ug/L	4/14/2009	<5					
Methylene Chloride	7440-66-6	ug/L	10/25/2009	<5					
Methylene Chloride	7440-66-6	ug/L	5/10/2010	<5					
Methylene Chloride	7440-66-6	ug/L	11/1/2010	<5					
Methylene Chloride	7440-66-6	ug/L	8/11/2011			<5			
Methylene Chloride	7440-66-6	ug/L	10/13/2011	<5		<5			
Methylene Chloride	7440-66-6	ug/L	12/5/2011			<5			
Methylene Chloride	7440-66-6	ug/L	4/11/2012	<5		<5	<5		
Methylene Chloride	7440-66-6	ug/L	6/25/2012			<5	<5		
Methylene Chloride	7440-66-6	ug/L	8/1/2012			<5	<5		
Methylene Chloride	7440-66-6	ug/L	10/11/2012	<5		<5	<5		
Methylene Chloride	7440-66-6	ug/L	12/13/2012				<5		
Methylene Chloride	7440-66-6	ug/L	3/30/2013	<5		<5	<5		
Methylene Chloride	7440-66-6	ug/L	10/7/2013				<5		
Methylene Chloride	7440-66-6	ug/L	6/2/2014	<5					
Methylene Chloride	7440-66-6	ug/L	10/15/2014	<5					
Methylene Chloride	7440-66-6	ug/L	4/6/2015	<5					
Methylene Chloride	7440-66-6	ug/L	10/5/2015	0.721J					
Methylene Chloride	7440-66-6	ug/L	4/4/2016	<5					
Methylene Chloride	7440-66-6	ug/L	10/17/2016	0.313J					
Methylene Chloride	7440-66-6	ug/L	4/17/2017	0.326J; 0.295J					
Methylene Chloride	7440-66-6	ug/L	10/11/2017	0.209J					
Methylene Chloride	7440-66-6	ug/L	4/25/2018	0.419J					
Methylene Chloride	7440-66-6	ug/L	10/16/2018	<5					
Methylene Chloride	7440-66-6	ug/L	4/16/2019	<5					
Methylene Chloride	7440-66-6	ug/L	10/1/2019	<5					
Methylene Chloride	7440-66-6	ug/L	3/30/2020	<5					
Methylene Chloride	7440-66-6	ug/L	10/7/2020	<5					
Methylene Chloride	7440-66-6	ug/L	4/13/2021	<5					
Methylene Chloride	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	5/2/2022	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/14/2022	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/10/2024	<5.00		<5.00		<5.00	
Methylene Chloride	7440-66-6	ug/L	10/9/2024		<5.00		<5.00		
Methylene Chloride	7440-66-6	ug/L	10/14/2024						<5.00
Naphthalene	7440-66-6	ug/L	4/14/2009	<5					
Naphthalene	7440-66-6	ug/L	5/10/2010	<5					
Naphthalene	7440-66-6	ug/L	3/30/2013			<5	<5		
Naphthalene	7440-66-6	ug/L	10/5/2015	<5					

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Naphthalene	7440-66-6	ug/L	3/30/2020	<5					
Nickel	7440-66-6	mg/L	2/27/2008	<0.01	<0.01				
Nickel	7440-66-6	mg/L	5/12/2008	<0.01	<0.01				
Nickel	7440-66-6	mg/L	7/13/2008	<0.01	<0.01				
Nickel	7440-66-6	mg/L	9/14/2008	<0.01	0.055				
Nickel	7440-66-6	mg/L	11/17/2008	<0.05	<0.05				
Nickel	7440-66-6	mg/L	4/14/2009	<0.01					
Nickel	7440-66-6	mg/L	10/25/2009	<0.01					
Nickel	7440-66-6	mg/L	5/10/2010	<0.05					
Nickel	7440-66-6	mg/L	8/11/2011			<0.01			
Nickel	7440-66-6	mg/L	10/13/2011			<0.05			
Nickel	7440-66-6	mg/L	12/5/2011			<0.05			
Nickel	7440-66-6	mg/L	4/11/2012	<0.05		<0.05	<0.05		
Nickel	7440-66-6	mg/L	6/25/2012			<0.05	<0.05		
Nickel	7440-66-6	mg/L	8/1/2012			<0.05	<0.05		
Nickel	7440-66-6	mg/L	10/11/2012	<0.05		<0.05	<0.05		
Nickel	7440-66-6	mg/L	12/13/2012				<0.05		
Nickel	7440-66-6	mg/L	3/30/2013	<0.05		<0.05	<0.05		
Nickel	7440-66-6	mg/L	10/7/2013	<0.05		<0.05	<0.05		
Nickel	7440-66-6	mg/L	6/2/2014	<0.05					
Nickel	7440-66-6	mg/L	10/15/2014	0.0103J					
Nickel	7440-66-6	mg/L	4/6/2015	0.000999J					
Nickel	7440-66-6	mg/L	10/5/2015	<0.005					
Nickel	7440-66-6	mg/L	4/4/2016	<0.005					
Nickel	7440-66-6	mg/L	10/17/2016	<0.005					
Nickel	7440-66-6	mg/L	4/17/2017	<0.005					
Nickel	7440-66-6	mg/L	10/11/2017	<0.005					
Nickel	7440-66-6	mg/L	4/25/2018	<0.005					
Nickel	7440-66-6	mg/L	10/16/2018	<0.002					
Nickel	7440-66-6	mg/L	4/16/2019	<0.005					
Nickel	7440-66-6	mg/L	10/1/2019	<0.005					
Nickel	7440-66-6	mg/L	3/30/2020	<0.005					
Nickel	7440-66-6	mg/L	10/7/2020	<0.005					
Nickel	7440-66-6	mg/L	4/13/2021	<0.004					
Nickel	7440-66-6	mg/L	10/20/2021	<0.004	<0.004	0.0016J	0.0077	0.0031J	0.0048
Nickel	7440-66-6	mg/L	5/2/2022	<0.004	<0.004	<0.004	<0.004	0.0029J	0.0042
Nickel	7440-66-6	mg/L	10/14/2022	<0.004	0.0016J	0.0024J	0.0022J	0.0191	0.0049
Nickel	7440-66-6	mg/L	5/1/2023	<0.005	<0.005	<0.005	<0.005	0.00205J	0.0042J
Nickel	7440-66-6	mg/L	10/16/2023	<0.005	<0.005	<0.005	<0.005	0.00439J	0.00346J
Nickel	7440-66-6	mg/L	4/29/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nickel	7440-66-6	mg/L	10/10/2024	<0.00500		<0.00500		0.00322J	
Nickel	7440-66-6	mg/L	10/9/2024		<0.00500		0.00227J		
Nickel	7440-66-6	mg/L	10/14/2024						0.00282J
Nitrate (NO3)	7440-66-6	mg/L	4/6/2015	<0.1	7.42	4.61	0.327		
Nitrate (NO3)	7440-66-6	mg/L	10/5/2015	<0.1	7.68	6.42	0.185		
Nitrate (NO3)	7440-66-6	mg/L	4/4/2016	<0.1	6.26	6.47	<0.1		
Nitrate (NO3)	7440-66-6	mg/L	10/17/2016	0.719	4.88	7.24	0.14		
Nitrobenzene	7440-66-6	ug/L	4/14/2009	<10					
Nitrobenzene	7440-66-6	ug/L	5/10/2010	<10					
Nitrobenzene	7440-66-6	ug/L	3/30/2013			<10	<10		
Nitrobenzene	7440-66-6	ug/L	10/5/2015	<10					
Nitrobenzene	7440-66-6	ug/L	3/30/2020	<10.4					
N-Nitrosodiethylamine	7440-66-6	ug/L	4/14/2009	<10					
N-Nitrosodiethylamine	7440-66-6	ug/L	5/10/2010	<10					
N-Nitrosodiethylamine	7440-66-6	ug/L	3/30/2013			<10	<10		
N-Nitrosodiethylamine	7440-66-6	ug/L	10/5/2015	<10					
N-Nitrosodiethylamine	7440-66-6	ug/L	3/30/2020	<10.4					

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
N-Nitrosodimethylamine	7440-66-6	ug/L	4/14/2009	<10					
N-Nitrosodimethylamine	7440-66-6	ug/L	5/10/2010	<10					
N-Nitrosodimethylamine	7440-66-6	ug/L	3/30/2013			<10	<10		
N-Nitrosodimethylamine	7440-66-6	ug/L	10/5/2015	<10					
N-Nitrosodimethylamine	7440-66-6	ug/L	3/30/2020	<10.4					
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	4/14/2009	<10					
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	5/10/2010	<10					
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	3/30/2013			<10	<10		
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	10/5/2015	<10					
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	3/30/2020	<10.4					
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	4/14/2009	<10					
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	5/10/2010	<10					
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	3/30/2013			<10	<10		
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	10/5/2015	<10					
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	3/30/2020	<10.4					
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/14/2009	<10					
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/10/2010	<10					
N-Nitrosodiphenylamine	7440-66-6	ug/L	3/30/2013			<10	<10		
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/5/2015	<10					
N-Nitrosodiphenylamine	7440-66-6	ug/L	3/30/2020	<10.4					
N-Nitrosomethylethalamine	7440-66-6	ug/L	4/14/2009	<10					
N-Nitrosomethylethalamine	7440-66-6	ug/L	5/10/2010	<10					
N-Nitrosomethylethalamine	7440-66-6	ug/L	3/30/2013			<10	<10		
N-Nitrosomethylethalamine	7440-66-6	ug/L	10/5/2015	<10					
N-Nitrosomethylethalamine	7440-66-6	ug/L	3/30/2020	<10.4					
N-Nitrosopiperidine	7440-66-6	ug/L	4/14/2009	<10					
N-Nitrosopiperidine	7440-66-6	ug/L	5/10/2010	<10					
N-Nitrosopiperidine	7440-66-6	ug/L	3/30/2013			<10	<10		
N-Nitrosopiperidine	7440-66-6	ug/L	10/5/2015	<10					
N-Nitrosopiperidine	7440-66-6	ug/L	3/30/2020	<10.4					
N-Nitrosopyrrolidine	7440-66-6	ug/L	4/14/2009	<10					
N-Nitrosopyrrolidine	7440-66-6	ug/L	5/10/2010	<10					
N-Nitrosopyrrolidine	7440-66-6	ug/L	3/30/2013			<10	<10		
N-Nitrosopyrrolidine	7440-66-6	ug/L	10/5/2015	<10					
N-Nitrosopyrrolidine	7440-66-6	ug/L	3/30/2020	<10.4					
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	4/14/2009	<30					
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	5/10/2010	<10					
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	3/30/2013			<10	<10		
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	10/5/2015	<10					
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	3/30/2020	<10.4					
O-Toluidine	7440-66-6	ug/L	4/14/2009	<10					
O-Toluidine	7440-66-6	ug/L	5/10/2010	<10					
O-Toluidine	7440-66-6	ug/L	3/30/2013			<10	<10		
O-Toluidine	7440-66-6	ug/L	10/5/2015	<10					
O-Toluidine	7440-66-6	ug/L	3/30/2020	<10.4					
Parathion-Ethyl	7440-66-6	ug/L	4/14/2009	<10					
Parathion-Ethyl	7440-66-6	ug/L	5/10/2010	<10					
Parathion-Ethyl	7440-66-6	ug/L	3/30/2013			<10	<10		
Parathion-Ethyl	7440-66-6	ug/L	10/5/2015	<10					
Parathion-Ethyl	7440-66-6	ug/L	3/30/2020	<10.4					
Parathion-Methyl	7440-66-6	ug/L	4/14/2009	<10					
Parathion-Methyl	7440-66-6	ug/L	5/10/2010	<10					
Parathion-Methyl	7440-66-6	ug/L	3/30/2013			<10	<10		
Parathion-Methyl	7440-66-6	ug/L	10/5/2015	<10					
Parathion-Methyl	7440-66-6	ug/L	3/30/2020	<10.4					
PCB-1016	7440-66-6	ug/L	4/14/2009	<0.8					
PCB-1016	7440-66-6	ug/L	5/10/2010	<0.8					

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
PCB-1016	7440-66-6	ug/L	3/30/2013			<0.8	<0.8		
PCB-1016	7440-66-6	ug/L	10/5/2015	<0.8					
PCB-1016	7440-66-6	ug/L	3/30/2020	<0.833					
PCB-1221	7440-66-6	ug/L	4/14/2009	<0.8					
PCB-1221	7440-66-6	ug/L	5/10/2010	<0.8					
PCB-1221	7440-66-6	ug/L	3/30/2013			<0.8	<0.8		
PCB-1221	7440-66-6	ug/L	10/5/2015	<0.8					
PCB-1221	7440-66-6	ug/L	3/30/2020	<0.833					
PCB-1232	7440-66-6	ug/L	4/14/2009	<0.8					
PCB-1232	7440-66-6	ug/L	5/10/2010	<0.8					
PCB-1232	7440-66-6	ug/L	3/30/2013			<0.8	<0.8		
PCB-1232	7440-66-6	ug/L	10/5/2015	<0.8					
PCB-1232	7440-66-6	ug/L	3/30/2020	<0.833					
PCB-1242	7440-66-6	ug/L	4/14/2009	<0.8					
PCB-1242	7440-66-6	ug/L	5/10/2010	<0.8					
PCB-1242	7440-66-6	ug/L	3/30/2013			<0.8	<0.8		
PCB-1242	7440-66-6	ug/L	10/5/2015	<0.8					
PCB-1242	7440-66-6	ug/L	3/30/2020	<0.833					
PCB-1248	7440-66-6	ug/L	4/14/2009	<0.8					
PCB-1248	7440-66-6	ug/L	5/10/2010	<0.8					
PCB-1248	7440-66-6	ug/L	3/30/2013			<0.8	<0.8		
PCB-1248	7440-66-6	ug/L	10/5/2015	<0.8					
PCB-1248	7440-66-6	ug/L	3/30/2020	<0.833					
PCB-1254	7440-66-6	ug/L	4/14/2009	<0.8					
PCB-1254	7440-66-6	ug/L	5/10/2010	<0.8					
PCB-1254	7440-66-6	ug/L	3/30/2013			<0.8	<0.8		
PCB-1254	7440-66-6	ug/L	10/5/2015	<0.8					
PCB-1254	7440-66-6	ug/L	3/30/2020	<0.833					
PCB-1260	7440-66-6	ug/L	4/14/2009	<0.8					
PCB-1260	7440-66-6	ug/L	5/10/2010	<0.8					
PCB-1260	7440-66-6	ug/L	3/30/2013			<0.8	<0.8		
PCB-1260	7440-66-6	ug/L	10/5/2015	<0.8					
PCB-1260	7440-66-6	ug/L	3/30/2020	<0.833					
p-Chloroaniline	7440-66-6	ug/L	4/14/2009	<10					
p-Chloroaniline	7440-66-6	ug/L	5/10/2010	<10					
p-Chloroaniline	7440-66-6	ug/L	3/30/2013			<10	<10		
p-Chloroaniline	7440-66-6	ug/L	10/5/2015	<10					
p-Chloroaniline	7440-66-6	ug/L	3/30/2020	<10.4					
Pentachlorobenzene	7440-66-6	ug/L	4/14/2009	<10					
Pentachlorobenzene	7440-66-6	ug/L	5/10/2010	<10					
Pentachlorobenzene	7440-66-6	ug/L	3/30/2013			<10	<10		
Pentachlorobenzene	7440-66-6	ug/L	10/5/2015	<10					
Pentachlorobenzene	7440-66-6	ug/L	3/30/2020	<10.4					
Pentachloronitrobenzene	7440-66-6	ug/L	4/14/2009	<10					
Pentachloronitrobenzene	7440-66-6	ug/L	5/10/2010	<10					
Pentachloronitrobenzene	7440-66-6	ug/L	3/30/2013			<10	<10		
Pentachloronitrobenzene	7440-66-6	ug/L	10/5/2015	<10					
Pentachloronitrobenzene	7440-66-6	ug/L	3/30/2020	<10.4					
Pentachlorophenol [2C]	7440-66-6	ug/L	4/14/2009	<10					
Pentachlorophenol [2C]	7440-66-6	ug/L	5/10/2010	<10					
Pentachlorophenol [2C]	7440-66-6	ug/L	3/30/2013			<10	<10		
Pentachlorophenol [2C]	7440-66-6	ug/L	10/5/2015	<10					
Pentachlorophenol [2C]	7440-66-6	ug/L	3/30/2020	<10.4					
Phenacetin	7440-66-6	ug/L	4/14/2009	<10					
Phenacetin	7440-66-6	ug/L	5/10/2010	<10					
Phenacetin	7440-66-6	ug/L	3/30/2013			<10	<10		
Phenacetin	7440-66-6	ug/L	10/5/2015	<10					

Table 9A
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Phenacetin	7440-66-6	ug/L	3/30/2020	<10.4					
Phenanthrene	7440-66-6	ug/L	4/14/2009	<10					
Phenanthrene	7440-66-6	ug/L	5/10/2010	<10					
Phenanthrene	7440-66-6	ug/L	3/30/2013			<10	<10		
Phenanthrene	7440-66-6	ug/L	10/5/2015	<10					
Phenanthrene	7440-66-6	ug/L	3/30/2020	<10.4					
Phenol	7440-66-6	ug/L	4/14/2009	<20					
Phenol	7440-66-6	ug/L	5/10/2010	<10					
Phenol	7440-66-6	ug/L	3/30/2013			<10	<10		
Phenol	7440-66-6	ug/L	10/5/2015	<10					
Phenol	7440-66-6	ug/L	3/30/2020	<10.4					
Phorate	7440-66-6	ug/L	4/14/2009	<60					
Phorate	7440-66-6	ug/L	5/10/2010	<10					
Phorate	7440-66-6	ug/L	3/30/2013			<10	<10		
Phorate	7440-66-6	ug/L	10/5/2015	<10					
Phorate	7440-66-6	ug/L	3/30/2020	<10.4					
Potassium	7440-66-6	mg/L	6/2/2014	0.835J; 0.862J					
Potassium	7440-66-6	mg/L	10/15/2014	0.919J		<1		0.919J	
Pronamide	7440-66-6	ug/L	4/14/2009	<10					
Pronamide	7440-66-6	ug/L	5/10/2010	<10					
Pronamide	7440-66-6	ug/L	3/30/2013			<10	<10		
Pronamide	7440-66-6	ug/L	10/5/2015	<10					
Pronamide	7440-66-6	ug/L	3/30/2020	<10.4					
Propionitrile	7440-66-6	ug/L	4/14/2009	<10					
Propionitrile	7440-66-6	ug/L	5/10/2010	<10					
Propionitrile	7440-66-6	ug/L	3/30/2013			<10	<10		
Propionitrile	7440-66-6	ug/L	10/5/2015	<10					
Propionitrile	7440-66-6	ug/L	3/30/2020	<10					
Pyrene	7440-66-6	ug/L	4/14/2009	<10					
Pyrene	7440-66-6	ug/L	5/10/2010	<10					
Pyrene	7440-66-6	ug/L	3/30/2013			<10	<10		
Pyrene	7440-66-6	ug/L	10/5/2015	<10					
Pyrene	7440-66-6	ug/L	3/30/2020	<10.4					
Safrole	7440-66-6	ug/L	4/14/2009	<10					
Safrole	7440-66-6	ug/L	5/10/2010	<10					
Safrole	7440-66-6	ug/L	3/30/2013			<10	<10		
Safrole	7440-66-6	ug/L	10/5/2015	<10					
Safrole	7440-66-6	ug/L	3/30/2020	<10.4					
Selenium	7440-66-6	mg/L	2/27/2008	<0.01	<0.01				
Selenium	7440-66-6	mg/L	5/12/2008	<0.01	<0.01				
Selenium	7440-66-6	mg/L	7/13/2008	<0.01	<0.01				
Selenium	7440-66-6	mg/L	9/14/2008	<0.01	<0.01				
Selenium	7440-66-6	mg/L	11/17/2008	<0.005	<0.005				
Selenium	7440-66-6	mg/L	4/14/2009	<0.01					
Selenium	7440-66-6	mg/L	10/25/2009	<0.01					
Selenium	7440-66-6	mg/L	5/10/2010	0.0055					
Selenium	7440-66-6	mg/L	8/11/2011			<0.01			
Selenium	7440-66-6	mg/L	10/13/2011			<0.005			
Selenium	7440-66-6	mg/L	12/5/2011			<0.005			
Selenium	7440-66-6	mg/L	4/11/2012	<0.005		<0.005	<0.005		
Selenium	7440-66-6	mg/L	6/25/2012			<0.005	<0.005		
Selenium	7440-66-6	mg/L	8/1/2012			<0.005	<0.005		
Selenium	7440-66-6	mg/L	10/11/2012	<0.005		<0.005	0.00702		
Selenium	7440-66-6	mg/L	12/13/2012				<0.005		
Selenium	7440-66-6	mg/L	3/30/2013	<0.005		<0.005	<0.005		
Selenium	7440-66-6	mg/L	10/7/2013	<0.005		<0.005	<0.005		
Selenium	7440-66-6	mg/L	6/2/2014	<0.005					

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Selenium	7440-66-6	mg/L	10/15/2014	<0.005					
Selenium	7440-66-6	mg/L	4/6/2015	<0.005					
Selenium	7440-66-6	mg/L	10/5/2015	<0.005					
Selenium	7440-66-6	mg/L	4/4/2016	<0.005					
Selenium	7440-66-6	mg/L	10/17/2016	<0.005					
Selenium	7440-66-6	mg/L	4/17/2017	<0.005					
Selenium	7440-66-6	mg/L	10/11/2017	<0.005					
Selenium	7440-66-6	mg/L	4/25/2018	<0.005					
Selenium	7440-66-6	mg/L	10/16/2018	<0.0025					
Selenium	7440-66-6	mg/L	4/16/2019	<0.005					
Selenium	7440-66-6	mg/L	10/1/2019	<0.005					
Selenium	7440-66-6	mg/L	3/30/2020	<0.005					
Selenium	7440-66-6	mg/L	10/7/2020	<0.005					
Selenium	7440-66-6	mg/L	4/13/2021	<0.004					
Selenium	7440-66-6	mg/L	10/20/2021	<0.004	0.0029J	0.0044	<0.004	<0.004	<0.004
Selenium	7440-66-6	mg/L	5/2/2022	<0.004	0.0028J	0.002J	<0.004	<0.004	<0.004
Selenium	7440-66-6	mg/L	10/14/2022	<0.004	0.0031J	<0.004	<0.004	<0.004	<0.004
Selenium	7440-66-6	mg/L	5/1/2023	<0.005	0.00286J; 0.00284J	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	10/16/2023	<0.005	0.00389J	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	4/29/2024	<0.005	0.00375J	<0.005	<0.005	0.0371	<0.005
Selenium	7440-66-6	mg/L	10/10/2024	<0.00500		<0.00500		<0.00500	
Selenium	7440-66-6	mg/L	10/9/2024		0.00519		<0.00500		
Selenium	7440-66-6	mg/L	10/14/2024						<0.00500
Silver	7440-66-6	mg/L	2/27/2008	<0.01	<0.01				
Silver	7440-66-6	mg/L	5/12/2008	<0.01	<0.01				
Silver	7440-66-6	mg/L	7/13/2008	<0.01	<0.01				
Silver	7440-66-6	mg/L	9/14/2008	<0.01	<0.01				
Silver	7440-66-6	mg/L	11/17/2008	<0.02	<0.02				
Silver	7440-66-6	mg/L	4/14/2009	<0.01					
Silver	7440-66-6	mg/L	10/25/2009	<0.025					
Silver	7440-66-6	mg/L	5/10/2010	<0.02					
Silver	7440-66-6	mg/L	8/11/2011			<0.025			
Silver	7440-66-6	mg/L	10/13/2011			<0.02			
Silver	7440-66-6	mg/L	12/5/2011			<0.02			
Silver	7440-66-6	mg/L	4/11/2012	<0.02		<0.02	<0.02		
Silver	7440-66-6	mg/L	6/25/2012			<0.02	<0.02		
Silver	7440-66-6	mg/L	8/1/2012			<0.02	<0.02		
Silver	7440-66-6	mg/L	10/11/2012	<0.02		<0.02	<0.02		
Silver	7440-66-6	mg/L	12/13/2012				<0.02		
Silver	7440-66-6	mg/L	3/30/2013	<0.02		<0.02	<0.02		
Silver	7440-66-6	mg/L	10/7/2013	<0.02		<0.02	<0.02		
Silver	7440-66-6	mg/L	6/2/2014	<0.02					
Silver	7440-66-6	mg/L	10/15/2014	<0.02					
Silver	7440-66-6	mg/L	4/6/2015	<0.001					
Silver	7440-66-6	mg/L	10/5/2015	<0.001					
Silver	7440-66-6	mg/L	4/4/2016	<0.001					
Silver	7440-66-6	mg/L	10/17/2016	<0.001					
Silver	7440-66-6	mg/L	4/17/2017	<0.001					
Silver	7440-66-6	mg/L	10/11/2017	<0.001					
Silver	7440-66-6	mg/L	4/25/2018	<0.001					
Silver	7440-66-6	mg/L	10/16/2018	<0.0005					
Silver	7440-66-6	mg/L	4/16/2019	<0.001					
Silver	7440-66-6	mg/L	10/1/2019	<0.001					
Silver	7440-66-6	mg/L	3/30/2020	<0.001					
Silver	7440-66-6	mg/L	10/7/2020	<0.001					
Silver	7440-66-6	mg/L	4/13/2021	<0.004					
Silver	7440-66-6	mg/L	10/20/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Silver	7440-66-6	mg/L	5/2/2022	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Silver	7440-66-6	mg/L	10/14/2022	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Silver	7440-66-6	mg/L	5/1/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	4/29/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/10/2024	<0.00100		<0.00100		<0.00100	
Silver	7440-66-6	mg/L	10/9/2024		<0.00100		<0.00100		
Silver	7440-66-6	mg/L	10/14/2024						<0.00100
Sodium	7440-66-6	mg/L	6/2/2014	12.4; 12.2					
Sodium	7440-66-6	mg/L	10/15/2014	12.2		6.44			
Styrene	7440-66-6	ug/L	2/27/2008	<1	<1				
Styrene	7440-66-6	ug/L	5/12/2008	<1	<1				
Styrene	7440-66-6	ug/L	7/13/2008	<1	<1				
Styrene	7440-66-6	ug/L	9/14/2008	<1	<1				
Styrene	7440-66-6	ug/L	11/17/2008	<1	<1				
Styrene	7440-66-6	ug/L	4/14/2009	<1					
Styrene	7440-66-6	ug/L	10/25/2009	<2					
Styrene	7440-66-6	ug/L	5/10/2010	<4					
Styrene	7440-66-6	ug/L	11/1/2010	<1					
Styrene	7440-66-6	ug/L	8/11/2011			<1			
Styrene	7440-66-6	ug/L	10/13/2011	<1		<1			
Styrene	7440-66-6	ug/L	12/5/2011			<1			
Styrene	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
Styrene	7440-66-6	ug/L	6/25/2012			<1	<1		
Styrene	7440-66-6	ug/L	8/1/2012			<1	<1		
Styrene	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
Styrene	7440-66-6	ug/L	12/13/2012				<1		
Styrene	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
Styrene	7440-66-6	ug/L	10/7/2013				<1		
Styrene	7440-66-6	ug/L	6/2/2014	<1					
Styrene	7440-66-6	ug/L	10/15/2014	<1					
Styrene	7440-66-6	ug/L	4/6/2015	<1					
Styrene	7440-66-6	ug/L	10/5/2015	<1					
Styrene	7440-66-6	ug/L	4/4/2016	<1					
Styrene	7440-66-6	ug/L	10/17/2016	<1					
Styrene	7440-66-6	ug/L	4/17/2017	<1					
Styrene	7440-66-6	ug/L	10/11/2017	<1					
Styrene	7440-66-6	ug/L	4/25/2018	<1					
Styrene	7440-66-6	ug/L	10/16/2018	<1					
Styrene	7440-66-6	ug/L	4/16/2019	<1					
Styrene	7440-66-6	ug/L	10/1/2019	<1					
Styrene	7440-66-6	ug/L	3/30/2020	<1					
Styrene	7440-66-6	ug/L	10/7/2020	<1					
Styrene	7440-66-6	ug/L	4/13/2021	<1					
Styrene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
Styrene	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
Styrene	7440-66-6	ug/L	10/14/2024						<1.00
Sulfate	7440-66-6	mg/L	6/2/2014	45.2					
Sulfate	7440-66-6	mg/L	10/15/2014	38.4		14.9			
Sulfate	7440-66-6	mg/L	4/6/2015	32.6	13.1	15.4	19.6		
Sulfate	7440-66-6	mg/L	10/5/2015	35.2	12.8	15.1	20.5		

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Sulfate	7440-66-6	mg/L	4/4/2016	34.1	11.7	14.5	24.1		
Sulfate	7440-66-6	mg/L	10/17/2016	25.4	8.03	11.6	23.7		
Sulfide	7440-66-6	mg/L	4/14/2009	<1					
Sulfide	7440-66-6	mg/L	5/10/2010	<1					
Sulfide	7440-66-6	mg/L	3/30/2013			<1	<1		
Sulfide	7440-66-6	mg/L	10/5/2015	<1					
Sulfide	7440-66-6	mg/L	3/30/2020	<1					
Tetrachloroethene	7440-66-6	ug/L	2/27/2008	<1	<1				
Tetrachloroethene	7440-66-6	ug/L	5/12/2008	<1	<1				
Tetrachloroethene	7440-66-6	ug/L	7/13/2008	<1	<1				
Tetrachloroethene	7440-66-6	ug/L	9/14/2008	<1	<1				
Tetrachloroethene	7440-66-6	ug/L	11/17/2008	<1	<1				
Tetrachloroethene	7440-66-6	ug/L	4/14/2009	<1					
Tetrachloroethene	7440-66-6	ug/L	10/25/2009	<1					
Tetrachloroethene	7440-66-6	ug/L	5/10/2010	<1					
Tetrachloroethene	7440-66-6	ug/L	11/1/2010	<1					
Tetrachloroethene	7440-66-6	ug/L	8/11/2011			<1			
Tetrachloroethene	7440-66-6	ug/L	10/13/2011	<1		<1			
Tetrachloroethene	7440-66-6	ug/L	12/5/2011			<1			
Tetrachloroethene	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
Tetrachloroethene	7440-66-6	ug/L	6/25/2012			<1	<1		
Tetrachloroethene	7440-66-6	ug/L	8/1/2012			<1	<1		
Tetrachloroethene	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
Tetrachloroethene	7440-66-6	ug/L	12/13/2012				<1		
Tetrachloroethene	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
Tetrachloroethene	7440-66-6	ug/L	10/7/2013				<1		
Tetrachloroethene	7440-66-6	ug/L	6/2/2014	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	10/15/2014	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	4/6/2015	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	10/5/2015	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	4/4/2016	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	10/17/2016	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	4/17/2017	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	10/11/2017	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	4/24/2018				<1		
Tetrachloroethene	7440-66-6	ug/L	4/25/2018	<1					
Tetrachloroethene	7440-66-6	ug/L	10/16/2018	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	4/16/2019	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	10/1/2019	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	3/30/2020	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	10/7/2020	<1					
Tetrachloroethene	7440-66-6	ug/L	4/13/2021	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
Tetrachloroethene	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
Tetrachloroethene	7440-66-6	ug/L	10/14/2024						<1.00
Thallium	7440-66-6	mg/L	2/27/2008	<0.002	<0.002				
Thallium	7440-66-6	mg/L	5/12/2008	<0.002	<0.002				
Thallium	7440-66-6	mg/L	7/13/2008	<0.002	<0.002				
Thallium	7440-66-6	mg/L	9/14/2008	<0.002	<0.002				
Thallium	7440-66-6	mg/L	11/17/2008	<0.002	<0.002				
Thallium	7440-66-6	mg/L	4/14/2009	<0.002					

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Thallium	7440-66-6	mg/L	10/25/2009	<0.002					
Thallium	7440-66-6	mg/L	5/10/2010	<0.0004					
Thallium	7440-66-6	mg/L	11/1/2010	<0.002					
Thallium	7440-66-6	mg/L	8/11/2011			<0.002			
Thallium	7440-66-6	mg/L	10/13/2011			<0.002			
Thallium	7440-66-6	mg/L	12/5/2011			<0.002			
Thallium	7440-66-6	mg/L	4/11/2012	<0.002		<0.002	<0.002		
Thallium	7440-66-6	mg/L	6/25/2012			<0.002	<0.002		
Thallium	7440-66-6	mg/L	8/1/2012			<0.002	<0.002		
Thallium	7440-66-6	mg/L	10/11/2012	<0.002		<0.002	<0.002		
Thallium	7440-66-6	mg/L	12/13/2012				<0.002		
Thallium	7440-66-6	mg/L	3/30/2013	<0.002		<0.002	<0.002		
Thallium	7440-66-6	mg/L	10/7/2013	<0.002		<0.002	<0.002		
Thallium	7440-66-6	mg/L	6/2/2014	0.0007J; <0.002					
Thallium	7440-66-6	mg/L	10/15/2014	<0.002					
Thallium	7440-66-6	mg/L	4/6/2015	<0.001					
Thallium	7440-66-6	mg/L	10/5/2015	<0.001					
Thallium	7440-66-6	mg/L	4/4/2016	<0.001					
Thallium	7440-66-6	mg/L	10/17/2016	<0.001					
Thallium	7440-66-6	mg/L	4/17/2017	<0.001					
Thallium	7440-66-6	mg/L	10/11/2017	<0.001					
Thallium	7440-66-6	mg/L	4/25/2018	<0.001					
Thallium	7440-66-6	mg/L	10/16/2018	<0.002					
Thallium	7440-66-6	mg/L	4/16/2019	<0.001					
Thallium	7440-66-6	mg/L	10/1/2019	<0.001					
Thallium	7440-66-6	mg/L	3/30/2020	<0.001					
Thallium	7440-66-6	mg/L	10/7/2020	<0.001					
Thallium	7440-66-6	mg/L	4/13/2021	<0.002					
Thallium	7440-66-6	mg/L	10/20/2021	0.0003J	<0.002	<0.002	0.0003J	<0.002	<0.002
Thallium	7440-66-6	mg/L	5/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	10/14/2022	<0.002	<0.002	<0.002	<0.002	0.0004J	0.0011J
Thallium	7440-66-6	mg/L	5/1/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	4/29/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/10/2024	<0.00100		<0.00100		0.000668J	
Thallium	7440-66-6	mg/L	10/9/2024		<0.00100		0.000628J		
Thallium	7440-66-6	mg/L	10/14/2024						<0.00100
Thionazin	7440-66-6	ug/L	4/14/2009	<10					
Thionazin	7440-66-6	ug/L	5/10/2010	<10					
Thionazin	7440-66-6	ug/L	3/30/2013			<10	<10		
Thionazin	7440-66-6	ug/L	10/5/2015	<10					
Thionazin	7440-66-6	ug/L	3/30/2020	<10.4					
Tin	7440-66-6	mg/L	4/14/2009	<0.1					
Tin	7440-66-6	mg/L	5/10/2010	<0.1					
Tin	7440-66-6	mg/L	3/30/2013			<0.1	<0.1		
Tin	7440-66-6	mg/L	10/5/2015	<0.005					
Tin	7440-66-6	mg/L	3/30/2020	<0.005					
Toluene	7440-66-6	ug/L	2/27/2008	<1	<1				
Toluene	7440-66-6	ug/L	5/12/2008	<1	<1				
Toluene	7440-66-6	ug/L	7/13/2008	<1	<1				
Toluene	7440-66-6	ug/L	9/14/2008	<1	<1				
Toluene	7440-66-6	ug/L	11/17/2008	<1	<1				
Toluene	7440-66-6	ug/L	4/14/2009	<1					
Toluene	7440-66-6	ug/L	10/25/2009	<1					
Toluene	7440-66-6	ug/L	5/10/2010	<1					
Toluene	7440-66-6	ug/L	11/1/2010	<1					
Toluene	7440-66-6	ug/L	8/11/2011			<1			

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Toluene	7440-66-6	ug/L	10/13/2011	<1		<1			
Toluene	7440-66-6	ug/L	12/5/2011			<1			
Toluene	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
Toluene	7440-66-6	ug/L	6/25/2012			<1	<1		
Toluene	7440-66-6	ug/L	8/1/2012			<1	<1		
Toluene	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
Toluene	7440-66-6	ug/L	12/13/2012				<1		
Toluene	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
Toluene	7440-66-6	ug/L	10/7/2013				<1		
Toluene	7440-66-6	ug/L	6/2/2014	<1					
Toluene	7440-66-6	ug/L	10/15/2014	<1					
Toluene	7440-66-6	ug/L	4/6/2015	<1					
Toluene	7440-66-6	ug/L	10/5/2015	<1					
Toluene	7440-66-6	ug/L	4/4/2016	<1					
Toluene	7440-66-6	ug/L	10/17/2016	<1					
Toluene	7440-66-6	ug/L	4/17/2017	<1					
Toluene	7440-66-6	ug/L	10/11/2017	<1					
Toluene	7440-66-6	ug/L	4/25/2018	<1					
Toluene	7440-66-6	ug/L	10/16/2018	<1					
Toluene	7440-66-6	ug/L	4/16/2019	<1					
Toluene	7440-66-6	ug/L	10/1/2019	<1					
Toluene	7440-66-6	ug/L	3/30/2020	<1					
Toluene	7440-66-6	ug/L	10/7/2020	4.07					
Toluene	7440-66-6	ug/L	4/13/2021	<1					
Toluene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	0.3J	<1	<1
Toluene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
Toluene	7440-66-6	ug/L	10/9/2024		2.31		<1.00		
Toluene	7440-66-6	ug/L	10/14/2024						<1.00
Total Organic Carbon	7440-66-6	mg/L	4/6/2015	1.22	0.774J	0.507J	0.451J		
Total Organic Carbon	7440-66-6	mg/L	10/5/2015	1.32	0.582J	0.491J	0.426J		
Total Organic Carbon	7440-66-6	mg/L	4/4/2016	1.17	0.633J	<1	<1		
Total Organic Carbon	7440-66-6	mg/L	10/17/2016	1.59	0.75J	<1	0.702J		
Total Suspended Solids	7440-66-6	mg/L	6/2/2014	26.4	79.2		<5		
Total Suspended Solids	7440-66-6	mg/L	10/15/2014	45.3	9.12		<1.88		
Total Suspended Solids	7440-66-6	mg/L	4/6/2015	17.7	<4.35	<2.5	<8.93		
Total Suspended Solids	7440-66-6	mg/L	10/5/2015	28.6	2.13	<1.88	<1.88		
Total Suspended Solids	7440-66-6	mg/L	4/4/2016	30.4	<1.88	<1.88	<1.88		
Total Suspended Solids	7440-66-6	mg/L	10/17/2016	29	0.625J	2.5	<1.88		
Total Suspended Solids	7440-66-6	mg/L	4/17/2017	35; 35.4	0.875J	<1.88	0.625J		
Total Suspended Solids	7440-66-6	mg/L	10/11/2017	29.6	0.875J	5.25	4.13		
Total Suspended Solids	7440-66-6	mg/L	4/24/2018		1.38J		<1.88		
Total Suspended Solids	7440-66-6	mg/L	4/25/2018	50.9		0.75J			
Total Suspended Solids	7440-66-6	mg/L	10/16/2018	33	5.25	2.63	4.13	2.5	
Total Suspended Solids	7440-66-6	mg/L	4/16/2019	71; 62	0.75J	4.13	1.25J	2.75	
Total Suspended Solids	7440-66-6	mg/L	10/1/2019	23.9	2.13	2.63	1.75J	<1.88	19.3
Total Suspended Solids	7440-66-6	mg/L	3/30/2020	25.9	0.875J	2.25	0.875J	2.88	<1.88
Total Suspended Solids	7440-66-6	mg/L	10/7/2020	4	<1.88	1J		11	<1.88
Total Suspended Solids	7440-66-6	mg/L	4/13/2021	32	5	2	2	4	<2
Total Suspended Solids	7440-66-6	mg/L	10/20/2021	38	3	<1	9	2	4
Total Suspended Solids	7440-66-6	mg/L	5/2/2022	36; 40	<2	<2	<2	<2	<2
Total Suspended Solids	7440-66-6	mg/L	10/14/2022	41	2	5	10	40	<2
Total Suspended Solids	7440-66-6	mg/L	5/1/2023	42	4.88; 1.25J	<1.88	<1.88	5.37	0.875J

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Total Suspended Solids	7440-66-6	mg/L	10/16/2023	42	2.38	1.25J	1.25J	10.3	1.13J
Total Suspended Solids	7440-66-6	mg/L	4/29/2024	34.5	48.4	2.25	1.5J	9.38	1.5J
Total Suspended Solids	7440-66-6	mg/L	10/10/2024	42		1.63J		20.6	
Total Suspended Solids	7440-66-6	mg/L	10/9/2024		1.88		2.63		
Total Suspended Solids	7440-66-6	mg/L	10/14/2024						1.50J
Toxaphene	7440-66-6	ug/L	4/14/2009	<2					
Toxaphene	7440-66-6	ug/L	5/10/2010	<2					
Toxaphene	7440-66-6	ug/L	3/30/2013			<2	<2		
Toxaphene	7440-66-6	ug/L	10/5/2015	<2					
Toxaphene	7440-66-6	ug/L	3/30/2020	<2.08					
trans-1,2-Dichloroethene	7440-66-6	ug/L	2/27/2008	<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/12/2008	<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/13/2008	<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	9/14/2008	<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	11/17/2008	<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/14/2009	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/25/2009	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/10/2010	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	11/1/2010	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	8/11/2011			<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/13/2011	<1		<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	12/5/2011			<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
trans-1,2-Dichloroethene	7440-66-6	ug/L	6/25/2012			<1	<1		
trans-1,2-Dichloroethene	7440-66-6	ug/L	8/1/2012			<1	<1		
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
trans-1,2-Dichloroethene	7440-66-6	ug/L	12/13/2012				<1		
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2013				<1		
trans-1,2-Dichloroethene	7440-66-6	ug/L	6/2/2014	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/15/2014	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/6/2015	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/5/2015	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2016	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/17/2016	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/17/2017	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2017	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/25/2018	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2018	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/16/2019	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/1/2019	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2020	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2020	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/13/2021	<1					
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2024						<1.00
trans-1,3-Dichloropropene	7440-66-6	ug/L	2/27/2008	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/12/2008	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	7/13/2008	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	9/14/2008	<5	<5				

Table 9A
Analytical Data Summary - AZPOC Wells
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
trans-1,3-Dichloropropene	7440-66-6	ug/L	11/17/2008	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/14/2009	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/25/2009	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/10/2010	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	11/1/2010	<10					
trans-1,3-Dichloropropene	7440-66-6	ug/L	8/11/2011			<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/13/2011	<5		<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	12/5/2011			<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/11/2012	<5		<5	<5		
trans-1,3-Dichloropropene	7440-66-6	ug/L	6/25/2012			<5	<5		
trans-1,3-Dichloropropene	7440-66-6	ug/L	8/1/2012			<5	<5		
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2012	<5		<5	<5		
trans-1,3-Dichloropropene	7440-66-6	ug/L	12/13/2012				<5		
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2013	<5		<5	<5		
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2013				<5		
trans-1,3-Dichloropropene	7440-66-6	ug/L	6/2/2014	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/15/2014	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/6/2015	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/5/2015	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2016	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/17/2016	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/17/2017	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2017	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/25/2018	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2018	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/16/2019	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/1/2019	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2020	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2020	<5					
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/13/2021	<1					
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	0.5J
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/10/2024	<5.00		<5.00		<5.00	
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/9/2024		<5.00		<5.00		
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/14/2024						<5.00
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	2/27/2008	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/12/2008	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	7/13/2008	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	9/14/2008	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	11/17/2008	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/14/2009	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/25/2009	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/10/2010	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	11/1/2010	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	8/11/2011			<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/13/2011	<10		<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	12/5/2011			<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/11/2012	<20		<20	<10		
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	6/25/2012			<10	<10		
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	8/1/2012			<10	<10		
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/11/2012	<10		<10	<10		
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	12/13/2012				<10		
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/30/2013	<10		<10	<10		

Table 9A
Analytical Data Summary - AZPOC Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/7/2013				<10		
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	6/2/2014	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/15/2014	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/6/2015	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/5/2015	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/4/2016	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/17/2016	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/17/2017	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/11/2017	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/25/2018	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/16/2018	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/16/2019	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/1/2019	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/30/2020	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/7/2020	<10					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/13/2021	<5					
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/2/2022	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/14/2022	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/10/2024	<10.0		<10.0		<10.0	
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/9/2024		<10.0		<10.0		
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/14/2024						<10.0
Trichloroethene	7440-66-6	ug/L	2/27/2008	<1	<1				
Trichloroethene	7440-66-6	ug/L	5/12/2008	<1	<1				
Trichloroethene	7440-66-6	ug/L	7/13/2008	<1	<1				
Trichloroethene	7440-66-6	ug/L	9/14/2008	<1	<1				
Trichloroethene	7440-66-6	ug/L	11/17/2008	<1	<1				
Trichloroethene	7440-66-6	ug/L	4/14/2009	<1					
Trichloroethene	7440-66-6	ug/L	10/25/2009	<1					
Trichloroethene	7440-66-6	ug/L	5/10/2010	<1					
Trichloroethene	7440-66-6	ug/L	11/1/2010	<1					
Trichloroethene	7440-66-6	ug/L	8/1/2011			<1			
Trichloroethene	7440-66-6	ug/L	10/13/2011	<1		<1			
Trichloroethene	7440-66-6	ug/L	12/5/2011			<1			
Trichloroethene	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
Trichloroethene	7440-66-6	ug/L	6/25/2012			<1	<1		
Trichloroethene	7440-66-6	ug/L	8/1/2012			<1	<1		
Trichloroethene	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
Trichloroethene	7440-66-6	ug/L	12/13/2012				<1		
Trichloroethene	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
Trichloroethene	7440-66-6	ug/L	10/7/2013				<1		
Trichloroethene	7440-66-6	ug/L	6/2/2014	<1			<1		
Trichloroethene	7440-66-6	ug/L	10/15/2014	<1			<1		
Trichloroethene	7440-66-6	ug/L	4/6/2015	<1			<1		
Trichloroethene	7440-66-6	ug/L	10/5/2015	<1			<1		
Trichloroethene	7440-66-6	ug/L	4/4/2016	<1			<1		
Trichloroethene	7440-66-6	ug/L	10/17/2016	<1			<1		
Trichloroethene	7440-66-6	ug/L	4/17/2017	<1			<1		
Trichloroethene	7440-66-6	ug/L	10/11/2017	<1			<1		
Trichloroethene	7440-66-6	ug/L	4/24/2018				<1		
Trichloroethene	7440-66-6	ug/L	4/25/2018	<1					
Trichloroethene	7440-66-6	ug/L	10/16/2018	<1			<1		
Trichloroethene	7440-66-6	ug/L	4/16/2019	<1			<1		
Trichloroethene	7440-66-6	ug/L	10/1/2019	<1			<1		

Table 9A
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Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Trichloroethene	7440-66-6	ug/L	3/30/2020	<1			<1		
Trichloroethene	7440-66-6	ug/L	10/7/2020	<1					
Trichloroethene	7440-66-6	ug/L	4/13/2021	<1			<1		
Trichloroethene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
Trichloroethene	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
Trichloroethene	7440-66-6	ug/L	10/14/2024						<1.00
Trichlorofluoromethane	7440-66-6	ug/L	2/27/2008	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	5/12/2008	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	7/13/2008	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	9/14/2008	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	11/17/2008	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	4/14/2009	<4					
Trichlorofluoromethane	7440-66-6	ug/L	10/25/2009	<4					
Trichlorofluoromethane	7440-66-6	ug/L	5/10/2010	<4					
Trichlorofluoromethane	7440-66-6	ug/L	11/1/2010	<4					
Trichlorofluoromethane	7440-66-6	ug/L	8/11/2011			<4			
Trichlorofluoromethane	7440-66-6	ug/L	10/13/2011	<4		<4			
Trichlorofluoromethane	7440-66-6	ug/L	12/5/2011			<4			
Trichlorofluoromethane	7440-66-6	ug/L	4/11/2012	<4		<4	<4		
Trichlorofluoromethane	7440-66-6	ug/L	6/25/2012			<4	<4		
Trichlorofluoromethane	7440-66-6	ug/L	8/1/2012			<4	<4		
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2012	<4		<4	<4		
Trichlorofluoromethane	7440-66-6	ug/L	12/13/2012			<4	<4		
Trichlorofluoromethane	7440-66-6	ug/L	3/30/2013	<4		<4	<4		
Trichlorofluoromethane	7440-66-6	ug/L	10/7/2013				<4		
Trichlorofluoromethane	7440-66-6	ug/L	6/2/2014	<4					
Trichlorofluoromethane	7440-66-6	ug/L	10/15/2014	<4					
Trichlorofluoromethane	7440-66-6	ug/L	4/6/2015	<4					
Trichlorofluoromethane	7440-66-6	ug/L	10/5/2015	<4					
Trichlorofluoromethane	7440-66-6	ug/L	4/4/2016	<4					
Trichlorofluoromethane	7440-66-6	ug/L	10/17/2016	<4					
Trichlorofluoromethane	7440-66-6	ug/L	4/17/2017	<4					
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2017	<4					
Trichlorofluoromethane	7440-66-6	ug/L	4/25/2018	<4					
Trichlorofluoromethane	7440-66-6	ug/L	10/16/2018	<4					
Trichlorofluoromethane	7440-66-6	ug/L	4/16/2019	<4					
Trichlorofluoromethane	7440-66-6	ug/L	10/1/2019	<4					
Trichlorofluoromethane	7440-66-6	ug/L	3/30/2020	<4					
Trichlorofluoromethane	7440-66-6	ug/L	10/7/2020	<4					
Trichlorofluoromethane	7440-66-6	ug/L	4/13/2021	<1					
Trichlorofluoromethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	5/1/2023	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/16/2023	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/29/2024	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/10/2024	<4.00		<4.00		<4.00	
Trichlorofluoromethane	7440-66-6	ug/L	10/9/2024		<4.00		<4.00		
Trichlorofluoromethane	7440-66-6	ug/L	10/14/2024						<4.00
Vanadium	7440-66-6	mg/L	2/27/2008	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	5/12/2008	<0.05	<0.05				

Table 9A
Analytical Data Summary - AZPOC Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Vanadium	7440-66-6	mg/L	7/13/2008	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	9/14/2008	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	11/17/2008	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	4/14/2009	<0.05					
Vanadium	7440-66-6	mg/L	10/25/2009	<0.05					
Vanadium	7440-66-6	mg/L	5/10/2010	<0.05					
Vanadium	7440-66-6	mg/L	11/1/2010	<0.05					
Vanadium	7440-66-6	mg/L	8/11/2011			<0.05			
Vanadium	7440-66-6	mg/L	10/13/2011			<0.05			
Vanadium	7440-66-6	mg/L	12/5/2011			<0.05			
Vanadium	7440-66-6	mg/L	4/11/2012	<0.05		<0.05	<0.05		
Vanadium	7440-66-6	mg/L	6/25/2012			<0.05	<0.05		
Vanadium	7440-66-6	mg/L	8/1/2012			<0.05	<0.05		
Vanadium	7440-66-6	mg/L	10/11/2012	<0.05		<0.05	<0.05		
Vanadium	7440-66-6	mg/L	12/13/2012				<0.05		
Vanadium	7440-66-6	mg/L	3/30/2013	<0.05		<0.05	<0.05		
Vanadium	7440-66-6	mg/L	10/7/2013	<0.05		<0.05	<0.05		
Vanadium	7440-66-6	mg/L	6/2/2014	<0.05					
Vanadium	7440-66-6	mg/L	10/15/2014	<0.05					
Vanadium	7440-66-6	mg/L	4/6/2015	<0.005					
Vanadium	7440-66-6	mg/L	10/5/2015	<0.005					
Vanadium	7440-66-6	mg/L	4/4/2016	<0.005					
Vanadium	7440-66-6	mg/L	10/17/2016	<0.005					
Vanadium	7440-66-6	mg/L	4/17/2017	<0.005					
Vanadium	7440-66-6	mg/L	10/11/2017	<0.005					
Vanadium	7440-66-6	mg/L	4/25/2018	<0.005					
Vanadium	7440-66-6	mg/L	10/16/2018	<0.005					
Vanadium	7440-66-6	mg/L	4/16/2019	<0.005					
Vanadium	7440-66-6	mg/L	10/1/2019	<0.005					
Vanadium	7440-66-6	mg/L	3/30/2020	<0.005					
Vanadium	7440-66-6	mg/L	10/7/2020	<0.005					
Vanadium	7440-66-6	mg/L	4/13/2021	<0.02					
Vanadium	7440-66-6	mg/L	10/20/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vanadium	7440-66-6	mg/L	5/2/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vanadium	7440-66-6	mg/L	10/14/2022	<0.02	<0.02	<0.02	<0.02	0.0171J	<0.02
Vanadium	7440-66-6	mg/L	5/1/2023	<0.005	<0.005	<0.005	<0.005	0.00333J	<0.005
Vanadium	7440-66-6	mg/L	10/16/2023	<0.005	0.00124J	<0.005	<0.005	0.0042J	0.00285J
Vanadium	7440-66-6	mg/L	4/29/2024	<0.005	0.00176J	<0.005	<0.005	0.00279J	<0.005
Vanadium	7440-66-6	mg/L	10/10/2024	<0.00500		<0.00500		0.00449J	
Vanadium	7440-66-6	mg/L	10/9/2024		0.00169J		<0.00500		
Vanadium	7440-66-6	mg/L	10/14/2024						<0.00500
Vinyl Acetate	7440-66-6	ug/L	2/27/2008	<2	<2				
Vinyl Acetate	7440-66-6	ug/L	5/12/2008	<2.5	<2.5				
Vinyl Acetate	7440-66-6	ug/L	7/13/2008	<2	<2				
Vinyl Acetate	7440-66-6	ug/L	9/14/2008	<2	<2				
Vinyl Acetate	7440-66-6	ug/L	11/17/2008	<2	<2				
Vinyl Acetate	7440-66-6	ug/L	4/14/2009	<2					
Vinyl Acetate	7440-66-6	ug/L	10/25/2009	<2					
Vinyl Acetate	7440-66-6	ug/L	5/10/2010	<2					
Vinyl Acetate	7440-66-6	ug/L	11/1/2010	<2					
Vinyl Acetate	7440-66-6	ug/L	8/11/2011			<2			
Vinyl Acetate	7440-66-6	ug/L	10/13/2011	<2		<2			
Vinyl Acetate	7440-66-6	ug/L	12/5/2011			<20			
Vinyl Acetate	7440-66-6	ug/L	4/11/2012	<20		<20	<20		
Vinyl Acetate	7440-66-6	ug/L	6/25/2012			<2	<2		
Vinyl Acetate	7440-66-6	ug/L	8/1/2012			<4	<4		
Vinyl Acetate	7440-66-6	ug/L	10/11/2012	<10		<10	<10		

Table 9A
Analytical Data Summary - AZPOC Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Vinyl Acetate	7440-66-6	ug/L	12/13/2012				<2		
Vinyl Acetate	7440-66-6	ug/L	3/30/2013	<2		<2	<2		
Vinyl Acetate	7440-66-6	ug/L	10/7/2013				<2		
Vinyl Acetate	7440-66-6	ug/L	6/2/2014	<2					
Vinyl Acetate	7440-66-6	ug/L	10/15/2014	<10					
Vinyl Acetate	7440-66-6	ug/L	4/6/2015	<10					
Vinyl Acetate	7440-66-6	ug/L	10/5/2015	<10					
Vinyl Acetate	7440-66-6	ug/L	4/4/2016	<10					
Vinyl Acetate	7440-66-6	ug/L	10/17/2016	<10					
Vinyl Acetate	7440-66-6	ug/L	4/17/2017	<10					
Vinyl Acetate	7440-66-6	ug/L	10/11/2017	<10					
Vinyl Acetate	7440-66-6	ug/L	4/25/2018	<10					
Vinyl Acetate	7440-66-6	ug/L	10/16/2018	<10					
Vinyl Acetate	7440-66-6	ug/L	4/16/2019	<10					
Vinyl Acetate	7440-66-6	ug/L	10/1/2019	<10					
Vinyl Acetate	7440-66-6	ug/L	3/30/2020	<10					
Vinyl Acetate	7440-66-6	ug/L	10/7/2020	<10					
Vinyl Acetate	7440-66-6	ug/L	4/13/2021	<5					
Vinyl Acetate	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5
Vinyl Acetate	7440-66-6	ug/L	5/2/2022	<5	<5	<5	<5	<5	<5
Vinyl Acetate	7440-66-6	ug/L	10/14/2022	<5	<5	<5	<5	<5	<5
Vinyl Acetate	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10
Vinyl acetate	7440-66-6	ug/L	10/10/2024	<10.0		<10.0		<10.0	
Vinyl acetate	7440-66-6	ug/L	10/9/2024		<10.0		<10.0		
Vinyl acetate	7440-66-6	ug/L	10/14/2024						<10.0
Vinyl Chloride	7440-66-6	ug/L	2/27/2008	<1	<1				
Vinyl Chloride	7440-66-6	ug/L	5/12/2008	<1	<1				
Vinyl Chloride	7440-66-6	ug/L	7/13/2008	<1	<1				
Vinyl Chloride	7440-66-6	ug/L	9/14/2008	<1	<1				
Vinyl Chloride	7440-66-6	ug/L	11/17/2008	<1	<1				
Vinyl Chloride	7440-66-6	ug/L	4/14/2009	<1					
Vinyl Chloride	7440-66-6	ug/L	10/25/2009	<1					
Vinyl Chloride	7440-66-6	ug/L	5/10/2010	<1					
Vinyl Chloride	7440-66-6	ug/L	11/1/2010	<1					
Vinyl Chloride	7440-66-6	ug/L	8/11/2011			<1			
Vinyl Chloride	7440-66-6	ug/L	10/13/2011	<1		<1			
Vinyl Chloride	7440-66-6	ug/L	12/5/2011			<1			
Vinyl Chloride	7440-66-6	ug/L	4/11/2012	<1		<1	<1		
Vinyl Chloride	7440-66-6	ug/L	6/25/2012			<1	<1		
Vinyl Chloride	7440-66-6	ug/L	8/1/2012			<1	<1		
Vinyl Chloride	7440-66-6	ug/L	10/11/2012	<1		<1	<1		
Vinyl Chloride	7440-66-6	ug/L	12/13/2012				<1		
Vinyl Chloride	7440-66-6	ug/L	3/30/2013	<1		<1	<1		
Vinyl Chloride	7440-66-6	ug/L	10/7/2013				<1		
Vinyl Chloride	7440-66-6	ug/L	6/2/2014	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	10/15/2014	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	4/6/2015	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	10/5/2015	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	4/4/2016	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	10/17/2016	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	4/17/2017	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	10/11/2017	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	4/24/2018				<1		
Vinyl Chloride	7440-66-6	ug/L	4/25/2018	<1					
Vinyl Chloride	7440-66-6	ug/L	10/16/2018	<1			<1		

Table 9A
Analytical Data Summary - AZPOC Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Vinyl Chloride	7440-66-6	ug/L	4/16/2019	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	10/1/2019	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	3/30/2020	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	10/7/2020	<1					
Vinyl Chloride	7440-66-6	ug/L	4/13/2021	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1
Vinyl chloride	7440-66-6	ug/L	10/10/2024	<1.00		<1.00		<1.00	
Vinyl chloride	7440-66-6	ug/L	10/9/2024		<1.00		<1.00		
Vinyl chloride	7440-66-6	ug/L	10/14/2024						<1.00
Xylenes, Total	7440-66-6	ug/L	2/27/2008	<3	<3				
Xylenes, Total	7440-66-6	ug/L	5/12/2008	<3	<3				
Xylenes, Total	7440-66-6	ug/L	7/13/2008	<3	<3				
Xylenes, Total	7440-66-6	ug/L	9/14/2008	<3	<3				
Xylenes, Total	7440-66-6	ug/L	11/17/2008	<3	<3				
Xylenes, Total	7440-66-6	ug/L	4/14/2009	<3					
Xylenes, Total	7440-66-6	ug/L	10/25/2009	<6					
Xylenes, Total	7440-66-6	ug/L	5/10/2010	<6					
Xylenes, Total	7440-66-6	ug/L	11/1/2010	<3					
Xylenes, Total	7440-66-6	ug/L	8/11/2011			<3			
Xylenes, Total	7440-66-6	ug/L	10/13/2011	<3		<3			
Xylenes, Total	7440-66-6	ug/L	12/5/2011			<3			
Xylenes, Total	7440-66-6	ug/L	4/11/2012	<3		<3	<3		
Xylenes, Total	7440-66-6	ug/L	6/25/2012			<3	<3		
Xylenes, Total	7440-66-6	ug/L	8/1/2012			<3	<3		
Xylenes, Total	7440-66-6	ug/L	10/11/2012	<3		<3	<3		
Xylenes, Total	7440-66-6	ug/L	12/13/2012				<3		
Xylenes, Total	7440-66-6	ug/L	3/30/2013	<3		<3	<3		
Xylenes, Total	7440-66-6	ug/L	10/7/2013				<3		
Xylenes, Total	7440-66-6	ug/L	6/2/2014	<3					
Xylenes, Total	7440-66-6	ug/L	10/15/2014	<3					
Xylenes, Total	7440-66-6	ug/L	4/6/2015	<3					
Xylenes, Total	7440-66-6	ug/L	10/5/2015	<3					
Xylenes, Total	7440-66-6	ug/L	4/4/2016	<3					
Xylenes, Total	7440-66-6	ug/L	10/17/2016	<3					
Xylenes, Total	7440-66-6	ug/L	4/17/2017	<3					
Xylenes, Total	7440-66-6	ug/L	10/11/2017	<3					
Xylenes, Total	7440-66-6	ug/L	4/25/2018	<3					
Xylenes, Total	7440-66-6	ug/L	10/16/2018	<3					
Xylenes, Total	7440-66-6	ug/L	4/16/2019	<3					
Xylenes, Total	7440-66-6	ug/L	10/1/2019	<3					
Xylenes, Total	7440-66-6	ug/L	3/30/2020	<3					
Xylenes, Total	7440-66-6	ug/L	10/7/2020	<3					
Xylenes, Total	7440-66-6	ug/L	4/13/2021	<2					
Xylenes, Total	7440-66-6	ug/L	10/20/2021	<2	<2	<2	<2	<2	<2
Xylenes, Total	7440-66-6	ug/L	5/2/2022	<2	<2	<2	<2	<2	<2
Xylenes, Total	7440-66-6	ug/L	10/14/2022	<2	<2	<2	<2	<2	<2
Xylenes, Total	7440-66-6	ug/L	5/1/2023	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/16/2023	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	4/29/2024	<3	<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/10/2024	<3.00		<3.00		<3.00	
Xylenes, Total	7440-66-6	ug/L	10/9/2024		<3.00		<3.00		
Xylenes, Total	7440-66-6	ug/L	10/14/2024						<3.00

Table 9A
Analytical Data Summary - AZPOC Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1B	MW-10B	MW-310A	MW-312A	MW-408	MW-410
				D	D	D	D	D	D
Zinc	7440-66-6	mg/L	2/27/2008	<0.1	<0.1				
Zinc	7440-66-6	mg/L	5/12/2008	<0.1	<0.1				
Zinc	7440-66-6	mg/L	7/13/2008	<0.1	<0.1				
Zinc	7440-66-6	mg/L	9/14/2008	<0.1	<0.1				
Zinc	7440-66-6	mg/L	11/17/2008	<0.02	<0.02				
Zinc	7440-66-6	mg/L	4/14/2009	<0.1					
Zinc	7440-66-6	mg/L	10/25/2009	<0.1					
Zinc	7440-66-6	mg/L	5/10/2010	<0.02					
Zinc	7440-66-6	mg/L	8/11/2011			<0.1			
Zinc	7440-66-6	mg/L	10/13/2011			<0.02			
Zinc	7440-66-6	mg/L	12/5/2011			<0.02			
Zinc	7440-66-6	mg/L	4/11/2012	<0.02		<0.02	0.022		
Zinc	7440-66-6	mg/L	6/25/2012			<0.02	<0.02		
Zinc	7440-66-6	mg/L	8/1/2012			<0.02	<0.02		
Zinc	7440-66-6	mg/L	10/11/2012	<0.02		<0.02	<0.02		
Zinc	7440-66-6	mg/L	12/13/2012				0.0209		
Zinc	7440-66-6	mg/L	3/30/2013	0.0458		0.0237	0.0259		
Zinc	7440-66-6	mg/L	10/7/2013	0.126; 0.124		0.0674	0.061		
Zinc	7440-66-6	mg/L	6/2/2014	<0.02					
Zinc	7440-66-6	mg/L	10/15/2014	<0.02					
Zinc	7440-66-6	mg/L	4/6/2015	<0.01					
Zinc	7440-66-6	mg/L	10/5/2015	<0.01					
Zinc	7440-66-6	mg/L	4/4/2016	<0.01					
Zinc	7440-66-6	mg/L	10/17/2016	<0.01					
Zinc	7440-66-6	mg/L	4/17/2017	<0.02					
Zinc	7440-66-6	mg/L	10/11/2017	<0.02					
Zinc	7440-66-6	mg/L	4/25/2018	<0.02					
Zinc	7440-66-6	mg/L	10/16/2018	<0.02					
Zinc	7440-66-6	mg/L	4/16/2019	<0.02					
Zinc	7440-66-6	mg/L	10/1/2019	<0.02					
Zinc	7440-66-6	mg/L	3/30/2020	<0.02					
Zinc	7440-66-6	mg/L	10/7/2020	<0.02					
Zinc	7440-66-6	mg/L	4/13/2021	<0.02					
Zinc	7440-66-6	mg/L	10/20/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	5/2/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/14/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	5/1/2023	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/16/2023	0.0102J	0.00681J	<0.02	<0.02	<0.02	0.00924J
Zinc	7440-66-6	mg/L	4/29/2024	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/10/2024	<0.0200		<0.0200		<0.0200	
Zinc	7440-66-6	mg/L	10/9/2024		<0.0200		<0.0200		
Zinc	7440-66-6	mg/L	10/14/2024						<0.0200

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/25/2009	<2	<5	<2	<2	<2	<2	<2	<20	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	1/2/2010						<4	<4	<40	<5
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/3/2010						<2	<2	<2	<2
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4	<4	<20	<4
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/1/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<2.1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/23/2018					<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/24/2018				<1			<1		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/25/2018			<1					<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/27/2018	<1	<1							
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
1,1,1-Trichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	1/2/2010						<4	<4	<40	<10
1,1,1-Trichloroethane	7440-66-6	ug/L	3/3/2010						<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	5/10/2010	<1	<4	<4	<4	<4	<4	<4	<20	<4
1,1,1-Trichloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/1/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1.2	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1

Table 9A
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
1,1,1-Trichloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/23/2018					<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	4/24/2018				<1			<1		
1,1,1-Trichloroethane	7440-66-6	ug/L	4/25/2018			<1					<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/27/2018	<1	<1							
1,1,1-Trichloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1				<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
1,1,1-Trichloroethane	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
1,1,1-Trichloroethane	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/25/2009	<2	<1	<2	<2	<2	<2	<2	<20	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	1/2/2010						<1	<1	<10	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/3/2010						<2	<2	<2	<2
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/10/2010	<4	<1	<1	<1	<1	<1	<1	<5	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/23/2018					<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/24/2018				<1			<1		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/25/2018			<1					<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/27/2018	<1	<1							
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1

Table 9A
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Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
1,1,2-Trichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/25/2009	<2	<1	<2	<2	<2	<2	<2	<20	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	1/2/2010						<1	<1	<10	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	3/3/2010						<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1.2	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
1,1,2-Trichloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/23/2018					<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	4/24/2018				<1			<1		
1,1,2-Trichloroethane	7440-66-6	ug/L	4/25/2018			<1					<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/27/2018	<1	<1							
1,1,2-Trichloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
1,1,2-Trichloroethane	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
1,1,2-Trichloroethane	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
1,1-Dichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	1.2	14.5				
1,1-Dichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	1.67	7.11				
1,1-Dichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	1.66	8.6				
1,1-Dichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	1.33	15.7				
1,1-Dichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	1.39	<1				
1,1-Dichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	15				
1,1-Dichloroethane	7440-66-6	ug/L	7/7/2009					15.5	27.9; 39	<1	<20	<1
1,1-Dichloroethane	7440-66-6	ug/L	9/2/2009					14	40.2	<1	<10	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	13.1	46.6	<1	<10	<1

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
1,1-Dichloroethane	7440-66-6	ug/L	1/2/2010					13	44.7	<1	<10	<1
1,1-Dichloroethane	7440-66-6	ug/L	3/3/2010						55.1	<1	1.17	<1
1,1-Dichloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	11.1	47.4	<1	<5	<1
1,1-Dichloroethane	7440-66-6	ug/L	7/8/2010						45.5			
1,1-Dichloroethane	7440-66-6	ug/L	9/13/2010						55.7			
1,1-Dichloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	14	57.4	<1	<5	<1
1,1-Dichloroethane	7440-66-6	ug/L	1/10/2011						42.4			
1,1-Dichloroethane	7440-66-6	ug/L	4/4/2011					13.3	39			
1,1-Dichloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	14.5	40.2	<1	<5	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	12.7	37.2	<1	<10	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	18.6	44.9	<1	<10	<1
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	16.7	39.6	<1	<2.1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2013		<1	<1	<1	14.4; 14.7	36.2	<1		<1
1,1-Dichloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	14.4	35.8	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	0.742J	14.3	47.2	<1	<10	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	0.802J	12.8	32.4	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	18.1	37.5	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	0.829J	11.6	31.2	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	0.939J	18.3	39.6	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	0.616J	10.5	35.3	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	0.727J	16	27.9	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/23/2018					13.1	28.6			
1,1-Dichloroethane	7440-66-6	ug/L	4/24/2018				<1			<1		
1,1-Dichloroethane	7440-66-6	ug/L	4/25/2018			<1					<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/27/2018	<1	<1							
1,1-Dichloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	13.4	23.6	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	0.535J	12.4	17.5	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	0.642J	15	29.5	<1	<10	<1
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	0.451J	10.4	16.4	<1	<5	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	0.421J	10	19.7	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	6.2	12.9	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	0.4J	10.6	16.6	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	7.7	14.5	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	8.8	11.2	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	7.15	12.7	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	8.74	10.8	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	0.228J	7.73	9.25	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/10/2024				0.259J	7.77	3.13			<1.00
1,1-Dichloroethane	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
1,1-Dichloroethane	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
1,1-Dichloroethane	7440-66-6	ug/L	2/27/2008	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	5/12/2008	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	7/13/2008	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	9/14/2008	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	11/17/2008	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2				
1,1-Dichloroethane	7440-66-6	ug/L	7/7/2009						<2	<2	<40	<2
1,1-Dichloroethane	7440-66-6	ug/L	9/2/2009						<2	<2	<20	<2
1,1-Dichloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<2	<2	<2	<20	<2
1,1-Dichloroethane	7440-66-6	ug/L	1/2/2010						<2	<2	<20	<2
1,1-Dichloroethane	7440-66-6	ug/L	3/3/2010						<2	<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	5/10/2010	<10	<2	<2	<2	<2	<2	<2	<10	<2
1,1-Dichloroethane	7440-66-6	ug/L	11/1/2010	<2	<2	<2	<2	<2	<2	<2	<10	<2
1,1-Dichloroethane	7440-66-6	ug/L	10/13/2011	<2	<2	<2	<2	<2	<2	<2	<10	<2
1,1-Dichloroethane	7440-66-6	ug/L	4/11/2012	<2	<2	<2	<2	<2	<2	<2	<20	<2
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2012	<2	<2	<2	<2	<2	<2	<2	<20	<2
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2013	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2013		<2	<2	<2	<2	<2	<2		<2
1,1-Dichloroethane	7440-66-6	ug/L	6/2/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	10/15/2014	<2	<2	<2	<2	<2	<2	<2	<20	<2
1,1-Dichloroethane	7440-66-6	ug/L	4/6/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	10/5/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethane	7440-66-6	ug/L	4/4/2016	<2	<2	<2	<2	<2	<2	<2	<2	<2

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
1,1-Dichloroethene	7440-66-6	ug/L	10/17/2016	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/17/2017	<2	<2	<2	<2	0.162J	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2017	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/23/2018					<2	<2			
1,1-Dichloroethene	7440-66-6	ug/L	4/24/2018				<2			<2		
1,1-Dichloroethene	7440-66-6	ug/L	4/25/2018			<2					<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/27/2018	<2	<2							
1,1-Dichloroethene	7440-66-6	ug/L	10/16/2018	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/16/2019	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/1/2019	<2	<2	<2	<2	<2	<2	<2	<20	<2
1,1-Dichloroethene	7440-66-6	ug/L	3/30/2020	<2	<2	<2	<2	<2	<2	<2	<10	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/7/2020	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	7440-66-6	ug/L	5/1/2023	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/16/2023	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	4/29/2024	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/10/2024				<2.00	<2.00	<2.00			<2.00
1,1-Dichloroethene	7440-66-6	ug/L	10/9/2024			<2.00				<2.00	<2.00	
1,1-Dichloroethene	7440-66-6	ug/L	10/14/2024	<2.00	<2.00							
1,1-Dichloropropene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
1,1-Dichloropropene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,1-Dichloropropene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/25/2009	<2	<1	<2	<2	<2	<2	<2	<20	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	1/2/2010						<1	<1	<10	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	3/3/2010						<2	<2	<2	<2
1,2,3-Trichloropropane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/13/2011	<4	<1	<1	<4	<4	<4	<4	<20	<4
1,2,3-Trichloropropane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1.9	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1		<1
1,2,3-Trichloropropane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/23/2018					<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	4/24/2018				<1			<1		
1,2,3-Trichloropropane	7440-66-6	ug/L	4/25/2018			<1					<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/27/2018	<1	<1							
1,2,3-Trichloropropane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
1,2,3-Trichloropropane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
1,2,3-Trichloropropane	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
1,2,4-Trichlorobenzene	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5				
1,2,4-Trichlorobenzene	7440-66-6	ug/L	5/10/2010	<5	<10	<10	<10	<10	<10	<10	<50	<10
1,2,4-Trichlorobenzene	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2,4-Trichlorobenzene	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<25	<5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/7/2009						<10	<10	<200	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	9/2/2009						<10	<10	<100	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10	<100	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	1/2/2010						<10	<10	<100	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/3/2010						<10	<10	<10	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10	<10	<10	<50	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/7/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	6/2/2014	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/15/2014	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<1.2	<0.12
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/6/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/5/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/4/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/17/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/17/2017	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2017	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/23/2018					<0.5	<0.5			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/24/2018				<0.5			<0.5		
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/25/2018			<0.5					<0.5	<0.5
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/27/2018	<0.5	<0.5							
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/16/2018	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/16/2019	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/1/2019	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/30/2020	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<6	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/7/2020	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/20/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/2/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/14/2022	<0.02	<0.02	<0.02; <5	<0.02; <5	<0.02; <5	<5; <0.02	<0.02; <5	<5; <0.02	<0.02
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/1/2023	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/16/2023	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/29/2024	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/10/2024			<1.20	<1.20	<1.20	<1.20			<1.20
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/9/2024			<1.20				<1.20	<1.20	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/14/2024	<1.20	<1.20							
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10				

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10				
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	7/7/2009						<10	<10	<200	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	9/2/2009						<10	<10	<100	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10	<100	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	1/2/2010						<10	<10	<100	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	3/3/2010						<10	<10	<10	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10	<10	<10	<50	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/7/2013		<10	<10	<10	<10	<10	<10		<10
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	6/2/2014	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/15/2014	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<1.3	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/6/2015	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/5/2015	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/4/2016	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/17/2016	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/17/2017	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/11/2017	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/23/2018					<0.13	<0.13			
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/24/2018				<0.13			<0.13		
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/25/2018			<0.13					<0.13	<0.13
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/27/2018	<0.13	<0.13							
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/16/2018	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/16/2019	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/1/2019	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<3.4	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	3/30/2020	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<1.7	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/7/2020	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/20/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/2/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/14/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	5/1/2023	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/16/2023	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	4/29/2024	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/10/2024				<0.340	<0.340	<0.340			<0.340
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/9/2024			<0.340				<0.340	<0.340	
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/14/2024	<0.340	<0.340							
1,2-Dichlorobenzene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/25/2009	<2	<1	<2	<2	<2	<2	<2	<20	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	1/2/2010						<1	<1	<10	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	3/3/2010						<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1.4	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
1,2-Dichlorobenzene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1

Table 9A
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
1,2-Dichlorobenzene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	0.193J	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/23/2018					<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	4/24/2018				<1			<1		
1,2-Dichlorobenzene	7440-66-6	ug/L	4/25/2018			<1					<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/27/2018	<1	<1							
1,2-Dichlorobenzene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
1,2-Dichlorobenzene	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
1,2-Dichloroethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	1.51				
1,2-Dichloroethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
1,2-Dichloroethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	1.17				
1,2-Dichloroethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	1.35				
1,2-Dichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	1.23				
1,2-Dichloroethane	7440-66-6	ug/L	7/7/2009					1.12	<1	<1	<20	<1
1,2-Dichloroethane	7440-66-6	ug/L	9/2/2009					1.33	<1	<1	<10	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/25/2009	<2	<1	<2	<2	<2	<2	<2	<20	<1
1,2-Dichloroethane	7440-66-6	ug/L	1/2/2010					1.37	<1	<1	<10	<1
1,2-Dichloroethane	7440-66-6	ug/L	3/3/2010						<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	1.08	<1	<1	<5	<1
1,2-Dichloroethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	1.34	1.02	<1	<5	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/4/2011					1.03				
1,2-Dichloroethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	1.3	<1	<1	<5	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	1.39	<1	<1	<10	<1
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	1.25	<1	<1	<1.8	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/7/2013		<1	<1	<1	1.21; 1.19	<1	<1		<1
1,2-Dichloroethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	1.37	0.588J	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	1.36	<1	<1	<10	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	1.19	0.538J	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	1.4	0.494J	<1	0.29J	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	0.966J	0.377J	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	1.59	0.61J	<1	0.314J	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	1.06	0.566J	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	1.4	0.418J	<1	0.239J	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/23/2018					1.23	0.406J			
1,2-Dichloroethane	7440-66-6	ug/L	4/24/2018				<1			<1		
1,2-Dichloroethane	7440-66-6	ug/L	4/25/2018			<1					0.223J	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/27/2018	<1	<1							
1,2-Dichloroethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	1.08	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	0.938J	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	1.35	0.465J	<1	<10	<1
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	0.864J	<1	<1	<5	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	0.957J	<1	0.455J	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	0.9J	<1	<1	<1	<1

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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
1,2-Dichloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	0.8J	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	0.807J	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	0.578J	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	4/29/2024	<1	0.888J	<1	<1	0.942J	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/10/2024				<1.00	0.793J	<1.00			<1.00
1,2-Dichloroethane	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
1,2-Dichloroethane	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
1,2-Dichloropropane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	5.01				
1,2-Dichloropropane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	1.83				
1,2-Dichloropropane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	2.34				
1,2-Dichloropropane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	4.84				
1,2-Dichloropropane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	4.77				
1,2-Dichloropropane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	4.42				
1,2-Dichloropropane	7440-66-6	ug/L	7/7/2009					4.63	<1	<1	<20	<1
1,2-Dichloropropane	7440-66-6	ug/L	9/2/2009					3.99	<1	<1	<10	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	4.29	<1	<1	<10	<1
1,2-Dichloropropane	7440-66-6	ug/L	1/2/2010					3.2	<1	<1	<10	<1
1,2-Dichloropropane	7440-66-6	ug/L	3/3/2010						<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	3.05	<1	<1	<5	<1
1,2-Dichloropropane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	4.69	<1	<1	<5	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/4/2011					4.89				
1,2-Dichloropropane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	4.94	<1	<1	<5	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	3.34	<1	<1	<10	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	5.84	<1	<1	<10	<1
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	5.22	<1	<1	<8.7	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/7/2013		<1	<1	<1	4.66, 4.62	<1	<1		<1
1,2-Dichloropropane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	4.65	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	3.88	<1	<1	<10	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	4.03	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	5.43	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	3.47	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	5.6	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	3.54	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	4.74	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/23/2018					4.21	<1			
1,2-Dichloropropane	7440-66-6	ug/L	4/24/2018				<1			<1		
1,2-Dichloropropane	7440-66-6	ug/L	4/25/2018			<1					<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/27/2018	<1	<1							
1,2-Dichloropropane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	4.21	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	3.28	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	4.06	0.28J	<1	<10	<1
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	3.13	<1	<1	<5	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	2.97	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	1.8	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	3.1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	2.4	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	2.6	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	1.71	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	2.45	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	2.3	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/10/2024				<1.00	2.3	<1.00			<1.00
1,2-Dichloropropane	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
1,2-Dichloropropane	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
1,3,5-Trinitrobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
1,3,5-Trinitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,3,5-Trinitrobenzene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
1,3,5-Trinitrobenzene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
1,3-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
1,3-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,3-Dichlorobenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,3-Dichloropropane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				

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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
1,3-Dichloropropane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,3-Dichloropropane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,3-Dinitrobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
1,3-Dinitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,3-Dinitrobenzene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
1,3-Dinitrobenzene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
1,4-Dichlorobenzene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/25/2009	<2	<1	<2	<2	<2	<2	<2	<20	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	1/2/2010						<1	<1	<10	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	3/3/2010						<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<2	<1	<1	<1	<1	<1	<1	<5	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	11/1/2010	<2	<1	<2	<2	<2	<2	<2	<5	<2
1,4-Dichlorobenzene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/1/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
1,4-Dichlorobenzene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/23/2018					<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	4/24/2018				<1			<1		
1,4-Dichlorobenzene	7440-66-6	ug/L	4/25/2018			<1					<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/27/2018	<1	<1							
1,4-Dichlorobenzene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
1,4-Dichlorobenzene	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
1,4-Dichlorobenzene	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
1,4-Naphthoquinone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
1,4-Naphthoquinone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,4-Naphthoquinone	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
1,4-Naphthoquinone	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
1,4-Phenylenediamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
1,4-Phenylenediamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,4-Phenylenediamine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
1,4-Phenylenediamine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
1-Naphthylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
1-Naphthylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
1-Naphthylamine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
1-Naphthylamine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
1-Naphthylamine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2,2-Dichloropropane	7440-66-6	ug/L	4/14/2009	<4	<4	<4	<4	<4				
2,2-Dichloropropane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4	<4	<20	<4
2,2-Dichloropropane	7440-66-6	ug/L	10/5/2015	<4	<4	<4	<4	<4	<4	<4	<4	<4
2,2-Dichloropropane	7440-66-6	ug/L	3/30/2020	<4	<4	<4	<4	<4	<4	<4	<20	<4
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2,4,5-T [2C]	7440-66-6	ug/L	4/14/2009	<0.2	<0.2	<0.2	<0.2	<0.29				
2,4,5-T [2C]	7440-66-6	ug/L	5/10/2010	<0.47	<0.5	<0.5	<0.5	<0.5	<0.51	<0.5	<0.51	<0.51
2,4,5-T [2C]	7440-66-6	ug/L	10/5/2015	<0.997	<1.01	<1.02	<1.01	<1.02	<1.03	<1.01	<1.02	<1.01
2,4,5-T [2C]	7440-66-6	ug/L	3/30/2020	<1.09	<1.13	<1.04	<1.06	<1.04	<1.03	<1.04	<1.06	<1.04
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/14/2009	<0.2	0.35; <0.48	<0.2	<0.2	<0.29				
2,4,5-TP [Silvex]	7440-66-6	ug/L	7/7/2009		<0.2							
2,4,5-TP [Silvex]	7440-66-6	ug/L	9/2/2009		0.36							
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/25/2009		0.41							
2,4,5-TP [Silvex]	7440-66-6	ug/L	1/2/2010		<0.2							
2,4,5-TP [Silvex]	7440-66-6	ug/L	5/10/2010	<0.47	<0.5	<0.5	<0.5	<0.5	<0.51	<0.5	<0.51	<0.51
2,4,5-TP [Silvex]	7440-66-6	ug/L	11/1/2010		<0.5							
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/13/2011		<1							
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/11/2012		<1							
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/11/2012		<1							
2,4,5-TP [Silvex]	7440-66-6	ug/L	3/30/2013		<1							
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/7/2013		<1.03							
2,4,5-TP [Silvex]	7440-66-6	ug/L	6/2/2014		<1.03							
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/15/2014		<1.02							
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/6/2015		<1.01							
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/5/2015	<0.997	<1.01	<1.02	<1.01	<1.02	<1.03	<1.01	2.32	<1.01
2,4,5-TP [Silvex]	7440-66-6	ug/L	4/4/2016		<1.1						2.32	
2,4,5-TP [Silvex]	7440-66-6	ug/L	10/17/2016		<1.12						<10.2	
2,4,5-TP [Silvex]	7440-66-6	ug/L	3/30/2020	<1.09	<1.13	<1.04	<1.06	<1.04	<1.03	<1.04	1.16	<1.04
2,4,5-Trichlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2,4,5-Trichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4,5-Trichlorophenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2,4,5-Trichlorophenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2,4,6-Trichlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2,4,6-Trichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4,6-Trichlorophenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2,4,6-Trichlorophenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2,4-D [2C]	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1.5				
2,4-D [2C]	7440-66-6	ug/L	5/10/2010	<0.93	<1	<1	<1	<1	<1	<1	<1	<1
2,4-D [2C]	7440-66-6	ug/L	10/5/2015	<0.997	<1.01	<1.02	<1.01	<1.02	<1.03	<1.01	<1.02	<1.01
2,4-D [2C]	7440-66-6	ug/L	3/30/2020	<1.09	<1.13	<1.04	<1.06	<1.04	<1.03	<1.04	<1.06	<1.04
2,4-Dichlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2,4-Dichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-Dichlorophenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2,4-Dichlorophenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2,4-Dimethylphenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2,4-Dimethylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-Dimethylphenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	0.536J	<10
2,4-Dimethylphenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2,4-Dinitrophenol	7440-66-6	ug/L	4/14/2009	<20	<20	<20	<100	<20				
2,4-Dinitrophenol	7440-66-6	ug/L	5/10/2010	<20	<20	<20	<20	<20	<20	<20	<20	<20
2,4-Dinitrophenol	7440-66-6	ug/L	10/5/2015	<20	<20.8	<20	<20.6	<21.1	<20.4	<20	<20	<20
2,4-Dinitrophenol	7440-66-6	ug/L	3/30/2020	<23	<23.5	<20.2	<20.6	<20.8	<20.4	<20.2	<21.3	<20.2
2,4-Dinitrotoluene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2,4-Dinitrotoluene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-Dinitrotoluene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2,4-Dinitrotoluene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2,6-Dichlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2,6-Dichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,6-Dichlorophenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10

Table 9A
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2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
2,6-Dichlorophenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2,6-Dinitrotoluene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2,6-Dinitrotoluene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,6-Dinitrotoluene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2,6-Dinitrotoluene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2-Acetylaminofluorene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2-Acetylaminofluorene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Acetylaminofluorene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2-Acetylaminofluorene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2-Butanone (MEK)	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10				
2-Butanone (MEK)	7440-66-6	ug/L	7/7/2009						<10	<10	889	<10
2-Butanone (MEK)	7440-66-6	ug/L	9/2/2009						<10	<10	2240	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10	1590	<10
2-Butanone (MEK)	7440-66-6	ug/L	1/2/2010						<10	<10	<100	<10
2-Butanone (MEK)	7440-66-6	ug/L	3/3/2010						<10	<10	106	<10
2-Butanone (MEK)	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	156	<10
2-Butanone (MEK)	7440-66-6	ug/L	11/1/2010	<10	10	<10	<10	<10	<10	<10	<50	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10	<10	<10	<50	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
2-Butanone (MEK)	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/7/2013		<10	<10	<10	<10	<10	<10		<10
2-Butanone (MEK)	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<100	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/23/2018					1.61J	<10			
2-Butanone (MEK)	7440-66-6	ug/L	4/24/2018				<10			<10		
2-Butanone (MEK)	7440-66-6	ug/L	4/25/2018			<10					1.2J	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/27/2018	<10	<10							
2-Butanone (MEK)	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<100	<10
2-Butanone (MEK)	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<50	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Butanone (MEK)	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Butanone (MEK)	7440-66-6	ug/L	5/2/2022	<10	<10	<10	<10	<10	<10	<10	1.4J	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/14/2022	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Butanone (MEK)	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10	<10	<10	148
2-Butanone (MEK)	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10	<10	<10	13.4
2-Butanone (MEK)	7440-66-6	ug/L	10/10/2024				<10.0	<10.0	<10.0			<10.0
2-Butanone (MEK)	7440-66-6	ug/L	10/9/2024			<10.0				<10.0	<10.0	
2-Butanone (MEK)	7440-66-6	ug/L	10/14/2024	<10.0	<10.0							
2-Chloronaphthalene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2-Chloronaphthalene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2-Chloronaphthalene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2-Chlorophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2-Chlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chlorophenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2-Chlorophenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2-Hexanone	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10				

Table 9A
Analytical Data Summary - Source Characterization Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
2-Hexanone	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10				
2-Hexanone	7440-66-6	ug/L	7/7/2009						<10	<10	<200	<10
2-Hexanone	7440-66-6	ug/L	9/2/2009						<10	<10	<100	<10
2-Hexanone	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10	<100	<10
2-Hexanone	7440-66-6	ug/L	1/2/2010						<10	<10	<100	<10
2-Hexanone	7440-66-6	ug/L	3/3/2010						<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	5/10/2010	<10	<20	<20	<20	<20	<20	<20	<100	<20
2-Hexanone	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
2-Hexanone	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10	<10	<10	<50	<10
2-Hexanone	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
2-Hexanone	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
2-Hexanone	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/7/2013		<10	<10	<10	<10	<10	<10		<10
2-Hexanone	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<100	<10
2-Hexanone	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/23/2018					<10	<10			
2-Hexanone	7440-66-6	ug/L	4/24/2018				<10			<10		
2-Hexanone	7440-66-6	ug/L	4/25/2018			<10					<10	<10
2-Hexanone	7440-66-6	ug/L	4/27/2018	<10	<10							
2-Hexanone	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<100	<10
2-Hexanone	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<50	<10
2-Hexanone	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Hexanone	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Hexanone	7440-66-6	ug/L	5/2/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Hexanone	7440-66-6	ug/L	10/14/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Hexanone	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/10/2024				<10.0	<10.0	<10.0			<10.0
2-Hexanone	7440-66-6	ug/L	10/9/2024			<10.0				<10.0	<10.0	
2-Hexanone	7440-66-6	ug/L	10/14/2024	<10.0	<10.0							
2-Methylnaphthalene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2-Methylnaphthalene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2-Methylnaphthalene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2-Methylphenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10	<10			
2-Methylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylphenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2-Methylphenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2-Naphthylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2-Naphthylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Naphthylamine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2-Naphthylamine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2-Nitroaniline	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Nitroaniline	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
2-Nitroaniline	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
2-Nitrophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
2-Nitrophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Nitrophenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10

Table 9A
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
2-Nitrophenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
3,3-Dichlorobenzidine	7440-66-6	ug/L	4/14/2009	<85	<85	<85	<425	<85				
3,3-Dichlorobenzidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
3,3-Dichlorobenzidine	7440-66-6	ug/L	10/5/2015	<50	<52.1	<50	<51.5	<52.6	<51	<50	<50	<50
3,3-Dichlorobenzidine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
3,3-Dimethylbenzidine	7440-66-6	ug/L	4/14/2009	<20	<20	<20	<100	<20				
3,3-Dimethylbenzidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
3,3-Dimethylbenzidine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
3,3-Dimethylbenzidine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
3-Methylcholanthrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
3-Methylcholanthrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
3-Methylcholanthrene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
3-Methylcholanthrene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
3-Nitroaniline	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
3-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
3-Nitroaniline	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
3-Nitroaniline	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
4,4'-DDD	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
4,4'-DDD	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
4,4'-DDD	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	0.00428J	<0.0323	<0.032	0.00245J	0.00427J
4,4'-DDD	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	0.00346J	<0.0333	<0.033	<0.0333	<0.0333
4,4'-DDE	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
4,4'-DDE	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
4,4'-DDE	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	<0.0333	<0.0323	<0.032	<0.032	<0.032
4,4'-DDE	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	<0.0333	<0.0333	<0.033	0.0052J	<0.0333
4,4'-DDT	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
4,4'-DDT	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
4,4'-DDT	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	0.0129J	0.0057J	<0.032	<0.032	<0.032
4,4'-DDT	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	0.0122J	<0.0333	<0.033	<0.0333	<0.0333
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
4-Aminobiphenyl	7440-66-6	ug/L	4/14/2009	<20	<20	<20	<100	<20				
4-Aminobiphenyl	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Aminobiphenyl	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
4-Aminobiphenyl	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
4-Bromophenyl phenyl ether	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
4-Bromophenyl phenyl ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Bromophenyl phenyl ether	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
4-Bromophenyl phenyl ether	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
4-Chloro-3-methylphenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
4-Chloro-3-methylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Chloro-3-methylphenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
4-Chloro-3-methylphenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10				
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	7/7/2009						<10	<10	<200	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	9/2/2009						<10	<10	<100	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10	120	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	1/2/2010						<10	<10	<100	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/3/2010						<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10	<10	<10	<50	<10

Table 9A
Analytical Data Summary - Source Characterization Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/7/2013		<10	<10	<10	<10	<10	<10		<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<100	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/23/2018					<10	<10			
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/24/2018				<10			<10		
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/25/2018			<10					<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/27/2018	<10	<10							
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<100	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<60	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/2/2022	1.5J	<5	<5	<5	<5	1.5J	<5	<5	<5
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/14/2022	<5	1.4J	<5	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/10/2024				<10.0	<10.0	<10.0			<10.0
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/9/2024			<10.0				<10.0	<10.0	
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/14/2024	<10.0	<10.0							
4-Nitroaniline	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
4-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
4-Nitroaniline	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
4-Nitrophenol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
4-Nitrophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitrophenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
4-Nitrophenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
5-Nitro-o-toluidine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
5-Nitro-o-toluidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
5-Nitro-o-toluidine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
5-Nitro-o-toluidine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Acenaphthene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Acenaphthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Acenaphthene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Acenaphthylene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Acenaphthylene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthylene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Acenaphthylene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Acetone	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10				
Acetone	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10				
Acetone	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10				
Acetone	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10				
Acetone	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10				
Acetone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10				
Acetone	7440-66-6	ug/L	7/7/2009						<10	<10	858	<10
Acetone	7440-66-6	ug/L	9/2/2009						<10	<10	2370	<10

Table 9A
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Acetone	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10	1570	<10
Acetone	7440-66-6	ug/L	1/2/2010						<10	<10	<100	<10
Acetone	7440-66-6	ug/L	3/3/2010						<10	<10	96.2	<10
Acetone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	196	<10
Acetone	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
Acetone	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10	<10	<10	<50	<10
Acetone	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
Acetone	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
Acetone	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<17.9	<10
Acetone	7440-66-6	ug/L	10/7/2013		<10	<10	<10	<10	<10	<10		<10
Acetone	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	3.53J	<10
Acetone	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<100	<10
Acetone	7440-66-6	ug/L	4/6/2015	<10	<10	2.29J; <10	<10	<10	<10	<10	4.67J	<10
Acetone	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	7.23J	2.81J
Acetone	7440-66-6	ug/L	4/4/2016	<10	<10	1.97J	<10	<10	<10	3.32J	5.15J	<10
Acetone	7440-66-6	ug/L	10/17/2016	<10	<10	2.9J	2.13J	<10	<10	<10	9.7J	<10
Acetone	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/11/2017	2.79J	3.99J	7.73J	3.64J	3.05J	4.4J	5.34J	4.99J	5.95J; 2.75J
Acetone	7440-66-6	ug/L	4/23/2018					<10	<10			
Acetone	7440-66-6	ug/L	4/24/2018				2.08J			<10		
Acetone	7440-66-6	ug/L	4/25/2018			2.97J					10.5	2.96J
Acetone	7440-66-6	ug/L	4/27/2018	2.24J	2.06J							
Acetone	7440-66-6	ug/L	10/16/2018	3.69J	4.44J	3.34J	<10	<10	<10	<10	7.03J	<10
Acetone	7440-66-6	ug/L	4/16/2019	<10	3.62J	<10	<10	<10	<10	<10	4.03J	<10
Acetone	7440-66-6	ug/L	10/1/2019	<10	3.94J	9.18J	<10	4.62J	<10	<10	38.9J	<10
Acetone	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<50	<10
Acetone	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	4/13/2021	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/20/2021	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	5/2/2022	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	10/14/2022	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	5/1/2023	<10	<10	9.12J	<10	<10	<10	<10	5.74J	8.8J
Acetone	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10	<10	3.54J	79.3
Acetone	7440-66-6	ug/L	4/29/2024	<10	<10	3.61J	<10	<10	<10	<10	<10	8.39J
Acetone	7440-66-6	ug/L	10/10/2024				<10.0	<10.0	<10.0			10.9
Acetone	7440-66-6	ug/L	10/9/2024			<10.0				<10.0	3.55J	
Acetone	7440-66-6	ug/L	10/14/2024	<10.0	<10.0							
Acetonitrile	7440-66-6	mg/L	4/14/2009	<10	<10	<10	<10	<10				
Acetonitrile	7440-66-6	mg/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile	7440-66-6	mg/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile	7440-66-6	mg/L	3/30/2020	<10	<10	<10	<10	<10	<10	0.48J	<10	<10
Acetophenone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Acetophenone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetophenone	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Acetophenone	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Acrolein	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10				
Acrolein	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
Acrolein	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrolein	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<50	<10
Acrylonitrile	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10				
Acrylonitrile	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10				
Acrylonitrile	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10				
Acrylonitrile	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10				
Acrylonitrile	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10				
Acrylonitrile	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10				
Acrylonitrile	7440-66-6	ug/L	7/7/2009						<10	<10	<200	<10
Acrylonitrile	7440-66-6	ug/L	9/2/2009						<10	<10	<100	<10
Acrylonitrile	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10	<100	<10
Acrylonitrile	7440-66-6	ug/L	1/2/2010						<10	<10	<100	<10
Acrylonitrile	7440-66-6	ug/L	3/3/2010						<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
Acrylonitrile	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
Acrylonitrile	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10	<10	<10	<50	<10

Table 9A
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Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Acrylonitrile	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
Acrylonitrile	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
Acrylonitrile	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	10/7/2013		<10	<10	<10	<10	<10	<10		<10
Acrylonitrile	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<100	<10
Acrylonitrile	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	4/23/2018					<5	<5			
Acrylonitrile	7440-66-6	ug/L	4/24/2018				<5			<5		
Acrylonitrile	7440-66-6	ug/L	4/25/2018			<5					<5	<5
Acrylonitrile	7440-66-6	ug/L	4/27/2018	<5	<5							
Acrylonitrile	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<50	<5
Acrylonitrile	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<25	<5
Acrylonitrile	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	5/2/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/14/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/10/2024				<5.00	<5.00	<5.00	<5.00		<5.00
Acrylonitrile	7440-66-6	ug/L	10/9/2024			<5.00				<5.00	<5.00	
Acrylonitrile	7440-66-6	ug/L	10/14/2024	<5.00	<5.00							
Aldrin	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
Aldrin	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Aldrin	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	<0.0333	<0.0323	<0.032	0.00649J	<0.032
Aldrin	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	<0.0333	<0.0333	<0.00464	0.00499J	<0.0333
Alkalinity, Phenol [CaCO3]	7440-66-6	mg/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5
Alkalinity, Phenol [CaCO3]	7440-66-6	mg/L	10/15/2014		<5	<5	<5	<5	<5	<5	<5	<5
Alkalinity, Phenol [CaCO3]	7440-66-6	mg/L	3/30/2020				<10					
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	6/2/2014	712	697	1200	759		599	624	1820	619
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	10/15/2014	717	692	1210	764	444	597	592	1800	642
Alkalinity, Total [CaCO3]	7440-66-6	mg/L	3/30/2020				601					
Allyl Chloride	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2				
Allyl Chloride	7440-66-6	ug/L	5/10/2010	<2	<2	<2	<2	<2	<2	<2	<10	<2
Allyl Chloride	7440-66-6	ug/L	10/5/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2
Allyl Chloride	7440-66-6	ug/L	3/30/2020	<2	<2	<2	<2	<2	<2	<2	<10	<2
Alpha-BHC	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Alpha-BHC	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Alpha-BHC	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	0.00173J	0.00652J	0.00382J	<0.032	0.00365J	0.0025J
Alpha-BHC	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	0.00297J	0.00432J	0.00569J	0.00283J	<0.033	<0.0333	<0.0333
Alpha-Chlordane	7440-66-6	ug/L	5/10/2010				<0.032		<0.032			
Ammonia as N	7440-66-6	mg/L	4/6/2015	0.539	0.635	0.386	0.154J	<0.2	<0.2	0.243	120	5.63
Ammonia as N	7440-66-6	mg/L	10/5/2015	0.464	0.481	0.617	0.17J	<0.2	<0.2	0.297	134	5.22
Ammonia as N	7440-66-6	mg/L	4/4/2016	0.689	1.29	0.397	0.109J	<0.2	<0.2	0.249	135	6.57
Ammonia as N	7440-66-6	mg/L	10/17/2016	0.69	1.21	0.727	0.164J	<0.2	<0.2	0.357	150	5.22
Anthracene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Anthracene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Anthracene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Antimony	7440-66-6	mg/L	2/27/2008	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	5/12/2008	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	7/13/2008	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	9/14/2008	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	11/17/2008	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006			

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Antimony	7440-66-6	mg/L	4/14/2009	<0.006	<0.006	<0.006	<0.006	<0.006				
Antimony	7440-66-6	mg/L	7/7/2009						<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	9/2/2009						<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	10/25/2009	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	1/2/2010						<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	3/3/2010						<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	5/10/2010	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002
Antimony	7440-66-6	mg/L	11/1/2010	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.012	<0.006
Antimony	7440-66-6	mg/L	4/4/2011	<0.006	<0.006	<0.006	<0.006					
Antimony	7440-66-6	mg/L	10/13/2011	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	4/11/2012	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	10/11/2012	<0.006	<0.006	<0.012	<0.006	<0.018	<0.012	<0.012	<0.012	<0.006
Antimony	7440-66-6	mg/L	3/30/2013	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	10/7/2013	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	6/2/2014	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	10/15/2014	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Antimony	7440-66-6	mg/L	4/6/2015	<0.001	<0.001	<0.001	<0.001	0.000182J	<0.001	<0.001	0.000578J	<0.001
Antimony	7440-66-6	mg/L	10/5/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000573J	<0.001
Antimony	7440-66-6	mg/L	4/4/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000578J	<0.001
Antimony	7440-66-6	mg/L	10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000549J	<0.001
Antimony	7440-66-6	mg/L	4/17/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000517J	<0.001
Antimony	7440-66-6	mg/L	10/11/2017	<0.001	<0.001	0.000425J	0.000227J	<0.001	0.000227J	0.000217J	0.000992J	<0.001
Antimony	7440-66-6	mg/L	4/23/2018					<0.001	<0.001			
Antimony	7440-66-6	mg/L	4/24/2018				<0.001			<0.001		
Antimony	7440-66-6	mg/L	4/25/2018			<0.001					0.000563J	<0.001
Antimony	7440-66-6	mg/L	4/27/2018	<0.001	<0.001							
Antimony	7440-66-6	mg/L	10/16/2018	<0.001	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Antimony	7440-66-6	mg/L	4/16/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000578J	<0.001
Antimony	7440-66-6	mg/L	10/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00061J	<0.001
Antimony	7440-66-6	mg/L	3/30/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000596J	<0.001
Antimony	7440-66-6	mg/L	10/7/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000678J	<0.001
Antimony	7440-66-6	mg/L	4/13/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0005J	<0.002
Antimony	7440-66-6	mg/L	10/20/2021	<0.002	<0.002	<0.002	<0.002	<0.002	0.0006J	<0.002	0.0006J	<0.002
Antimony	7440-66-6	mg/L	5/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0005J	<0.002
Antimony	7440-66-6	mg/L	10/14/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	5/1/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	10/16/2023	0.00115J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	4/29/2024	<0.002	<0.002	<0.008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.008
Antimony	7440-66-6	mg/L	10/10/2024				<0.00200	<0.00200	<0.00200			<0.00200
Antimony	7440-66-6	mg/L	10/9/2024			<0.00200				<0.00200	<0.00200	
Antimony	7440-66-6	mg/L	10/14/2024	<0.00200	<0.00200							
Arsenic	7440-66-6	mg/L	2/27/2008	0.164	0.001	0.032	0.177	<0.001				
Arsenic	7440-66-6	mg/L	5/12/2008	0.056	0.021	0.031	0.117	<0.001				
Arsenic	7440-66-6	mg/L	7/13/2008	0.048	0.012	0.03	0.141	<0.001				
Arsenic	7440-66-6	mg/L	9/14/2008	0.049	0.002	0.037	0.192	<0.001				
Arsenic	7440-66-6	mg/L	11/17/2008	0.0402	0.00126	0.042	0.172	<0.001				
Arsenic	7440-66-6	mg/L	4/14/2009	0.033	0.0028	0.037	0.14	<0.001				
Arsenic	7440-66-6	mg/L	7/7/2009	0.03	0.0041	0.032	0.122		0.002; <0.001	0.053; 0.054	0.043	0.0065
Arsenic	7440-66-6	mg/L	9/2/2009	0.04	0.0045	0.043	0.13		<0.001	0.058	0.092; 0.096	0.012
Arsenic	7440-66-6	mg/L	10/25/2009	0.032	0.005; 0.0052	0.039	0.13	<0.001	<0.001	0.073	0.09	0.0068
Arsenic	7440-66-6	mg/L	1/2/2010	0.039	0.015	0.042	0.12		0.0056	0.076	0.12	0.0073
Arsenic	7440-66-6	mg/L	3/3/2010						0.003	0.086	0.079; 0.081	0.007
Arsenic	7440-66-6	mg/L	5/10/2010	0.038	0.0092	0.034	0.092	<0.001	0.0061	0.057	0.071	0.0098
Arsenic	7440-66-6	mg/L	7/8/2010						0.0022	0.06	0.064	0.0096
Arsenic	7440-66-6	mg/L	9/13/2010						0.0061	0.073	0.094	0.0067
Arsenic	7440-66-6	mg/L	11/1/2010						<0.001	0.064	0.081	0.0037
Arsenic	7440-66-6	mg/L	1/10/2011						<0.001	0.0576	0.0684	
Arsenic	7440-66-6	mg/L	4/4/2011						0.0036	0.071	0.077	0.0025
Arsenic	7440-66-6	mg/L	10/13/2011	0.0414	0.0181	0.0594	0.115	<0.001	0.00187	0.0737	0.079	0.00834
Arsenic	7440-66-6	mg/L	4/11/2012	0.0204	0.011	0.0073	0.0843	<0.001	<0.001	0.0644	0.0705	0.00562
Arsenic	7440-66-6	mg/L	10/11/2012	0.0111	0.00689	0.0485	0.0969	<0.001	<0.001	0.0787	0.0958	0.011
Arsenic	7440-66-6	mg/L	3/30/2013	0.00962	0.00344	0.0359	0.0696	<0.001	<0.001	0.0677	0.0608	0.0075
Arsenic	7440-66-6	mg/L	10/7/2013	0.0102	0.00497	0.0472; 0.0456	0.0879	<0.001	<0.001	0.0739	0.0806	0.00937

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Arsenic	7440-66-6	mg/L	6/2/2014	0.0337; 0.0531	0.0147	0.0426	0.072	0.000377J	0.000267J	0.0619	0.191	0.0094
Arsenic	7440-66-6	mg/L	10/15/2014	0.0291	0.00479	0.0551	0.1	<0.001	<0.001	0.0757	<0.005	0.0156
Arsenic	7440-66-6	mg/L	4/6/2015	0.0249	0.00553	0.0458; 0.0488	0.0649	<0.002	<0.002	0.0632	0.0586	0.0326
Arsenic	7440-66-6	mg/L	10/5/2015	0.0273	0.0129	0.0621	0.0773	<0.002	<0.002	0.0589	0.0724	0.0389
Arsenic	7440-66-6	mg/L	4/4/2016	0.0424	0.0113	0.0516	0.0739	<0.002	<0.002	0.0756	0.0662	0.0522
Arsenic	7440-66-6	mg/L	10/17/2016	0.0375	0.014	0.0604	0.0807	<0.002	<0.002	0.0622; 0.0653	0.0517	0.047
Arsenic	7440-66-6	mg/L	4/17/2017	0.0592	0.0165	0.0483	0.0613	<0.002	<0.002	0.055	0.0468	0.0201
Arsenic	7440-66-6	mg/L	10/11/2017	0.0497	0.00794	0.0589	0.116	<0.002	0.000935J	0.0643	0.0684	0.0585; 0.0565
Arsenic	7440-66-6	mg/L	4/23/2018					<0.002	<0.002			
Arsenic	7440-66-6	mg/L	4/24/2018				0.0386			0.0671		
Arsenic	7440-66-6	mg/L	4/25/2018			0.0654					0.0668	0.0369
Arsenic	7440-66-6	mg/L	4/27/2018	0.0817	0.00613							
Arsenic	7440-66-6	mg/L	10/16/2018	0.0915	0.0103	0.0565	0.0639	0.000579J	0.00155	0.0625	0.0457	0.0131
Arsenic	7440-66-6	mg/L	4/16/2019	0.0812	0.0421	0.0521	0.0325	<0.002	<0.002	0.0612	0.0368	0.00546
Arsenic	7440-66-6	mg/L	10/1/2019	0.0494; 0.0558	0.0166	0.0641	0.0792	<0.002	<0.002	0.0649	0.0573	0.0106
Arsenic	7440-66-6	mg/L	3/30/2020	0.0435	0.0129	0.0455	0.0412	<0.002	<0.002	0.0632	0.0345	0.0018J
Arsenic	7440-66-6	mg/L	10/7/2020	0.0418	0.0196	0.0569	0.0983	<0.002	<0.002	0.0619	0.0467	0.074
Arsenic	7440-66-6	mg/L	4/13/2021	0.0695	0.0209	0.0424	0.0362; 0.0349	<0.004	<0.004	0.0561	0.0283	0.0027J
Arsenic	7440-66-6	mg/L	10/20/2021	0.0937	0.0124	0.0555	0.085	<0.004	0.0024J	0.0624	0.0452	0.0259
Arsenic	7440-66-6	mg/L	5/2/2022	0.0577	0.023	0.0435	0.0379	0.0013J	0.001J	0.0515	0.0285	0.0015J
Arsenic	7440-66-6	mg/L	10/14/2022	0.019	0.0229	0.0598	0.0742	0.0011J	0.0012J	0.0535	0.0385	0.0173
Arsenic	7440-66-6	mg/L	5/1/2023	0.0961	0.0226	0.0417	0.0379	<0.002	<0.002	0.0514	0.0316	0.00188J
Arsenic	7440-66-6	mg/L	10/16/2023	0.0185	0.0148	0.0496	0.0882	<0.002	<0.002	0.0581	0.0417	0.0038
Arsenic	7440-66-6	mg/L	4/29/2024	0.0349	0.00299	0.0236	0.0464	<0.002	<0.002	0.0579	0.036	0.00409J
Arsenic	7440-66-6	mg/L	10/10/2024				0.0896	<0.00200	<0.00200			0.00233
Arsenic	7440-66-6	mg/L	10/9/2024			0.0338				0.0617	0.0297	
Arsenic	7440-66-6	mg/L	10/14/2024	0.0115	0.00444							
Barium	7440-66-6	mg/L	2/27/2008	1.05	0.316	0.956	0.666	0.456				
Barium	7440-66-6	mg/L	5/12/2008	0.573	0.368	0.696	0.552	0.405				
Barium	7440-66-6	mg/L	7/13/2008	0.642	0.361	0.722	0.561	0.411				
Barium	7440-66-6	mg/L	9/14/2008	0.407	0.288	0.698	0.676	0.467				
Barium	7440-66-6	mg/L	11/17/2008	0.464	0.289	0.758	0.741	0.469				
Barium	7440-66-6	mg/L	4/14/2009	0.451	0.305	0.685	0.594	0.438				
Barium	7440-66-6	mg/L	7/7/2009	0.445	0.334	0.701	0.535	0.413	0.305; 0.319	0.46; 0.526	1.06	0.328
Barium	7440-66-6	mg/L	9/2/2009	0.469	0.318	0.662	0.56	0.44	0.258	0.489	1.74	0.702
Barium	7440-66-6	mg/L	10/25/2009	0.464	0.332	0.707	0.552	0.43	0.283	0.501	2.18	0.659
Barium	7440-66-6	mg/L	1/2/2010	0.554	0.483	0.725	0.569	0.516	0.381	0.497	1.79	0.6
Barium	7440-66-6	mg/L	3/3/2010						0.38	0.645	1.47	0.541
Barium	7440-66-6	mg/L	5/10/2010	0.565	0.38	0.666	0.506	0.418	0.411	0.461	1.22	0.535
Barium	7440-66-6	mg/L	7/8/2010						0.369	0.458	0.988	0.591
Barium	7440-66-6	mg/L	9/13/2010						0.386	0.459	1	0.649
Barium	7440-66-6	mg/L	11/1/2010	0.559	0.36	0.736	0.538	0.474	0.416	0.447	0.868	0.581
Barium	7440-66-6	mg/L	1/10/2011						0.358	0.452	1.01	
Barium	7440-66-6	mg/L	4/4/2011						0.401	0.427	0.87	0.371
Barium	7440-66-6	mg/L	10/13/2011	0.431	0.365	0.766	0.573	0.531	0.423	0.499	0.839	2.33
Barium	7440-66-6	mg/L	4/11/2012	0.4	0.345	0.722	0.459	0.428	0.322	0.421	0.838	0.707
Barium	7440-66-6	mg/L	10/11/2012	0.413	0.269	0.765	0.536	0.574	0.36	0.462	0.723	0.99
Barium	7440-66-6	mg/L	3/30/2013	0.382	0.316	0.678	0.507	0.543	0.311	0.477	1.03	0.687
Barium	7440-66-6	mg/L	10/7/2013	0.411	0.324	0.835; 0.878	0.527	0.554; 0.552	0.383	0.408	2.4	0.798
Barium	7440-66-6	mg/L	6/2/2014	0.443; 0.402	0.309	0.769	0.478	0.429	0.361	0.322	1.11	0.793
Barium	7440-66-6	mg/L	10/15/2014	0.407	0.343	0.829	0.517	0.484	0.397	0.409	0.961	1
Barium	7440-66-6	mg/L	4/6/2015	0.401	0.367	0.818; 0.876	0.48	0.449	0.319	0.396	0.984	1.05
Barium	7440-66-6	mg/L	10/5/2015	0.467	0.428	0.946	0.547	0.658	0.367	0.404	0.89	1.16
Barium	7440-66-6	mg/L	4/4/2016	0.488	0.378	0.914	0.531	0.484	0.284	0.514	0.824	0.779
Barium	7440-66-6	mg/L	10/17/2016	0.382	0.341	0.933	0.456	0.556	0.325	0.392; 0.406	0.628	0.875
Barium	7440-66-6	mg/L	4/17/2017	0.463	0.45	0.974	0.459	0.551	0.278	0.471	0.622	0.29
Barium	7440-66-6	mg/L	10/11/2017	0.41	0.366	0.697	0.621	0.6	0.219	0.415	0.585	0.772; 0.812
Barium	7440-66-6	mg/L	4/23/2018					0.507	0.247			
Barium	7440-66-6	mg/L	4/24/2018				0.353			0.481		
Barium	7440-66-6	mg/L	4/25/2018			0.857					0.84	0.335
Barium	7440-66-6	mg/L	4/27/2018	0.604	0.283							
Barium	7440-66-6	mg/L	10/16/2018	0.531	0.28	0.827	0.525	0.569	0.326	0.435	0.574	0.281
Barium	7440-66-6	mg/L	4/16/2019	0.796	0.687	0.78	0.412	0.625	0.21	0.594	0.665	0.219

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Barium	7440-66-6	mg/L	10/1/2019	0.353; 0.412	0.329	0.902	0.533	0.473	0.31	0.463	0.87	0.379
Barium	7440-66-6	mg/L	3/30/2020	0.433	0.279	0.806	0.396	0.457	0.192	0.56	0.713	0.102
Barium	7440-66-6	mg/L	10/7/2020	0.424	0.329	0.695	0.502	0.594	0.237	0.472	0.718	1.18
Barium	7440-66-6	mg/L	4/13/2021	0.445	0.32	0.652	0.399; 0.387	0.423	0.184	0.453	0.59	0.0641
Barium	7440-66-6	mg/L	10/20/2021	0.456	0.456	0.61	0.453	0.554	0.509	0.439	0.633	0.768
Barium	7440-66-6	mg/L	5/2/2022	0.488	0.347	0.653	0.339	0.465	0.179	0.43	0.603	0.118
Barium	7440-66-6	mg/L	10/14/2022	0.251	0.374	0.668	0.508	0.564	0.183	0.415	0.696	0.401
Barium	7440-66-6	mg/L	5/1/2023	0.705	0.391	0.862	0.346	0.487	0.15	0.413	0.551	0.061
Barium	7440-66-6	mg/L	10/16/2023	0.37	0.306	0.593	0.471	0.563	0.182	0.379	0.647	0.155
Barium	7440-66-6	mg/L	4/29/2024	0.126	0.228	0.472	0.314	0.376	0.144	0.383	0.803	0.0855
Barium	7440-66-6	mg/L	10/10/2024				0.461	0.556	0.122			0.668
Barium	7440-66-6	mg/L	10/9/2024			0.595				0.423	0.659	
Barium	7440-66-6	mg/L	10/14/2024	0.274	0.323							
Benzene	7440-66-6	ug/L	2/27/2008	<0.5	<0.5	0.59	1.42	0.64				
Benzene	7440-66-6	ug/L	5/12/2008	<0.5	<0.5	<0.5	1.11	<0.5				
Benzene	7440-66-6	ug/L	7/13/2008	<0.5	<0.5	<0.5	1.59	<0.5				
Benzene	7440-66-6	ug/L	9/14/2008	<0.5	<0.5	0.6	1.46	0.66				
Benzene	7440-66-6	ug/L	11/17/2008	<0.5	<0.5	0.72	1.48	0.65				
Benzene	7440-66-6	ug/L	4/14/2009	<0.5	<0.5	<0.5	1.11	0.54				
Benzene	7440-66-6	ug/L	7/7/2009				1.08	0.56	<0.5; 0.53	3.48; 3.54	<10	<0.5
Benzene	7440-66-6	ug/L	9/2/2009				0.97	0.53	<0.5	2.67	9.2	<0.5
Benzene	7440-66-6	ug/L	10/25/2009	<0.5	<0.5	0.67	1.14	0.5	<0.5	3.12	8.4	<0.5
Benzene	7440-66-6	ug/L	1/2/2010				1.14	0.56	<0.5	3.4	7.7	<0.5
Benzene	7440-66-6	ug/L	3/3/2010						<0.5	4.65	8.49	<0.5
Benzene	7440-66-6	ug/L	5/10/2010	<0.5	<0.5	0.56	0.8	<0.5	<0.5	3.08	8.05	<0.5
Benzene	7440-66-6	ug/L	11/1/2010	<0.5	<0.5	<0.5	0.73	0.61	<0.5	3.1	11.4	<0.5
Benzene	7440-66-6	ug/L	4/4/2011				0.67	0.61		4.15	9.85	
Benzene	7440-66-6	ug/L	10/13/2011	<0.5	<0.5	0.72	0.68	0.7	<0.5	3.26	9.75	<0.5
Benzene	7440-66-6	ug/L	4/11/2012	<0.5	<0.5	0.55	0.67	<0.5	<0.5	1.96	10.9	<0.5
Benzene	7440-66-6	ug/L	10/11/2012	<0.5	<0.5	<0.5	0.71	0.8	<0.5	2.4	12.6	<0.5
Benzene	7440-66-6	ug/L	3/30/2013	<0.5	<0.5	<0.5	0.54	0.504	<0.5	1.4	7.84	<0.5
Benzene	7440-66-6	ug/L	10/7/2013	<0.5	<0.5	<0.5	<0.5	0.748; 0.665	<0.5	0.782		<0.5
Benzene	7440-66-6	ug/L	6/2/2014	<0.5	<0.5	0.508	0.354J	0.598	<0.5	0.631	7.16	<0.5
Benzene	7440-66-6	ug/L	10/15/2014	<0.5	<0.5	0.529	0.464J	0.505	<0.5	<0.5	9.3	<0.5
Benzene	7440-66-6	ug/L	4/6/2015	<0.5	<0.5	0.576; 0.442J	0.226J	0.463J	<0.5	0.428J	8.6	<0.5
Benzene	7440-66-6	ug/L	10/5/2015	<0.5	<0.5	0.675	0.198J	0.745	<0.5	<0.5	10.6	<0.5
Benzene	7440-66-6	ug/L	4/4/2016	<0.5	<0.5	0.526	0.226J	0.38J	<0.5	0.11J	10.2	0.141J
Benzene	7440-66-6	ug/L	10/17/2016	<0.5	<0.5	0.659	<0.5	0.747	0.138J	<0.5	11.8	<0.5
Benzene	7440-66-6	ug/L	4/17/2017	<0.5	<0.5	0.505	<0.5	0.475J	<0.5	<0.5	9.59	<0.5
Benzene	7440-66-6	ug/L	10/11/2017	<0.5	<0.5	0.344J	<0.5	0.63	<0.5	<0.5	13.2	0.121J; <0.5
Benzene	7440-66-6	ug/L	4/23/2018					0.525	<0.5			
Benzene	7440-66-6	ug/L	4/24/2018				<0.5			0.157J		
Benzene	7440-66-6	ug/L	4/25/2018			0.174J					9.89	<0.5
Benzene	7440-66-6	ug/L	4/27/2018	<0.5	<0.5							
Benzene	7440-66-6	ug/L	10/16/2018	<0.5	<0.5	<0.5	<0.5	0.553	<0.5	<0.5	10.1	<0.5
Benzene	7440-66-6	ug/L	4/16/2019	<0.5	<0.5	<0.5	<0.5	0.446J	<0.5	0.22J	8.97	<0.5
Benzene	7440-66-6	ug/L	10/1/2019	<0.5	<0.5	<0.5	<0.5	0.462J	<0.5	<0.5	8.93	<0.5
Benzene	7440-66-6	ug/L	3/30/2020	<0.5	<0.5	<0.5	<0.5	0.349J	<0.5	<0.5	9.17	<0.5
Benzene	7440-66-6	ug/L	10/7/2020	<0.5	<0.5	<0.5	<0.5	0.348J	<0.5	<0.5	8.88	<0.5
Benzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	0.3J	<1	<1	11.4	<1
Benzene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	0.3J	<1	<1	10.7	<1
Benzene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	0.3J	<1	<1	11.2	<1
Benzene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	0.4J	<1	<1	9.7	<1
Benzene	7440-66-6	ug/L	5/1/2023	<0.5	<0.5	<0.5	<0.5	0.349J	<0.5	<0.5	8.47	<0.5
Benzene	7440-66-6	ug/L	10/16/2023	<0.5	<0.5	<0.5	<0.5	0.359J	<0.5	<0.5	9.31	<0.5
Benzene	7440-66-6	ug/L	4/29/2024	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	8.43	<0.5
Benzene	7440-66-6	ug/L	10/10/2024				<0.500	0.437J	<0.500			<0.500
Benzene	7440-66-6	ug/L	10/9/2024			<0.500				<0.500	9.27	
Benzene	7440-66-6	ug/L	10/14/2024	<0.500	<0.500							
Benzo [k] fluoranthene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Benzo [k] fluoranthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzo [k] fluoranthene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Benzo [k] fluoranthene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Benzo[a]anthracene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Benzo[a]anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzo[a]anthracene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Benzo[a]anthracene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Benzo[a]pyrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Benzo[a]pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzo[a]pyrene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Benzo[a]pyrene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Benzo[b]fluoranthene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Benzo[b]fluoranthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzo[b]fluoranthene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Benzo[b]fluoranthene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Benzo[g,h,i]perylene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzo[g,h,i]perylene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Benzo[g,h,i]perylene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Benzyl alcohol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Benzyl alcohol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzyl alcohol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Benzyl alcohol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Beryllium	7440-66-6	mg/L	2/27/2008	0.0028	<0.001	<0.001	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	5/12/2008	0.00104	<0.001	<0.001	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	7/13/2008	0.00111	<0.001	<0.001	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	9/14/2008	<0.001	<0.001	<0.001	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	11/17/2008	<0.001	<0.001	<0.001	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	4/14/2009	<0.001	<0.001	<0.001	<0.001	<0.001				
Beryllium	7440-66-6	mg/L	7/7/2009						<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	9/2/2009						<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/25/2009	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	1/2/2010						<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	3/3/2010						<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	5/10/2010	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0008	<0.0004
Beryllium	7440-66-6	mg/L	11/1/2010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/13/2011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/11/2012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/11/2012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	3/30/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/7/2013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00106	<0.001
Beryllium	7440-66-6	mg/L	6/2/2014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/15/2014	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/6/2015	<0.001	0.000044J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/5/2015	<0.001	<0.001	<0.001	0.000048J	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/4/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/17/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/11/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/23/2018					<0.001	<0.001			
Beryllium	7440-66-6	mg/L	4/24/2018				<0.001			<0.001		
Beryllium	7440-66-6	mg/L	4/25/2018			<0.001					<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/27/2018	<0.001	<0.001							
Beryllium	7440-66-6	mg/L	10/16/2018	<0.001	<0.001	<0.001	0.000573J	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/16/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	3/30/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/7/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/13/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Beryllium	7440-66-6	mg/L	10/20/2021	<0.004	<0.004	<0.004	<0.004	<0.004	0.0001J	<0.004	<0.004	0.0002J
Beryllium	7440-66-6	mg/L	5/2/2022	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Beryllium	7440-66-6	mg/L	10/14/2022	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Beryllium	7440-66-6	mg/L	5/1/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	4/29/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/10/2024				<0.00100	<0.00100	<0.00100			<0.00100

Table 9A
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Beryllium	7440-66-6	mg/L	10/9/2024			<0.00100				<0.00100	<0.00100	
Beryllium	7440-66-6	mg/L	10/14/2024	<0.00100	<0.00100							
Beta-BHC	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
Beta-BHC	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	0.143	<0.032
Beta-BHC	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	0.00974J	0.00601J	<0.032	0.0191J	<0.032
Beta-BHC	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	0.0171J	<0.0333	<0.033	0.0195J	<0.0333
Bicarbonate	7440-66-6	mg/L	6/2/2014	712	697	1200	759		599	624	1820	619
Bicarbonate	7440-66-6	mg/L	10/15/2014	717	692	1210	764	444	597	592	1800	642
Bicarbonate	7440-66-6	mg/L	3/30/2020				601					
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Bis[2-chloroethoxy]ether	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Bis[2-chloroethoxy]ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis[2-chloroethoxy]ether	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Bis[2-chloroethoxy]ether	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	10/5/2015	5.05J	9.77J	0.697J	2.6J	1.99J	0.75J	3.61J	8.16J	9.33J
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Bromochloromethane	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5				
Bromochloromethane	7440-66-6	ug/L	7/7/2009						<5	<5	<100	<5
Bromochloromethane	7440-66-6	ug/L	9/2/2009						<5	<5	<50	<5
Bromochloromethane	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<5	<5	<5	<50	<5
Bromochloromethane	7440-66-6	ug/L	1/2/2010						<5	<5	<50	<5
Bromochloromethane	7440-66-6	ug/L	3/3/2010						<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5	<5	<25	<5
Bromochloromethane	7440-66-6	ug/L	11/1/2010	<5	<5	<5	<5	<5	<5	<5	<25	<5
Bromochloromethane	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5	<5	<5	<25	<5
Bromochloromethane	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
Bromochloromethane	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
Bromochloromethane	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/7/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<50	<5
Bromochloromethane	7440-66-6	ug/L	4/6/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/17/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/23/2018					<5				
Bromochloromethane	7440-66-6	ug/L	4/24/2018				<5			<5		
Bromochloromethane	7440-66-6	ug/L	4/25/2018			<5					<5	<5
Bromochloromethane	7440-66-6	ug/L	4/27/2018	<5	<5							
Bromochloromethane	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<50	<5
Bromochloromethane	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<25	<5
Bromochloromethane	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1

Table 9A
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Bromochloromethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/10/2024			<5.00	<5.00	<5.00	<5.00			<5.00
Bromochloromethane	7440-66-6	ug/L	10/9/2024			<5.00				<5.00	<5.00	
Bromochloromethane	7440-66-6	ug/L	10/14/2024	<5.00	<5.00							
Bromodichloromethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
Bromodichloromethane	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
Bromodichloromethane	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
Bromodichloromethane	7440-66-6	ug/L	10/25/2009	<2	<1	<2	<2	<2	<2	<2	<20	<1
Bromodichloromethane	7440-66-6	ug/L	1/2/2010						<10	<10	<100	<5
Bromodichloromethane	7440-66-6	ug/L	3/3/2010						<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	5/10/2010	<1	<4	<4	<4	<4	<4	<4	<20	<4
Bromodichloromethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
Bromodichloromethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
Bromodichloromethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Bromodichloromethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Bromodichloromethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1.2	<1
Bromodichloromethane	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
Bromodichloromethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
Bromodichloromethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	4/23/2018					<1	<1			
Bromodichloromethane	7440-66-6	ug/L	4/24/2018				<1			<1		
Bromodichloromethane	7440-66-6	ug/L	4/25/2018			<1					<1	<1
Bromodichloromethane	7440-66-6	ug/L	4/27/2018	<1	<1							
Bromodichloromethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
Bromodichloromethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
Bromodichloromethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
Bromodichloromethane	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
Bromodichloromethane	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
Bromoform	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5				
Bromoform	7440-66-6	ug/L	7/7/2009						<5	<5	<100	<5
Bromoform	7440-66-6	ug/L	9/2/2009						<5	<5	<50	<5
Bromoform	7440-66-6	ug/L	10/25/2009	<10	<20	<10	<10	<10	<10	<10	<100	<20
Bromoform	7440-66-6	ug/L	1/2/2010						<50	<50	<500	<10
Bromoform	7440-66-6	ug/L	3/3/2010						<5	<5	<5	<5

Table 9A
Analytical Data Summary - Source Characterization Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Bromoform	7440-66-6	ug/L	5/10/2010	<20	<20	<20	<20	<20	<20	<20	<100	<20
Bromoform	7440-66-6	ug/L	11/1/2010	<10	<5	<10	<10	<10	<10	<10	<25	<10
Bromoform	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5	<5	<5	<25	<5
Bromoform	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
Bromoform	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
Bromoform	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/7/2013		<5	<5	<5	<5	<5	<5		<5
Bromoform	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<50	<5
Bromoform	7440-66-6	ug/L	4/6/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/17/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/23/2018				<5	<5	<5			
Bromoform	7440-66-6	ug/L	4/24/2018							<5		
Bromoform	7440-66-6	ug/L	4/25/2018			<5					<5	<5
Bromoform	7440-66-6	ug/L	4/27/2018	<5	<5							
Bromoform	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<50	<5
Bromoform	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<25	<5
Bromoform	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/10/2024				<5.00	<5.00	<5.00			<5.00
Bromoform	7440-66-6	ug/L	10/9/2024			<5.00				<5.00	<5.00	
Bromoform	7440-66-6	ug/L	10/14/2024	<5.00	<5.00							
Bromomethane	7440-66-6	ug/L	2/27/2008	<4	<4	<4	<4	<4				
Bromomethane	7440-66-6	ug/L	5/12/2008	<4	<4	<4	<4	<4				
Bromomethane	7440-66-6	ug/L	7/13/2008	<4	<4	<4	<4	<4				
Bromomethane	7440-66-6	ug/L	9/14/2008	<4	<4	<4	<4	<4				
Bromomethane	7440-66-6	ug/L	11/17/2008	<4	<4	<4	<4	<4				
Bromomethane	7440-66-6	ug/L	4/14/2009	<4	<4	<4	<4	<4				
Bromomethane	7440-66-6	ug/L	7/7/2009						<4	<4	<80	<4
Bromomethane	7440-66-6	ug/L	9/2/2009						<4	<4	<40	<4
Bromomethane	7440-66-6	ug/L	10/25/2009	<4	<4	<4	<4	<4	<4	<4	<40	<4
Bromomethane	7440-66-6	ug/L	1/2/2010						<4	<4	<40	<4
Bromomethane	7440-66-6	ug/L	3/3/2010						<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	5/10/2010	<5	<4	<4	<4	<4	<4	<4	<20	<4
Bromomethane	7440-66-6	ug/L	11/1/2010	<4	<4	<4	<4	<4	<4	<4	<20	<4
Bromomethane	7440-66-6	ug/L	10/13/2011	<4	<4	<4	<4	<4	<4	<4	<20	<4
Bromomethane	7440-66-6	ug/L	4/11/2012	<4	<4	<4	<4	<4	<4	<4	<40	<4
Bromomethane	7440-66-6	ug/L	10/11/2012	<4	<4	<4	<4	<4	<4	<4	<40	<4
Bromomethane	7440-66-6	ug/L	3/30/2013	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/7/2013		<4	<4	<4	<4	<4	<4		<4
Bromomethane	7440-66-6	ug/L	6/2/2014	<4	0.23J	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/15/2014	<4	<4	<4	<4	<4	<4	<4	<40	<4
Bromomethane	7440-66-6	ug/L	4/6/2015	0.288J	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/5/2015	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	4/4/2016	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/17/2016	<4	0.389J	<4	<4	<4	<4	<4		0.611J
Bromomethane	7440-66-6	ug/L	4/17/2017	0.515J	0.414J	0.304J	0.442J	0.373J	0.488J	0.554J	0.268J	0.432J
Bromomethane	7440-66-6	ug/L	10/11/2017	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	4/23/2018									
Bromomethane	7440-66-6	ug/L	4/24/2018				<4	<4		<4		
Bromomethane	7440-66-6	ug/L	4/25/2018			<4					<4	<4

Table 9A
Analytical Data Summary - Source Characterization Wells
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Bromomethane	7440-66-6	ug/L	4/27/2018	<4	<4							
Bromomethane	7440-66-6	ug/L	10/16/2018	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	4/16/2019	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/1/2019	<4	<4	<4	<4	<4	<4	<4	<40	<4
Bromomethane	7440-66-6	ug/L	3/30/2020	<4	<4	<4	<4	<4	<4	<4	<20	<4
Bromomethane	7440-66-6	ug/L	10/7/2020	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	0.6J	<1	<1	<1	<1	0.7J
Bromomethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	7440-66-6	ug/L	5/1/2023	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/16/2023	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	4/29/2024	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/10/2024				<4.00	<4.00	<4.00			<4.00
Bromomethane	7440-66-6	ug/L	10/9/2024			<4.00				<4.00	<4.00	
Bromomethane	7440-66-6	ug/L	10/14/2024	<4.00	<4.00							
Butyl benzyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Butyl benzyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Butyl benzyl phthalate	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Butyl benzyl phthalate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Cadmium	7440-66-6	mg/L	2/27/2008	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	5/12/2008	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	7/13/2008	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	9/14/2008	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	11/17/2008	<0.0005	<0.0005	<0.0005	<0.0005	0.000508				
Cadmium	7440-66-6	mg/L	4/14/2009	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
Cadmium	7440-66-6	mg/L	7/7/2009						<0.0025	<0.0025	<0.0025	<0.0025
Cadmium	7440-66-6	mg/L	9/2/2009						<0.0025	<0.0025	<0.0025	<0.0025
Cadmium	7440-66-6	mg/L	10/25/2009	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Cadmium	7440-66-6	mg/L	1/2/2010						<0.0025	<0.0025	<0.0025	<0.0025
Cadmium	7440-66-6	mg/L	3/3/2010						<0.0025	<0.0025	<0.0025	<0.0025
Cadmium	7440-66-6	mg/L	5/10/2010	<0.0004	<0.0004	<0.0008	<0.0004	<0.0004	<0.0004	<0.0004	<0.0008	<0.0004
Cadmium	7440-66-6	mg/L	11/1/2010						<0.0025	<0.0025	<0.0025	<0.0025
Cadmium	7440-66-6	mg/L	4/4/2011						<0.0025	<0.0025	<0.0025	<0.0025
Cadmium	7440-66-6	mg/L	10/13/2011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00388
Cadmium	7440-66-6	mg/L	4/11/2012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	10/11/2012	<0.0005	<0.0005	<0.0005	<0.0005	0.000524	<0.0005	<0.0005	<0.0005	0.000837
Cadmium	7440-66-6	mg/L	3/30/2013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000874
Cadmium	7440-66-6	mg/L	10/7/2013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	6/2/2014	<0.0005	<0.0005	<0.0005	0.00015J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	10/15/2014	0.000682	<0.0005	<0.0005	<0.0005	0.000088J	<0.0005	0.0013	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	4/6/2015	<0.0005	<0.0005	<0.0005	<0.0005	0.000359J	<0.0005	<0.0005	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	10/5/2015	<0.0005	<0.0005	<0.0005	<0.0005	0.00109	<0.0005	<0.0005	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	4/4/2016	<0.0005	<0.0005	<0.0005	<0.0005	0.000209J	<0.0005	<0.0005	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	10/17/2016	<0.0005	<0.0005	<0.0005	<0.0005	0.000729	<0.0005	<0.0005	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	4/17/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	10/11/2017	<0.0005	0.000089J	0.000047J	0.000133J	0.000045J	<0.0005	<0.0005	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	4/23/2018					<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	4/24/2018				<0.0005			<0.0005		
Cadmium	7440-66-6	mg/L	4/25/2018			<0.0005					<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	4/27/2018	<0.0005	0.000093J							
Cadmium	7440-66-6	mg/L	10/16/2018	<0.0005	0.000062J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	4/16/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Cadmium	7440-66-6	mg/L	10/1/2019	<0.0001	<0.0001	<0.0001	0.000056J	<0.0001	<0.0001	<0.0001	0.000073J	<0.0001
Cadmium	7440-66-6	mg/L	3/30/2020	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Cadmium	7440-66-6	mg/L	10/7/2020	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Cadmium	7440-66-6	mg/L	4/13/2021	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Cadmium	7440-66-6	mg/L	10/20/2021	<0.0008	<0.0008	<0.0008	<0.0008	0.0002J	<0.0008	<0.0008	0.0002J	
Cadmium	7440-66-6	mg/L	5/2/2022	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Cadmium	7440-66-6	mg/L	10/14/2022	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Cadmium	7440-66-6	mg/L	5/1/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Cadmium	7440-66-6	mg/L	10/16/2023	0.000183J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Cadmium	7440-66-6	mg/L	4/29/2024	0.000145J	0.000149J	<0.0008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0008

Table 9A
Analytical Data Summary - Source Characterization Wells
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Cadmium	7440-66-6	mg/L	10/10/2024				<0.000200	<0.000200	<0.000200			<0.000200
Cadmium	7440-66-6	mg/L	10/9/2024			<0.000200				<0.000200	<0.000200	
Cadmium	7440-66-6	mg/L	10/14/2024	<0.000200	0.000167J							
Calcium	7440-66-6	mg/L	6/2/2014	168; 175	168	289	172		190	124	294	152
Calcium	7440-66-6	mg/L	10/15/2014	174	161	293	177	162	197	131	243	154
Calcium	7440-66-6	mg/L	3/30/2020				178					
Carbon Disulfide	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
Carbon Disulfide	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
Carbon Disulfide	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
Carbon Disulfide	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<5	<5	<5	<50	<1
Carbon Disulfide	7440-66-6	ug/L	1/2/2010						<5	<5	<50	<1
Carbon Disulfide	7440-66-6	ug/L	3/3/2010						<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	5/10/2010	<1	<4	<4	<4	<4	<4	<4	<20	<4
Carbon Disulfide	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
Carbon Disulfide	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
Carbon Disulfide	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Carbon Disulfide	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Carbon Disulfide	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1.5	<1
Carbon Disulfide	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
Carbon Disulfide	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
Carbon Disulfide	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	0.332J	<1	0.399J
Carbon Disulfide	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/23/2018					<1	<1			
Carbon Disulfide	7440-66-6	ug/L	4/24/2018				<1			<1		
Carbon Disulfide	7440-66-6	ug/L	4/25/2018			<1					<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/27/2018	<1	<1							
Carbon Disulfide	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
Carbon Disulfide	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
Carbon Disulfide	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	4/29/2024	<1	<1	0.541J	<1	<1	<1	<1	<1	13.3
Carbon disulfide	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
Carbon disulfide	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
Carbon disulfide	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
Carbon Tetrachloride	7440-66-6	ug/L	2/27/2008	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	5/12/2008	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	7/13/2008	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	9/14/2008	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	11/17/2008	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2				
Carbon Tetrachloride	7440-66-6	ug/L	7/7/2009						<2	<2	<40	<2
Carbon Tetrachloride	7440-66-6	ug/L	9/2/2009						<2	<2	<20	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/25/2009	<2	<5	<2	<2	<2	<2	<2	<20	<2
Carbon Tetrachloride	7440-66-6	ug/L	1/2/2010						<5	<5	<50	<2
Carbon Tetrachloride	7440-66-6	ug/L	3/3/2010						<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4	<4	<20	<4

Table 9A
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Carbon Tetrachloride	7440-66-6	ug/L	11/1/2010	<5	<2	<5	<5	<5	<5	<5	<10	<5
Carbon Tetrachloride	7440-66-6	ug/L	10/13/2011	<2	<2	<2	<2	<2	<2	<2	<10	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/11/2012	<2	<2	<2	<2	<2	<2	<2	<20	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/11/2012	<2	<2	<2	<2	<2	<2	<2	<20	<2
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2013	<2	<2	<2	<2	<2	<2	<2	<2.4	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/7/2013		<2	<2	<2	<2	<2	<2		<2
Carbon Tetrachloride	7440-66-6	ug/L	6/2/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/15/2014	<2	<2	<2	<2	<2	<2	<2	<20	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/6/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/5/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/4/2016	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/17/2016	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/17/2017	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/11/2017	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/23/2018					<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	4/24/2018				<2			<2		
Carbon Tetrachloride	7440-66-6	ug/L	4/25/2018			<2					<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/27/2018	<2	<2	<2					<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/16/2018	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/16/2019	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/1/2019	<2	<2	<2	<2	<2	<2	<2	<20	<2
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2020	<2	<2	<2	<2	<2	<2	<2	<10	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/7/2020	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	0.4J	<1	<1	<1
Carbon Tetrachloride	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	0.4J	<1
Carbon Tetrachloride	7440-66-6	ug/L	10/14/2022	<1	<1	0.4J	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	7440-66-6	ug/L	5/1/2023	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/16/2023	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	4/29/2024	<2	<2	<2	<2	<2	<2	<2	<2	<2
Carbon tetrachloride	7440-66-6	ug/L	10/10/2024				<2.00	<2.00	<2.00			<2.00
Carbon tetrachloride	7440-66-6	ug/L	10/9/2024			<2.00				<2.00	<2.00	
Carbon tetrachloride	7440-66-6	ug/L	10/14/2024	<2.00	<2.00							
Carbonate	7440-66-6	mg/L	6/2/2014	<5	<5	<5	<5		<5	<5	<5	<5
Carbonate	7440-66-6	mg/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbonate	7440-66-6	mg/L	3/30/2020				<10					
Chlordane	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2				
Chlordane	7440-66-6	ug/L	5/10/2010	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane	7440-66-6	ug/L	10/5/2015	<2.13	<2.08	<2.04	<2.02	<2.08	<2.02	<2	<2	<2
Chlordane	7440-66-6	ug/L	3/30/2020	<2.22	<2.13	<2.08	<2.08	<2.08	<2.08	<2.06	<2.08	<2.08
Chloride	7440-66-6	mg/L	6/2/2014	8.52	11.3	69.9	59.7		107	12.5	550	7.27
Chloride	7440-66-6	mg/L	10/15/2014	8.83	10.2	69.6	61.9	232	105	10.3	367	9.42
Chloride	7440-66-6	mg/L	3/30/2020				43.3					
Chlorobenzene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
Chlorobenzene	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
Chlorobenzene	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
Chlorobenzene	7440-66-6	ug/L	10/25/2009	<2	<1	<2	<2	<2	<2	<2	<20	<1
Chlorobenzene	7440-66-6	ug/L	1/2/2010						<1	<1	<10	<1
Chlorobenzene	7440-66-6	ug/L	3/3/2010						<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
Chlorobenzene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
Chlorobenzene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
Chlorobenzene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Chlorobenzene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Chlorobenzene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1.9	<1
Chlorobenzene	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
Chlorobenzene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	0.777J	<1
Chlorobenzene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1

Table 9A
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Chlorobenzene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	0.805J	<1
Chlorobenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	1.24	<1
Chlorobenzene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	0.936J	<1
Chlorobenzene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	4/23/2018					<1	<1	<1		
Chlorobenzene	7440-66-6	ug/L	4/24/2018				<1			<1		
Chlorobenzene	7440-66-6	ug/L	4/25/2018			<1					0.737J	<1
Chlorobenzene	7440-66-6	ug/L	4/27/2018	<1	<1							
Chlorobenzene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	0.691J	<1
Chlorobenzene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
Chlorobenzene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
Chlorobenzene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	0.7J	<1
Chlorobenzene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	0.8J	<1
Chlorobenzene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	0.7J	<1
Chlorobenzene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	0.8J	<1
Chlorobenzene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	0.644J	<1
Chlorobenzene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	0.75J	<1
Chlorobenzene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	0.677J	<1
Chlorobenzene	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
Chlorobenzene	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	0.750J	
Chlorobenzene	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
Chlorobenzilate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Chlorobenzilate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chlorobenzilate	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Chlorobenzilate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Chlorodibromomethane	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5				
Chlorodibromomethane	7440-66-6	ug/L	7/7/2009					<5	<5	<100	<5	
Chlorodibromomethane	7440-66-6	ug/L	9/2/2009					<5	<5	<50	<5	
Chlorodibromomethane	7440-66-6	ug/L	10/25/2009	<5	<10	<5	<5	<5	<5	<50	<5	
Chlorodibromomethane	7440-66-6	ug/L	1/2/2010					<50	<50	<500	<10	
Chlorodibromomethane	7440-66-6	ug/L	3/3/2010					<5	<5	<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	5/10/2010	<10	<5	<5	<5	<5	<5	<5	<25	<5
Chlorodibromomethane	7440-66-6	ug/L	11/1/2010	<5	<5	<5	<5	<5	<5	<5	<25	<5
Chlorodibromomethane	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5	<5	<5	<25	<5
Chlorodibromomethane	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
Chlorodibromomethane	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
Chlorodibromomethane	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/7/2013		<5	<5	<5	<5	<5	<5		<5
Chlorodibromomethane	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<50	<5
Chlorodibromomethane	7440-66-6	ug/L	4/6/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/17/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/23/2018					<5	<5	<5		
Chlorodibromomethane	7440-66-6	ug/L	4/24/2018				<5			<5		
Chlorodibromomethane	7440-66-6	ug/L	4/25/2018			<5					<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/27/2018	<5	<5							
Chlorodibromomethane	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<50	<5
Chlorodibromomethane	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<25	<5

Table 9A
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Chlorodibromomethane	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/10/2024				<5.00	<5.00	<5.00			<5.00
Chlorodibromomethane	7440-66-6	ug/L	10/9/2024			<5.00				<5.00	<5.00	
Chlorodibromomethane	7440-66-6	ug/L	10/14/2024	<5.00	<5.00							
Chloroethane	7440-66-6	ug/L	2/27/2008	<4	<4	<4	12.2	<4				
Chloroethane	7440-66-6	ug/L	5/12/2008	<4	<4	<4	15.7	<4				
Chloroethane	7440-66-6	ug/L	7/13/2008	<4	<4	<4	11.9	<4				
Chloroethane	7440-66-6	ug/L	9/14/2008	<4	<4	<4	12.3	<4				
Chloroethane	7440-66-6	ug/L	11/17/2008	<4	<4	<4	10.1	<4				
Chloroethane	7440-66-6	ug/L	4/14/2009	<4	<4	<4	7.12	<4				
Chloroethane	7440-66-6	ug/L	7/7/2009				7.87		<4	<4	<80	<4
Chloroethane	7440-66-6	ug/L	9/2/2009				6.33		<4	<4	<40	<4
Chloroethane	7440-66-6	ug/L	10/25/2009	<4	<4	<4	5.51	<4	<4	<4	<40	<4
Chloroethane	7440-66-6	ug/L	1/2/2010				6.13		<4	<4	<40	<4
Chloroethane	7440-66-6	ug/L	3/3/2010						4.53	4.25	<4	<4
Chloroethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	5.59	<4	4.51	<4	<20	<4
Chloroethane	7440-66-6	ug/L	7/8/2010						4.17			
Chloroethane	7440-66-6	ug/L	9/13/2010						6.05			
Chloroethane	7440-66-6	ug/L	11/1/2010	<4	<4	<4	5.4	<4	5.91	<4	<20	<4
Chloroethane	7440-66-6	ug/L	1/10/2011						4.35			
Chloroethane	7440-66-6	ug/L	4/4/2011				<4		<4			
Chloroethane	7440-66-6	ug/L	10/13/2011	<4	<4	<4	<4	<4	5	<4	<20	<4
Chloroethane	7440-66-6	ug/L	4/11/2012	<4	<4	<4	<4	<4	<4	<4	<40	<4
Chloroethane	7440-66-6	ug/L	10/11/2012	<4	<4	<4	<4	<4	4.83	<4	<40	<4
Chloroethane	7440-66-6	ug/L	3/30/2013	<4	<4	<4	5.1	<4	5.74	4.6	<4	<4
Chloroethane	7440-66-6	ug/L	10/7/2013			<4	<4	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	6/2/2014	<4	<4	<4	4.9	1.36J	3.17J	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/15/2014	<4	<4	<4	<4	<4	3.22J	<4	<40	<4
Chloroethane	7440-66-6	ug/L	4/6/2015	<4	<4	<4	4.01	1.26J	2.87J	1.58J	<4	<4
Chloroethane	7440-66-6	ug/L	10/5/2015	<4	<4	<4	2.92J	1.02J	2.67J	<4	0.499J	<4
Chloroethane	7440-66-6	ug/L	4/4/2016	<4	<4	<4	2.23J	1.53J	1.96J	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/17/2016	<4	<4	<4	2.79J	1.72J	2.8J	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/17/2017	<4	<4	<4	2.28J	0.985J	1.18J	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/11/2017	<4	<4	<4	2.24J	1.19J	0.717J	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/23/2018					0.884J	0.921J			
Chloroethane	7440-66-6	ug/L	4/24/2018				0.937J			<4		
Chloroethane	7440-66-6	ug/L	4/25/2018			<4					<4	<4
Chloroethane	7440-66-6	ug/L	4/27/2018	<4	<4							
Chloroethane	7440-66-6	ug/L	10/16/2018	<4	<4	<4	1.93J	1.86J	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/16/2019	<4	<4	<4	0.815J	<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/1/2019	<4	<4	<4	1.85J	1.19J	1.36J	<4	<40	<4
Chloroethane	7440-66-6	ug/L	3/30/2020	<4	<4	<4	1.39J	<4	<4	<4	<20	<4
Chloroethane	7440-66-6	ug/L	10/7/2020	<4	<4	<4	1.32J	0.922J	0.85J	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	0.6J; <1	<1	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	1	0.8J	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	0.7J	<1	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	10/14/2022	0.8J	0.6J	<1	0.7J	0.6J	<1	<1	<1	<1
Chloroethane	7440-66-6	ug/L	5/1/2023	<4	<4	<4	<4	1.32J	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/16/2023	<4	<4	<4	0.833J	0.823J	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	4/29/2024	<4	<4	<4	<4	0.824J	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/10/2024				<4.00	<4.00	<4.00			<4.00
Chloroethane	7440-66-6	ug/L	10/9/2024			<4.00				<4.00	<4.00	
Chloroethane	7440-66-6	ug/L	10/14/2024	<4.00	<4.00							
Chloroform	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
Chloroform	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
Chloroform	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				

Table 9A
Analytical Data Summary - Source Characterization Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Chloroform	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
Chloroform	7440-66-6	ug/L	11/17/2008	<1	<1	<2.5	<2.5	<1				
Chloroform	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
Chloroform	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
Chloroform	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
Chloroform	7440-66-6	ug/L	10/25/2009	<2	<1	<2	<2	<2	<2	<2	<20	<1
Chloroform	7440-66-6	ug/L	1/2/2010						<1	<1	<10	<1
Chloroform	7440-66-6	ug/L	3/3/2010						<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
Chloroform	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
Chloroform	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
Chloroform	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Chloroform	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Chloroform	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<2.8	<1
Chloroform	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
Chloroform	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	4.16J	<1
Chloroform	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	4/23/2018					<1	<1			
Chloroform	7440-66-6	ug/L	4/24/2018				<1			<1		
Chloroform	7440-66-6	ug/L	4/25/2018			<1					<1	<1
Chloroform	7440-66-6	ug/L	4/27/2018	<1	<1							
Chloroform	7440-66-6	ug/L	10/16/2018	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	4/16/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	10/1/2019	<3	<3	<3	<3	<3	<3	<3	<30	<3
Chloroform	7440-66-6	ug/L	3/30/2020	<3	<3	<3	<3	<3	<3	<3	<15	<3
Chloroform	7440-66-6	ug/L	10/7/2020	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	7440-66-6	ug/L	5/1/2023	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	10/16/2023	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	4/29/2024	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	10/10/2024				<3.00	<3.00	<3.00			<3.00
Chloroform	7440-66-6	ug/L	10/9/2024			<3.00				<3.00	<3.00	
Chloroform	7440-66-6	ug/L	10/14/2024	<3.00	<3.00							
Chloromethane	7440-66-6	ug/L	2/27/2008	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	5/12/2008	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	7/13/2008	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	9/14/2008	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	11/17/2008	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	4/14/2009	<3	<3	<3	<3	<3				
Chloromethane	7440-66-6	ug/L	7/7/2009						<3	<3	<60	<3
Chloromethane	7440-66-6	ug/L	9/2/2009						<3	<3	<30	<3
Chloromethane	7440-66-6	ug/L	10/25/2009	<3	<3	<3	<3	<3	<3	<3	<30	<3
Chloromethane	7440-66-6	ug/L	1/2/2010						<3	<3	<30	<3
Chloromethane	7440-66-6	ug/L	3/3/2010						<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	5/10/2010	<3	<3	<3	<3	<3	<3	<3	<15	<3
Chloromethane	7440-66-6	ug/L	11/1/2010	<3	<3	<3	<3	<3	<3	<3	<15	<3
Chloromethane	7440-66-6	ug/L	10/13/2011	<3	<3	<3	<3	<3	<3	<3	<15	<3
Chloromethane	7440-66-6	ug/L	4/11/2012	<3	<3	<3	<3	<3	<3	<3	<30	<3
Chloromethane	7440-66-6	ug/L	10/11/2012	<3	<3	<3	<3	<3	<3	<3	<30	<3
Chloromethane	7440-66-6	ug/L	3/30/2013	<3	<3	<3	<3	<3	<3	<3	<3.1	<3
Chloromethane	7440-66-6	ug/L	10/7/2013		<3	<3	<3	<3	<3	<3		<3
Chloromethane	7440-66-6	ug/L	6/2/2014	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/15/2014	<3	<3	<3	<3	<3	<3	<3	<30	<3
Chloromethane	7440-66-6	ug/L	4/6/2015	<3	<3	<3	<3	<3	<3	<3	<3	<3

Table 9A
Analytical Data Summary - Source Characterization Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Chloromethane	7440-66-6	ug/L	10/5/2015	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/4/2016	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/17/2016	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/17/2017	0.315J	<3	<3	0.368J	0.389J	0.348J	0.571J	<3	<3
Chloromethane	7440-66-6	ug/L	10/11/2017	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/23/2018					<3	<3			
Chloromethane	7440-66-6	ug/L	4/24/2018				<3			<3		
Chloromethane	7440-66-6	ug/L	4/25/2018			<3					<3	<3
Chloromethane	7440-66-6	ug/L	4/27/2018	<3	<3							
Chloromethane	7440-66-6	ug/L	10/16/2018	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/16/2019	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/1/2019	<3	<3	<3	<3	<3	<3	<3	<30	<3
Chloromethane	7440-66-6	ug/L	3/30/2020	<3	<3	<3	<3	<3	<3	<3	<15	<3
Chloromethane	7440-66-6	ug/L	10/7/2020	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	7440-66-6	ug/L	5/1/2023	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/16/2023	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	4/29/2024	<3	<3	<3	<3	<3	0.862J	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/10/2024				<3.00	<3.00	<3.00			<3.00
Chloromethane	7440-66-6	ug/L	10/9/2024			<3.00				<3.00	<3.00	
Chloromethane	7440-66-6	ug/L	10/14/2024	<3.00	<3.00							
Chloroprene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
Chloroprene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
Chloroprene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
Chromium	7440-66-6	mg/L	2/27/2008	<0.1	<0.1	<0.1	<0.1	<0.1				
Chromium	7440-66-6	mg/L	5/12/2008	<0.1	<0.1	<0.1	<0.1	<0.1				
Chromium	7440-66-6	mg/L	7/13/2008	<0.1	<0.1	<0.1	<0.1	<0.1				
Chromium	7440-66-6	mg/L	9/14/2008	<0.1	<0.1	<0.1	<0.1	<0.1				
Chromium	7440-66-6	mg/L	11/17/2008	<0.02	<0.02	<0.02	<0.02	<0.02				
Chromium	7440-66-6	mg/L	4/14/2009	<0.1	<0.1	<0.1	<0.1	<0.1				
Chromium	7440-66-6	mg/L	7/7/2009						<0.1	<0.1	<0.1	<0.1
Chromium	7440-66-6	mg/L	9/2/2009						<0.1	<0.1	<0.1	<0.1
Chromium	7440-66-6	mg/L	10/25/2009	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	7440-66-6	mg/L	1/2/2010						<0.1	<0.1	<0.1	<0.1
Chromium	7440-66-6	mg/L	3/3/2010						<0.1	<0.1	<0.1	<0.1
Chromium	7440-66-6	mg/L	5/10/2010	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	11/1/2010						<0.1	<0.1	<0.1	<0.1
Chromium	7440-66-6	mg/L	4/4/2011						<0.1	<0.1	<0.1	<0.1
Chromium	7440-66-6	mg/L	10/13/2011	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	4/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	10/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	3/30/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	10/7/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	6/2/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	10/15/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chromium	7440-66-6	mg/L	4/6/2015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00207J	<0.005
Chromium	7440-66-6	mg/L	10/5/2015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00195J	<0.005
Chromium	7440-66-6	mg/L	4/4/2016	0.000365J	<0.005	<0.005	<0.005	<0.005	0.00102J	<0.005	0.0018J	<0.005
Chromium	7440-66-6	mg/L	10/17/2016	<0.005	<0.005	0.000397J	<0.005	<0.005	0.0012J	<0.005	0.00139J	0.000385J
Chromium	7440-66-6	mg/L	4/17/2017	<0.005	<0.005	<0.005	<0.005	<0.005	0.00074J	<0.005	0.00161J	<0.005
Chromium	7440-66-6	mg/L	10/11/2017	<0.005	<0.005	<0.005	0.000786J	<0.005	0.00115J	<0.005	0.00215J	<0.005
Chromium	7440-66-6	mg/L	4/23/2018					<0.005	<0.005			
Chromium	7440-66-6	mg/L	4/24/2018				<0.005			<0.005		
Chromium	7440-66-6	mg/L	4/25/2018			<0.005					0.00162J	<0.005
Chromium	7440-66-6	mg/L	4/27/2018	<0.005	<0.005							
Chromium	7440-66-6	mg/L	10/16/2018	<0.005	<0.005	0.0036J	0.00786	<0.005	0.00411J	0.00232J	0.00519	0.00155J
Chromium	7440-66-6	mg/L	4/16/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00157J	<0.005
Chromium	7440-66-6	mg/L	10/1/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00191J	<0.005
Chromium	7440-66-6	mg/L	3/30/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00154J	<0.005

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Chromium	7440-66-6	mg/L	10/7/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00157J	<0.005
Chromium	7440-66-6	mg/L	4/13/2021	<0.008	<0.008	<0.008	<0.008	<0.008	0.0006J	<0.008	0.0014J	<0.008
Chromium	7440-66-6	mg/L	10/20/2021	<0.008	<0.008	<0.008	<0.008	<0.008	0.0037J	<0.008	0.0015J	<0.008
Chromium	7440-66-6	mg/L	5/2/2022	<0.008	<0.008	<0.008	<0.008	<0.008	0.0007J	<0.008	0.0013J	<0.008
Chromium	7440-66-6	mg/L	10/14/2022	<0.008	<0.008	<0.008	<0.008	<0.008	0.0012J	<0.008	0.0016J	<0.008
Chromium	7440-66-6	mg/L	5/1/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	10/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.00121J	<0.005	0.00145J	<0.005
Chromium	7440-66-6	mg/L	4/29/2024	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	0.00133J	<0.02
Chromium	7440-66-6	mg/L	10/10/2024				<0.00500	<0.00500	<0.00500			<0.00500
Chromium	7440-66-6	mg/L	10/9/2024			<0.00500				<0.00500	<0.00500	
Chromium	7440-66-6	mg/L	10/14/2024	<0.00500	<0.00500							
Chrysene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Chrysene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chrysene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Chrysene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
cis-1,2-Dichloroethene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	7.42				
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	3.14				
cis-1,2-Dichloroethene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	4.26				
cis-1,2-Dichloroethene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	8.62				
cis-1,2-Dichloroethene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	8.72				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	7.96				
cis-1,2-Dichloroethene	7440-66-6	ug/L	7/7/2009						16.4; 11.8	<1	<20	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	9/2/2009					6.41	12.7	<1	<10	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	7.42	17.6	<1	<10	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	1/2/2010					7.19	16.7	<1	<10	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/3/2010						20.1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	5.33	18	<1	<5	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	7/8/2010						17.5			
cis-1,2-Dichloroethene	7440-66-6	ug/L	9/13/2010						23.4			
cis-1,2-Dichloroethene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	7.63	21.4	<1	<5	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	1/10/2011						15.8			
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2011					6.69	15.4			
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	7.28	17.2	<1	<5	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	4.66	13.4	<1	<10	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	8.81	15	<1	<10	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	6.11	11.4	<1	<1.3	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	6.18; 6.8	11.9	<1		<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	6.77	10.2	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	5.47	13.1	<1	<10	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	5.28	8.77	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	8.19	9.92	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	4.31	6.94	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	0.179J	6.83	9.15	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	4.14	6.33	<1	0.132J	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	6.11	5.23	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/23/2018					5.32	5.42			
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/24/2018			<1				<1		
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/25/2018			<1					<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/27/2018	<1	<1							
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	5.55	4.88	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/18/2019	<1	<1	<1	<1	5.38	3.35	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	5.95	5.34	<1	<10	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	4.78	3.16	<1	<5	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	5.39	4.19	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	3.6	2.4	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	5.8	3.1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	5	2.2	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	5.4	2	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	6.39	1.96	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	6.95	1.91	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	7.46	1.46	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/10/2024				<1.00	7.34	0.504J			<1.00
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	

Table 9A
Analytical Data Summary - Source Characterization Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
cis-1,3-Dichloropropene	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/7/2009						<5	<5	<100	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	9/2/2009						<5	<5	<50	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<5	<5	<5	<50	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	1/2/2010						<5	<5	<50	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/3/2010						<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5	<5	<25	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	11/1/2010	<5	<5	<5	<5	<5	<5	<5	<25	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5	<5	<5	<25	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2013		<5	<5	<5	<5	<5	<5		<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<50	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/6/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/17/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/23/2018					<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/24/2018				<5			<5		
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/25/2018			<5					<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/27/2018	<5	<5							
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<50	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<25	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/10/2024				<5.00	<5.00	<5.00			<5.00
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/9/2024			<5.00				<5.00	<5.00	
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/14/2024	<5.00	<5.00							
Cobalt	7440-66-6	mg/L	2/27/2008	0.0411	0.0247	0.0653	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	5/12/2008	<0.02	0.0203	0.0553	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	7/13/2008	0.02	0.0219	0.058	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	9/14/2008	<0.02	0.0204	0.0547	0.0226	<0.02				
Cobalt	7440-66-6	mg/L	11/17/2008	<0.02	0.0229	0.0595	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	4/14/2009	<0.02	0.0253	0.0595	<0.02	<0.02				
Cobalt	7440-66-6	mg/L	7/7/2009		0.0214	0.0569			<0.02	<0.02	<0.02	<0.02
Cobalt	7440-66-6	mg/L	9/2/2009		<0.02	0.056			<0.02	<0.02	<0.02	<0.02
Cobalt	7440-66-6	mg/L	10/25/2009	<0.02	0.0212	0.0597	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Cobalt	7440-66-6	mg/L	1/2/2010		0.0265	0.0606			<0.02	<0.02	<0.02	<0.02
Cobalt	7440-66-6	mg/L	3/3/2010						<0.02	<0.02	<0.02	<0.02
Cobalt	7440-66-6	mg/L	5/10/2010	0.00546	0.0236	0.0564	0.0067	<0.02	0.00164	0.00159	0.00279	0.0134
Cobalt	7440-66-6	mg/L	7/8/2010						<0.02	<0.02	<0.02	0.0129
Cobalt	7440-66-6	mg/L	9/13/2010						<0.02	<0.02	0.00303	0.00952
Cobalt	7440-66-6	mg/L	11/1/2010	0.00755	0.0219	0.0586	0.00608	<0.02	0.0017	<0.02	0.00209	0.00911
Cobalt	7440-66-6	mg/L	1/10/2011						<0.02	<0.02	<0.02	
Cobalt	7440-66-6	mg/L	4/4/2011						<0.02	0.00305	0.0024	<0.02

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Cobalt	7440-66-6	mg/L	10/13/2011	0.00615	0.0213	0.0585	0.00628	<0.02	<0.02	<0.02	<0.02	0.133
Cobalt	7440-66-6	mg/L	4/11/2012	0.00451	0.0201	0.0612	0.00454	<0.02	<0.02	<0.02	<0.02	0.145
Cobalt	7440-66-6	mg/L	8/1/2012		0.0252							
Cobalt	7440-66-6	mg/L	10/11/2012	0.00492	0.0186	0.0605	0.00316	<0.02	<0.02	<0.02	<0.02	0.0731
Cobalt	7440-66-6	mg/L	3/30/2013	0.00342	0.0258	0.0585	0.00558	0.00215	<0.00132	0.00262	0.00482	0.0605
Cobalt	7440-66-6	mg/L	10/7/2013	<0.007	0.023	0.0717; 0.0686	<0.007	<0.007	<0.007	<0.007	<0.007	0.0509
Cobalt	7440-66-6	mg/L	6/2/2014	0.00328; 0.00343	0.0253	0.0604	0.00265	<0.00241	<0.00241	<0.00241	<0.00241	0.0447
Cobalt	7440-66-6	mg/L	10/15/2014	0.00311	0.0215	0.0646	0.00314	<0.00241	<0.00241	<0.00241	<0.00241	0.0313
Cobalt	7440-66-6	mg/L	4/6/2015	0.00485	0.0252	0.0731; 0.0686	0.00389	0.0013	<0.0005	0.00146	0.00231	0.0127
Cobalt	7440-66-6	mg/L	10/5/2015	0.0049	0.0281	0.0671	0.00301	0.00105	0.000074J	0.00108	0.00198	0.0222
Cobalt	7440-66-6	mg/L	4/4/2016	0.0061	0.0231	0.0736	0.00391	0.00169	0.00004J	0.00125	0.00193	0.018
Cobalt	7440-66-6	mg/L	10/17/2016	0.00392	0.0194	0.065	0.00273	0.000585	0.000084J	0.000974; 0.00109	0.00165	0.0133
Cobalt	7440-66-6	mg/L	4/17/2017	0.0052	0.0256	0.0619	0.00232	0.000878	<0.0005	0.000875	0.00137	0.00252
Cobalt	7440-66-6	mg/L	10/11/2017	0.00512	0.0214	0.0452	0.00419	0.00127	0.000061J	0.00129	0.00155	0.0137; 0.016
Cobalt	7440-66-6	mg/L	4/23/2018					0.0011	<0.0005			
Cobalt	7440-66-6	mg/L	4/24/2018				0.00251			0.000949		
Cobalt	7440-66-6	mg/L	4/25/2018			0.0485					0.00141	0.00938
Cobalt	7440-66-6	mg/L	4/27/2018	0.00576	0.0178							
Cobalt	7440-66-6	mg/L	10/16/2018	0.00507	0.0228	0.048	0.00308	0.00127	0.000622J	0.000911J	0.0021	0.00517
Cobalt	7440-66-6	mg/L	4/16/2019	0.00556	0.034	0.0407	0.00329	0.00102	<0.0005	0.000825	0.00161	0.000655
Cobalt	7440-66-6	mg/L	10/1/2019	0.00419; 0.0046	0.0259	0.0299	0.00319	0.00113	0.000225J	0.000778	0.00202	0.00257
Cobalt	7440-66-6	mg/L	3/30/2020	0.00388	0.0172	0.0289	0.00278	0.000823	<0.0005	0.000812	0.00213	0.000422J
Cobalt	7440-66-6	mg/L	10/7/2020	0.00461	0.025	0.0109	0.00224	0.00184	<0.0005	0.000828	0.00213	0.00247
Cobalt	7440-66-6	mg/L	4/13/2021	0.0041	0.0228	0.0182	0.0027; 0.0026	0.0011	<0.0004	0.0008	0.0017	0.0008
Cobalt	7440-66-6	mg/L	10/20/2021	0.0036	0.018	0.009	0.0019	0.0039	0.0003J	0.0008	0.002	0.0029
Cobalt	7440-66-6	mg/L	5/2/2022	0.0042	0.0246	0.0176	0.0021	0.0011	<0.0004	0.0007	0.0018	0.0006
Cobalt	7440-66-6	mg/L	10/14/2022	0.004	0.0244	0.0108	0.0029	0.01	0.0071	0.0018J	0.0036	0.0009
Cobalt	7440-66-6	mg/L	5/1/2023	0.00499	0.0213	0.0126	0.00218	0.00198	<0.0005	0.00108	0.00177	0.000352J
Cobalt	7440-66-6	mg/L	10/16/2023	0.00113	0.0226	0.0102	0.00165	0.00348	<0.0005	0.00069	0.00207	0.000754
Cobalt	7440-66-6	mg/L	4/29/2024	0.0211	0.0156	0.0202	0.00137	0.000925	<0.0005	0.000567	0.00227	0.000984
Cobalt	7440-66-6	mg/L	10/10/2024				0.00142	0.00184	<0.000500			0.000529
Cobalt	7440-66-6	mg/L	10/9/2024			0.011				0.000706	0.00192	
Cobalt	7440-66-6	mg/L	10/14/2024	0.0025	0.0213							
Copper	7440-66-6	mg/L	2/27/2008	0.092	<0.025	0.047	0.026	<0.025				
Copper	7440-66-6	mg/L	5/12/2008	0.077	0.073	0.031	<0.025	0.027				
Copper	7440-66-6	mg/L	7/13/2008	0.037	0.038	<0.025	<0.025	<0.025				
Copper	7440-66-6	mg/L	9/14/2008	<0.025	<0.025	<0.025	<0.025	<0.025				
Copper	7440-66-6	mg/L	11/17/2008	<0.02	<0.02	<0.02	<0.02	<0.02				
Copper	7440-66-6	mg/L	4/14/2009	<0.025	<0.025	<0.025	<0.025	<0.025				
Copper	7440-66-6	mg/L	7/7/2009						<0.025	<0.025	<0.025	<0.025
Copper	7440-66-6	mg/L	9/2/2009						<0.025	<0.025	<0.025	<0.025
Copper	7440-66-6	mg/L	10/25/2009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.028	<0.025
Copper	7440-66-6	mg/L	1/2/2010						<0.025	<0.025	<0.025	<0.025
Copper	7440-66-6	mg/L	3/3/2010						<0.025	<0.025	<0.025	<0.025
Copper	7440-66-6	mg/L	5/10/2010	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Copper	7440-66-6	mg/L	11/1/2010						<0.025	<0.025	<0.025	<0.025
Copper	7440-66-6	mg/L	4/4/2011						<0.025	<0.025	<0.025	<0.025
Copper	7440-66-6	mg/L	10/13/2011	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.149
Copper	7440-66-6	mg/L	4/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Copper	7440-66-6	mg/L	10/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Copper	7440-66-6	mg/L	3/30/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0208
Copper	7440-66-6	mg/L	10/7/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Copper	7440-66-6	mg/L	6/2/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.00984J
Copper	7440-66-6	mg/L	10/15/2014	<0.02	<0.02	<0.02	<0.02	0.00538J	0.0135J	0.028	<0.02	0.00966J
Copper	7440-66-6	mg/L	4/6/2015	<0.002	0.000602J	<0.002	<0.002	<0.002	0.000646J	<0.002	<0.002	0.00304
Copper	7440-66-6	mg/L	10/5/2015	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Copper	7440-66-6	mg/L	4/4/2016	0.00355J	0.00444J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	7440-66-6	mg/L	10/17/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00216J	<0.005	<0.005
Copper	7440-66-6	mg/L	4/17/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	7440-66-6	mg/L	10/11/2017	0.00347J	0.00248J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	7440-66-6	mg/L	4/23/2018									
Copper	7440-66-6	mg/L	4/24/2018				<0.005			<0.005		
Copper	7440-66-6	mg/L	4/25/2018			<0.005				<0.005		0.00483J

Table 9A
Analytical Data Summary - Source Characterization Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Copper	7440-66-6	mg/L	4/27/2018	0.00351J	<0.005							
Copper	7440-66-6	mg/L	10/16/2018	<0.005	<0.005	0.000929J	0.00178J	<0.002	0.00117J	0.000765J	0.00149J	0.0229
Copper	7440-66-6	mg/L	4/16/2019	<0.005	<0.005	<0.005	<0.005	0.00202J	<0.005	<0.005	<0.005	<0.005
Copper	7440-66-6	mg/L	10/1/2019	<0.005; 0.0111	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	7440-66-6	mg/L	3/30/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	7440-66-6	mg/L	10/7/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	7440-66-6	mg/L	4/13/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0042
Copper	7440-66-6	mg/L	10/20/2021	0.002J	0.0027J	<0.004	<0.004	<0.004	0.0024J	<0.004	0.001J	0.0041
Copper	7440-66-6	mg/L	5/2/2022	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0013J	0.0034J
Copper	7440-66-6	mg/L	10/14/2022	<0.004	0.0021J	<0.004	<0.004	<0.004	0.002J	<0.004	<0.004	0.0014J
Copper	7440-66-6	mg/L	5/1/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00287J	0.00755
Copper	7440-66-6	mg/L	10/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00252J	<0.005	0.00389J
Copper	7440-66-6	mg/L	4/29/2024	<0.005	0.00241J	0.002J	<0.005	<0.005	<0.005	<0.005	<0.005	0.00753
Copper	7440-66-6	mg/L	10/10/2024				<0.00500	<0.00500	<0.00500			0.00555
Copper	7440-66-6	mg/L	10/9/2024			<0.00500				<0.00500	<0.00500	
Copper	7440-66-6	mg/L	10/14/2024	<0.00500	<0.00500							
Cyanide	7440-66-6	mg/L	4/14/2009	<0.01	<0.01	<0.01	<0.01	<0.01				
Cyanide	7440-66-6	mg/L	5/10/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide	7440-66-6	mg/L	10/5/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide	7440-66-6	mg/L	3/30/2020	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Delta-BHC	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
Delta-BHC	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Delta-BHC	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	<0.0333	<0.0323	<0.032	<0.032	<0.032
Delta-BHC	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	0.022J	<0.0333	<0.033	0.00456J	0.00381J
Diallate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Diallate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Diallate	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Diallate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Dibenz [a,h] anthracene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Dibenz [a,h] anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dibenz [a,h] anthracene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Dibenz [a,h] anthracene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Dibenzofuran	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Dibenzofuran	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dibenzofuran	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Dibenzofuran	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Dibromomethane	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
Dibromomethane	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
Dibromomethane	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
Dibromomethane	7440-66-6	ug/L	10/25/2009	<2	<1	<2	<2	<2	<2	<2	<20	<1
Dibromomethane	7440-66-6	ug/L	1/2/2010						<1	<1	<10	<1
Dibromomethane	7440-66-6	ug/L	3/3/2010						<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
Dibromomethane	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
Dibromomethane	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
Dibromomethane	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Dibromomethane	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Dibromomethane	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1.8	<1
Dibromomethane	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1		<1
Dibromomethane	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
Dibromomethane	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/23/2018					<1	<1			

Table 9A
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Dibromomethane	7440-66-6	ug/L	4/24/2018				<1			<1		
Dibromomethane	7440-66-6	ug/L	4/25/2018			<1					<1	<1
Dibromomethane	7440-66-6	ug/L	4/27/2018	<1	<1							
Dibromomethane	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
Dibromomethane	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
Dibromomethane	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
Dibromomethane	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
Dibromomethane	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
Dichlorodifluoromethane	7440-66-6	ug/L	4/14/2009	<3	<3	<3	<3	32				
Dichlorodifluoromethane	7440-66-6	ug/L	7/7/2009					24.7				
Dichlorodifluoromethane	7440-66-6	ug/L	9/2/2009					35.4				
Dichlorodifluoromethane	7440-66-6	ug/L	1/2/2010					35.2				
Dichlorodifluoromethane	7440-66-6	ug/L	5/10/2010	<4	<3	<3	<3	20.6	39.8	<3	<15	<3
Dichlorodifluoromethane	7440-66-6	ug/L	7/8/2010						17.2			
Dichlorodifluoromethane	7440-66-6	ug/L	9/13/2010						32.7			
Dichlorodifluoromethane	7440-66-6	ug/L	11/1/2010					22.4	31.1			
Dichlorodifluoromethane	7440-66-6	ug/L	1/10/2011						23.7			
Dichlorodifluoromethane	7440-66-6	ug/L	4/4/2011					24.5	20.6			
Dichlorodifluoromethane	7440-66-6	ug/L	10/13/2011					47.3	32.2			
Dichlorodifluoromethane	7440-66-6	ug/L	4/11/2012					23.9	28.2			
Dichlorodifluoromethane	7440-66-6	ug/L	10/11/2012					45.8	26.4			
Dichlorodifluoromethane	7440-66-6	ug/L	3/30/2013						22.6			
Dichlorodifluoromethane	7440-66-6	ug/L	10/7/2013					43.5; 42.6	26.6			
Dichlorodifluoromethane	7440-66-6	ug/L	6/2/2014					49	32.8			
Dichlorodifluoromethane	7440-66-6	ug/L	10/15/2014					28.9	30			
Dichlorodifluoromethane	7440-66-6	ug/L	4/6/2015					31.6	31.5			
Dichlorodifluoromethane	7440-66-6	ug/L	10/5/2015	<3	<3	<3	<3	38.9	20.2	<3	<3	<3
Dichlorodifluoromethane	7440-66-6	ug/L	4/4/2016					24.5	17.6			
Dichlorodifluoromethane	7440-66-6	ug/L	10/17/2016					13	25.7			
Dichlorodifluoromethane	7440-66-6	ug/L	4/17/2017					36	23.6			
Dichlorodifluoromethane	7440-66-6	ug/L	10/11/2017					38.7	17			
Dichlorodifluoromethane	7440-66-6	ug/L	4/23/2018					24.5	12.9			
Dichlorodifluoromethane	7440-66-6	ug/L	10/16/2018					25.3	13.7			
Dichlorodifluoromethane	7440-66-6	ug/L	4/16/2019					17.9	10.1			
Dichlorodifluoromethane	7440-66-6	ug/L	10/1/2019					<3	18.7			
Dichlorodifluoromethane	7440-66-6	ug/L	3/30/2020	<3	<3	<3	0.3J	10.4	12.6	<3	<15	<3
Dichlorodifluoromethane	7440-66-6	ug/L	10/7/2020					7.16	10.2			
Dichlorodifluoromethane	7440-66-6	ug/L	4/13/2021					4.5	8			
Dichlorodifluoromethane	7440-66-6	ug/L	5/2/2022					4.1	11.4			
Dichlorodifluoromethane	7440-66-6	ug/L	10/14/2022					2.2	5.2			
Dichlorodifluoromethane	7440-66-6	ug/L	5/1/2023					3.19	7.66			
Dichlorodifluoromethane	7440-66-6	ug/L	10/16/2023					2.8J	6.54			
Dichlorodifluoromethane	7440-66-6	ug/L	4/29/2024					1.84J	<3			
Dichlorodifluoromethane	7440-66-6	ug/L	10/10/2024					1.86J	2.88J			
Dieldrin	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
Dieldrin	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Dieldrin	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	<0.0333	0.0034J	<0.032	0.00456J	0.00351J
Dieldrin	7440-66-6	ug/L	3/30/2020	0.00317J	0.00319J	<0.0333	<0.0333	0.00267J	<0.0333	<0.033	0.00947J	<0.0333
Diethyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Diethyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Diethyl phthalate	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Diethyl phthalate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Dimethoate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				

Table 9A
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Dimethoate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dimethoate	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Dimethoate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Dimethyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Dimethyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dimethyl phthalate	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Dimethyl phthalate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Dimethylaminoazobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Dimethylaminoazobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dimethylaminoazobenzene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Dimethylaminoazobenzene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Di-n-butyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Di-n-butyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Di-n-butyl phthalate	7440-66-6	ug/L	10/5/2015	<10	<10.4	1.41J	<10.3	<10.5	3.87J	<10	<10	<10
Di-n-butyl phthalate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Di-n-octyl phthalate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Di-n-octyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Di-n-octyl phthalate	7440-66-6	ug/L	10/5/2015	<20	<20.8	<20	<20.6	<21.1	<20.4	<20	1.91J	<20
Di-n-octyl phthalate	7440-66-6	ug/L	3/30/2020	<23	<23.5	<20.2	<20.6	<20.8	<20.4	<20.2	<21.3	<20.2
Dinoseb	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Dinoseb	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dinoseb	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Dinoseb	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Diphenylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Diphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Diphenylamine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Diphenylamine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Disulfoton	7440-66-6	ug/L	4/14/2009	<70	<70	<70	<350	<70				
Disulfoton	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Disulfoton	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Disulfoton	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Endosulfan I	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
Endosulfan I	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Endosulfan I	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	<0.0333	<0.0323	<0.032	<0.032	<0.032
Endosulfan I	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	0.00475J	<0.0333	<0.033	<0.0333	<0.0333
Endosulfan II	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
Endosulfan II	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Endosulfan II	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	0.00473J	<0.0323	<0.032	<0.032	<0.032
Endosulfan II	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	<0.0333	<0.0333	<0.033	<0.0333	<0.0333
Endosulfan sulfate	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
Endosulfan sulfate	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Endosulfan sulfate	7440-66-6	ug/L	10/5/2015	<0.034	0.00505J	<0.0327	<0.0323	0.00502J	0.00336J	<0.032	0.0139J	0.00528J
Endosulfan sulfate	7440-66-6	ug/L	3/30/2020	<0.0356	0.00429J	<0.0333	<0.0333	0.00553J	<0.0333	<0.033	0.0041J	<0.0333
Endrin	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
Endrin	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Endrin	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	0.00207J	0.00437J	<0.032	0.00201J	<0.032
Endrin	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	0.00242J	<0.0333	<0.033	<0.0333	<0.0333
Endrin aldehyde	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
Endrin aldehyde	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Endrin aldehyde	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	<0.0333	<0.0323	0.00864J	0.012J	<0.032
Endrin aldehyde	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	<0.0333	<0.0333	<0.033	<0.0333	<0.0333
Ethyl Methacrylate	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2				
Ethyl Methacrylate	7440-66-6	ug/L	5/10/2010	<4	<20	<20	<20	<20	<20	<20	<100	<20
Ethyl Methacrylate	7440-66-6	ug/L	10/5/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2
Ethyl Methacrylate	7440-66-6	ug/L	3/30/2020	<2	<2	<2	<2	<2	<2	<2	<10	<2
Ethyl Methanesulfonate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Ethyl Methanesulfonate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl Methanesulfonate	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Ethyl Methanesulfonate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Ethylbenzene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				

Table 9A
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Ethylbenzene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
Ethylbenzene	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
Ethylbenzene	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
Ethylbenzene	7440-66-6	ug/L	10/25/2009	<2	<1	<2	<2	<2	<2	<2	<20	<1
Ethylbenzene	7440-66-6	ug/L	1/2/2010						<1	<1	<10	<1
Ethylbenzene	7440-66-6	ug/L	3/3/2010						<1	<1	5.6	<1
Ethylbenzene	7440-66-6	ug/L	5/10/2010	<2	<1	<1	<1	<1	<1	<1	5.2	<1
Ethylbenzene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	7.8	<1
Ethylbenzene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	6.75	<1
Ethylbenzene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Ethylbenzene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Ethylbenzene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<2.1	<1
Ethylbenzene	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
Ethylbenzene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	0.656J	<1
Ethylbenzene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
Ethylbenzene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	0.423J	<1
Ethylbenzene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	0.726J	<1
Ethylbenzene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	0.21J	<1
Ethylbenzene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	0.216J	<1
Ethylbenzene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/23/2018					<1	<1			
Ethylbenzene	7440-66-6	ug/L	4/24/2018				<1			<1		
Ethylbenzene	7440-66-6	ug/L	4/25/2018			<1					<1	<1
Ethylbenzene	7440-66-6	ug/L	4/27/2018	<1	<1							
Ethylbenzene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
Ethylbenzene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
Ethylbenzene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
Ethylbenzene	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
Ethylbenzene	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
Famphur	7440-66-6	ug/L	4/14/2009	<20	<20	<20	<100	<20				
Famphur	7440-66-6	ug/L	5/10/2010	<20	<20	<20	<20	<20	<20	<20	<20	<20
Famphur	7440-66-6	ug/L	10/5/2015	<20	<20.8	<20	<20.6	<21.1	<20.4	<20	<20	<20
Famphur	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Fluoranthene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Fluoranthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Fluoranthene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Fluoranthene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Fluorene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Fluorene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Fluorene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Fluorene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Gamma-BHC [Lindane]	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Gamma-BHC [Lindane]	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Gamma-BHC [Lindane]	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	<0.0333	<0.0323	<0.032	0.00361J	0.00235J
Gamma-BHC [Lindane]	7440-66-6	ug/L	3/30/2020	0.00308J	<0.034	0.00412J	<0.0333	0.00501J	0.00437J	<0.033	<0.0333	<0.0333
Gamma-Chlordane	7440-66-6	ug/L	5/10/2010				<0.032		<0.032			
Heptachlor	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
Heptachlor	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Heptachlor	7440-66-6	ug/L	10/5/2015	<0.034	0.00359J	<0.0327	<0.0323	<0.0333	<0.0323	<0.032	<0.032	<0.032
Heptachlor	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	<0.0333	<0.0333	<0.033	0.00478J	<0.0333
Heptachlor Epoxide	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				

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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Heptachlor Epoxide	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Heptachlor Epoxide	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	<0.0333	<0.0323	<0.032	<0.032	<0.032
Heptachlor Epoxide	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	<0.0333	<0.0333	<0.033	<0.0333	<0.0333
Hexachlorobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Hexachlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachlorobenzene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Hexachlorobenzene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Hexachlorobutadiene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Hexachlorobutadiene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachlorobutadiene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Hexachlorobutadiene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Hexachlorocyclopentadiene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Hexachlorocyclopentadiene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachlorocyclopentadiene	7440-66-6	ug/L	10/5/2015	<20	<20.8	<20	<20.6	<21.1	<20.4	<20	<20	<20
Hexachlorocyclopentadiene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Hexachloroethane	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Hexachloroethane	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachloroethane	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Hexachloroethane	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Hexachloropropene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Hexachloropropene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachloropropene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Hexachloropropene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Iodomethane	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10				
Iodomethane	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10				
Iodomethane	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10				
Iodomethane	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10				
Iodomethane	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10				
Iodomethane	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10				
Iodomethane	7440-66-6	ug/L	7/7/2009						<20	<10	<200	<10
Iodomethane	7440-66-6	ug/L	9/2/2009						<10	<10	<100	<10
Iodomethane	7440-66-6	ug/L	10/25/2009	<10	<50	<10	<10	<10	<10	<10	<100	<20
Iodomethane	7440-66-6	ug/L	1/2/2010						<10	<10	<100	<20
Iodomethane	7440-66-6	ug/L	3/3/2010						<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
Iodomethane	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
Iodomethane	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10	<10	<10	<50	<10
Iodomethane	7440-66-6	ug/L	4/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
Iodomethane	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
Iodomethane	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/7/2013		<10	<10	<10	<10	<10	<10		<10
Iodomethane	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<100	<10
Iodomethane	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/23/2018				<10	<10	<10			
Iodomethane	7440-66-6	ug/L	4/24/2018				<10			<10		
Iodomethane	7440-66-6	ug/L	4/25/2018			<10					<10	<10
Iodomethane	7440-66-6	ug/L	4/27/2018	<10	<10							
Iodomethane	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<100	<10
Iodomethane	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<50	<10
Iodomethane	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1

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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Iodomethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	7440-66-6	ug/L	10/14/2022	<1	<1							<1
Iodomethane	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/10/2024				<10.0	<10.0	<10.0			<10.0
Iodomethane	7440-66-6	ug/L	10/9/2024			<10.0				<10.0	<10.0	
Iodomethane	7440-66-6	ug/L	10/14/2024	<10.0	<10.0							
Iron, Total	7440-66-6	mg/L	4/6/2015	25.3	12.4	63.3	35.1	<0.1	<0.1	27.2	56.6	82.4
Iron, Total	7440-66-6	mg/L	10/5/2015	22.5	26.6	61.2	36.7	<0.1	0.221	28.6	60.1	63.6
Iron, Total	7440-66-6	mg/L	4/4/2016	24.8	16.8	64.2	36.2	<0.1	0.0767J	23.9	57.6	75.1
Iron, Total	7440-66-6	mg/L	10/17/2016	23.2	23.1	61.3	36.1	<0.1	<0.1	25.8	50.8	68.8
Iron, Total	7440-66-6	mg/L	10/20/2021	31.9	3.54	35.5	34	0.072J	<0.1	31.1	54.7	46.5
Iron, Total	7440-66-6	mg/L	5/2/2022	29	25.7	40.8	20.4	<0.1	<0.1	30.8	56.1	20.1
Iron, Total	7440-66-6	mg/L	5/1/2023	39.5	20.9	39.6	18.2	0.0426J	<0.1	32.5	51.6	27.4
Iron, Total	7440-66-6	mg/L	4/29/2024	62.5	0.916	25.6	18.3	<0.1	0.0571J	27.4	60.3	5.92
Isobutanol	7440-66-6	mg/L	4/14/2009	<10	<10	<10	<10	<10				
Isobutanol	7440-66-6	mg/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isobutanol	7440-66-6	mg/L	10/5/2015	<10	<10	<10	13.1	<10	<10	<10	<10	<10
Isobutanol	7440-66-6	mg/L	4/4/2016				<10					
Isobutanol	7440-66-6	mg/L	10/11/2016				<10					
Isobutanol	7440-66-6	mg/L	10/17/2016				<20					
Isobutanol	7440-66-6	mg/L	11/14/2016				<10					
Isobutanol	7440-66-6	mg/L	4/17/2017				<10					
Isobutanol	7440-66-6	mg/L	10/11/2017				<10					
Isobutanol	7440-66-6	mg/L	4/24/2018				<10					
Isobutanol	7440-66-6	mg/L	10/16/2018				<10					
Isobutanol	7440-66-6	mg/L	4/16/2019				<10					
Isobutanol	7440-66-6	mg/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	0.844J	<10
Isodrin	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Isodrin	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isodrin	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Isodrin	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Isophorone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Isophorone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isophorone	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Isophorone	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Isosafrole	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Isosafrole	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isosafrole	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Isosafrole	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Kepone	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Kepone	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Kepone	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Kepone	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Lead	7440-66-6	mg/L	2/27/2008	0.07	<0.005	0.01	0.011	<0.005				
Lead	7440-66-6	mg/L	5/12/2008	0.039	0.018	<0.005	<0.005	<0.005				
Lead	7440-66-6	mg/L	7/13/2008	0.03	0.013	<0.005	<0.005	<0.005				
Lead	7440-66-6	mg/L	9/14/2008	0.013	<0.005	<0.005	0.023	<0.005				
Lead	7440-66-6	mg/L	11/17/2008	0.00903	<0.004	<0.004	0.00679	<0.004				
Lead	7440-66-6	mg/L	4/14/2009	<0.005	<0.005	<0.005	0.0093	<0.005				
Lead	7440-66-6	mg/L	7/7/2009				0.006	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	7440-66-6	mg/L	9/2/2009				<0.005	<0.005	<0.004	<0.004	<0.005	0.0052
Lead	7440-66-6	mg/L	10/25/2009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	<0.005
Lead	7440-66-6	mg/L	1/2/2010				<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	7440-66-6	mg/L	3/3/2010					<0.005	<0.005	<0.005	<0.005	<0.005
Lead	7440-66-6	mg/L	5/10/2010	0.0037	<0.002	<0.004	0.0024	<0.002	0.0038	<0.002	<0.004	<0.002
Lead	7440-66-6	mg/L	7/8/2010					<0.005				
Lead	7440-66-6	mg/L	9/13/2010					0.011				
Lead	7440-66-6	mg/L	11/1/2010					<0.005	0.0078	<0.005	<0.005	<0.005
Lead	7440-66-6	mg/L	1/10/2011					<0.004				
Lead	7440-66-6	mg/L	4/4/2011					<0.005	<0.005	<0.005	<0.005	<0.005

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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Lead	7440-66-6	mg/L	10/13/2011	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0349
Lead	7440-66-6	mg/L	4/11/2012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead	7440-66-6	mg/L	10/11/2012	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0131
Lead	7440-66-6	mg/L	3/30/2013	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0109
Lead	7440-66-6	mg/L	10/7/2013	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead	7440-66-6	mg/L	6/2/2014	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.00118J
Lead	7440-66-6	mg/L	10/15/2014	<0.004	<0.004	<0.004	<0.004	<0.004	0.00769	<0.004	<0.004	<0.004
Lead	7440-66-6	mg/L	4/6/2015	<0.0005	<0.0005	<0.0005	0.000585	0.000106J	<0.0005	<0.0005	0.00025J	0.000238J
Lead	7440-66-6	mg/L	10/5/2015	<0.0005	<0.0005	<0.0005	<0.0005	0.000147J	0.00019J	<0.0005	0.000188J	0.000164J
Lead	7440-66-6	mg/L	4/4/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000238J
Lead	7440-66-6	mg/L	10/17/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000394J
Lead	7440-66-6	mg/L	4/17/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	10/11/2017	<0.0005	<0.0005	0.000476J	0.00188	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	4/23/2018					<0.0005	<0.0005			
Lead	7440-66-6	mg/L	4/24/2018				<0.0005			<0.0005		
Lead	7440-66-6	mg/L	4/25/2018			<0.0005					0.000257J	0.000278J
Lead	7440-66-6	mg/L	4/27/2018	0.000477J	<0.0005							
Lead	7440-66-6	mg/L	10/16/2018	0.000292J	<0.0005	<0.0005	0.000545	<0.0005	<0.0005	<0.0005	0.000553	0.00181
Lead	7440-66-6	mg/L	4/16/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	10/1/2019	<0.0005; 0.00161	0.00104	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000584
Lead	7440-66-6	mg/L	3/30/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000726
Lead	7440-66-6	mg/L	10/7/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	4/13/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead	7440-66-6	mg/L	10/20/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.001J	<0.004
Lead	7440-66-6	mg/L	5/2/2022	<0.004	<0.004	<0.004	0.0011J	<0.004	<0.004	<0.004	<0.004	<0.004
Lead	7440-66-6	mg/L	10/14/2022	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Lead	7440-66-6	mg/L	5/1/2023	<0.0005	<0.0005	0.000245J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	10/16/2023	0.000429J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000644
Lead	7440-66-6	mg/L	4/29/2024	<0.0005	<0.0005	0.000706	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000605
Lead	7440-66-6	mg/L	10/10/2024				<0.000500	<0.000500	<0.000500			<0.000500
Lead	7440-66-6	mg/L	10/9/2024			0.000316J				<0.000500	<0.000500	
Lead	7440-66-6	mg/L	10/14/2024	<0.000500	<0.000500							
m/p-Cresol	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
m/p-Cresol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
m/p-Cresol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
m/p-Cresol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Magnesium	7440-66-6	mg/L	6/2/2014	66.6; 67.9	54.4	126	86.2	72.5	72.5	46	131	61.2
Magnesium	7440-66-6	mg/L	10/15/2014	66.7	50	124	87.1	76.7	72	57.7	101	61.2
Magnesium	7440-66-6	mg/L	3/30/2020				80.3					
Manganese	7440-66-6	mg/L	4/6/2015	4.44	10.5	20	1.66	0.406	<0.01	0.872	4.1	19
Manganese	7440-66-6	mg/L	10/5/2015	3.94	11.8	19.5	1.81	0.261	0.0153	1.04	4.66	19.3
Manganese	7440-66-6	mg/L	4/4/2016	4.31	8.36	21.2	1.64	0.474	0.00697J	0.931	4.77	15.2
Manganese	7440-66-6	mg/L	10/17/2016	4.13	8.5	19.7	1.43	0.163	0.00939J	1.1	3.87	17.6
Manganese	7440-66-6	mg/L	10/20/2021	4.02	5.27	12.1	2.03	0.513	0.008	1.34	4.41	10.7
Manganese	7440-66-6	mg/L	5/2/2022	3.89	10.5	13.7	0.929	0.185	<0.005	1.28	4.13	3.92
Manganese	7440-66-6	mg/L	5/1/2023	4.49	8.66	13.8	1.19	0.317	<0.01	1.41	4.58	4.96
Manganese	7440-66-6	mg/L	4/29/2024	4.46	7.61	13.1	1.08	0.14	<0.01	1.32	4.88	10.1
Mercury	7440-66-6	mg/L	4/14/2009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
Mercury	7440-66-6	mg/L	5/10/2010	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mercury	7440-66-6	mg/L	10/5/2015	<0.0002	<0.0002	<0.0002	0.000109J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mercury	7440-66-6	mg/L	3/30/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Methacrylonitrile	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
Methacrylonitrile	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
Methacrylonitrile	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methacrylonitrile	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<50	<10
Methane, Dissolved	7440-66-6	mg/L	4/6/2015	0.274	0.209	1.97	0.437	3.1	0.0039J	4.69	38.7	5.45
Methane, Dissolved	7440-66-6	mg/L	10/5/2015	0.944	0.19	2.02	0.309	2.55	0.0744	2.67	6.96	3.07
Methane, Dissolved	7440-66-6	mg/L	4/4/2016	0.293	0.306	0.00566	0.00468	3.31	0.00784	1.41	12.8	6.5
Methane, Dissolved	7440-66-6	mg/L	10/17/2016	0.293	0.304	2.02	0.266	0.561	0.153	1.32	6.71	3.05
Methapyrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Methapyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methapyrene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Methapyrene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Methoxychlor	7440-66-6	ug/L	4/14/2009	<0.032	<0.032	<0.032	<0.032	<0.032				
Methoxychlor	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Methoxychlor	7440-66-6	ug/L	10/5/2015	<0.034	<0.0333	<0.0327	<0.0323	<0.0333	0.00255J	<0.032	<0.032	<0.032
Methoxychlor	7440-66-6	ug/L	3/30/2020	<0.0356	<0.034	<0.0333	<0.0333	<0.0333	<0.0333	<0.033	<0.0333	<0.0333
Methyl Methacrylate	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2				
Methyl Methacrylate	7440-66-6	ug/L	5/10/2010	<2	<5	<5	<5	<5	<5	<5	<25	<5
Methyl Methacrylate	7440-66-6	ug/L	10/5/2015	<2	<2	<2	<2	<2	<2	<2	<2	<2
Methyl Methacrylate	7440-66-6	ug/L	3/30/2020	<2	<2	<2	<2	<2	<2	<2	<10	<2
Methyl Methanesulfonate	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Methyl Methanesulfonate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Methanesulfonate	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Methyl Methanesulfonate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Methylene Chloride	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5				
Methylene Chloride	7440-66-6	ug/L	7/7/2009						<5	<5	<100	<5
Methylene Chloride	7440-66-6	ug/L	9/2/2009						<5	<5	<50	<5
Methylene Chloride	7440-66-6	ug/L	10/25/2009	<5	<5	<5	<5	<5	<5	<5	<50	<5
Methylene Chloride	7440-66-6	ug/L	1/2/2010						<5	<5	<50	<5
Methylene Chloride	7440-66-6	ug/L	3/3/2010						<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5	<5	<25	<5
Methylene Chloride	7440-66-6	ug/L	11/1/2010	<5	<5	<5	<5	<5	<5	<5	<25	<5
Methylene Chloride	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5	<5	<5	<25	<5
Methylene Chloride	7440-66-6	ug/L	4/1/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
Methylene Chloride	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
Methylene Chloride	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/7/2013		<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	0.268J	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<50	<5
Methylene Chloride	7440-66-6	ug/L	4/6/2015	<5	<5	<5	0.25J	0.478J	0.327J	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/5/2015	0.935J	0.265J	0.809J	0.974J	1.48J	0.362J	0.344J	0.5J	0.285J
Methylene Chloride	7440-66-6	ug/L	4/4/2016	<5	<5	<5	0.302J	0.338J	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/17/2016	0.315J	0.435J	0.429J	0.847J	0.791J	0.556J	0.431J; 0.443J	0.572J	0.282J
Methylene Chloride	7440-66-6	ug/L	4/17/2017	0.405J	0.491J	0.257J	0.754J	1.03J	0.745J	0.676J	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	0.481J	<5	<5	0.204J	<5
Methylene Chloride	7440-66-6	ug/L	4/23/2018					0.644J	0.343J			
Methylene Chloride	7440-66-6	ug/L	4/24/2018				0.414J			0.518J		
Methylene Chloride	7440-66-6	ug/L	4/25/2018			0.448J					0.451J	0.373J
Methylene Chloride	7440-66-6	ug/L	4/27/2018	<5	<5							
Methylene Chloride	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<50	<5
Methylene Chloride	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<25	<5
Methylene Chloride	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	5/2/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/14/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/10/2024				<5.00	<5.00	<5.00			<5.00
Methylene Chloride	7440-66-6	ug/L	10/9/2024			<5.00				<5.00	<5.00	
Methylene Chloride	7440-66-6	ug/L	10/14/2024	<5.00	<5.00							
Naphthalene	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5				
Naphthalene	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5	<5	<25	<5
Naphthalene	7440-66-6	ug/L	10/7/2013						<5			
Naphthalene	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<25	<5
Nickel	7440-66-6	mg/L	2/27/2008	0.064	0.027	0.042	0.033	<0.01				

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Nickel	7440-66-6	mg/L	5/12/2008	0.052	0.064	0.038	0.025	<0.01				
Nickel	7440-66-6	mg/L	7/13/2008	0.038	0.042	0.031	0.021	<0.01				
Nickel	7440-66-6	mg/L	9/14/2008	0.017	0.024	0.034	<0.01	<0.01				
Nickel	7440-66-6	mg/L	11/17/2008	<0.05	<0.05	<0.05	<0.05	<0.05				
Nickel	7440-66-6	mg/L	4/14/2009	<0.01	0.021	0.033	0.031	0.03				
Nickel	7440-66-6	mg/L	7/7/2009		0.019	0.03; 0.028	0.023	<0.01	0.011; <0.01	0.012	0.156	0.015
Nickel	7440-66-6	mg/L	9/2/2009		0.015	0.031	0.023	<0.01	<0.01	0.011	0.148; 0.154	0.022
Nickel	7440-66-6	mg/L	10/25/2009	<0.01	0.015	0.034	0.027	<0.01	<0.01	0.012	0.13	0.019
Nickel	7440-66-6	mg/L	1/2/2010		0.019	0.036	0.028	<0.01	<0.01	0.016	0.17	0.018
Nickel	7440-66-6	mg/L	3/3/2010					<0.01	<0.01	0.019	0.16; 0.15	0.012
Nickel	7440-66-6	mg/L	5/10/2010	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.13	<0.05
Nickel	7440-66-6	mg/L	11/1/2010					<0.01	<0.01	<0.01	0.107	<0.01
Nickel	7440-66-6	mg/L	4/4/2011					<0.01	<0.01	<0.01	0.098	<0.01
Nickel	7440-66-6	mg/L	10/13/2011	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.195
Nickel	7440-66-6	mg/L	4/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0826	0.117
Nickel	7440-66-6	mg/L	10/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0805	0.0726
Nickel	7440-66-6	mg/L	3/30/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0754	0.0622
Nickel	7440-66-6	mg/L	10/7/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0821	0.0693
Nickel	7440-66-6	mg/L	6/2/2014	<0.05	0.0124J	0.0342J	0.0163J	<0.05	<0.05	<0.05	0.0825	0.0558
Nickel	7440-66-6	mg/L	10/15/2014	<0.05	0.0185J	0.0476J	0.0257J	0.0189J	0.0135J	0.0154J	0.0897	0.0414J
Nickel	7440-66-6	mg/L	4/6/2015	0.00223J	0.0139	0.0392; 0.0359	0.013	0.00793	0.00142J	0.0064	0.0707	0.00738
Nickel	7440-66-6	mg/L	10/5/2015	0.00241J	0.0118	0.036	0.013	0.00539	0.00136J	0.00371J	0.0606	0.0162
Nickel	7440-66-6	mg/L	4/4/2016	0.003J	0.0103	0.0363	0.0138	0.00877	<0.005	0.00356J	0.0577	0.0146
Nickel	7440-66-6	mg/L	10/17/2016	0.00229J	0.00893	0.0319	0.0123	0.0043J	<0.005	0.00223J; 0.00237J	0.0474	0.00919
Nickel	7440-66-6	mg/L	4/17/2017	0.00279J	0.0128	0.0317	0.0118	0.00374J	0.00167J	0.0026J	0.0437	0.00372J
Nickel	7440-66-6	mg/L	10/11/2017	0.00279J	0.0166	0.029	0.0131	0.00439J	0.000995J	0.0029J	0.0471	0.0103; 0.0134
Nickel	7440-66-6	mg/L	4/23/2018					0.00375J	0.00137J			
Nickel	7440-66-6	mg/L	4/24/2018				0.0119			0.00288J		
Nickel	7440-66-6	mg/L	4/25/2018			0.0205					0.0392	0.0105
Nickel	7440-66-6	mg/L	4/27/2018	0.00207J	0.0183							
Nickel	7440-66-6	mg/L	10/16/2018	0.00288J	0.012	0.0208	0.0124	0.00492	0.00263	0.00235	0.0446	0.00701
Nickel	7440-66-6	mg/L	4/16/2019	0.00259J	0.0141	0.0167	0.0122	0.00399J	<0.005	0.00272J	0.0384	<0.005
Nickel	7440-66-6	mg/L	10/1/2019	<0.005	0.0113	0.0139	0.0115	0.00362J	0.0018J	0.00238J	0.0474	0.00344J
Nickel	7440-66-6	mg/L	3/30/2020	0.00207J	0.00993	0.0102	0.0101	0.00204J	<0.005	<0.005	0.0473	<0.005
Nickel	7440-66-6	mg/L	10/7/2020	0.00255J	0.012	0.00809	0.00993	0.0042J	<0.005	0.00276J	0.0484	0.00255J
Nickel	7440-66-6	mg/L	4/13/2021	0.0024J	0.012	0.008	0.0087; 0.0086	0.0034J	0.0013J	0.0025J	0.0411	0.001J
Nickel	7440-66-6	mg/L	10/20/2021	0.0024J	0.0219	0.0079	0.0092	0.0067	0.0032J	0.0028J	0.0487	0.0029J
Nickel	7440-66-6	mg/L	5/2/2022	0.0019J	0.0116	0.0086	0.0085	0.004	<0.004	0.0032J	0.0454	<0.004
Nickel	7440-66-6	mg/L	10/14/2022	0.0024J	0.0115	0.0092	0.0086	0.0073	0.0015J	0.0024J	0.0536	0.0016J
Nickel	7440-66-6	mg/L	5/1/2023	0.00267J	0.0127	0.00898	0.00875	0.00534	<0.005	0.0021J	0.049	<0.005
Nickel	7440-66-6	mg/L	10/16/2023	0.00191J	0.0103	0.0112	0.00859	0.00714	<0.005	0.00219J	0.055	0.00349J
Nickel	7440-66-6	mg/L	4/29/2024	0.0123	0.0283	0.0104	0.00813	0.00321J	<0.005	<0.005	0.056	0.00356J
Nickel	7440-66-6	mg/L	10/10/2024				0.00715	0.00402J	<0.00500			<0.00500
Nickel	7440-66-6	mg/L	10/9/2024			0.0104				<0.00500	0.0552	
Nickel	7440-66-6	mg/L	10/14/2024	0.00275J	0.0103							
Nitrate (NO3)	7440-66-6	mg/L	4/6/2015	<0.1	0.461	<0.1	0.301	<0.1	0.106	<0.1	<0.1	<0.1
Nitrate (NO3)	7440-66-6	mg/L	10/5/2015	<0.1	<0.1	<0.1	<0.1	<0.1	0.12	<0.1	<0.1	<0.1
Nitrate (NO3)	7440-66-6	mg/L	4/4/2016	1.2	1.07	<0.1	<0.1	<0.1	0.124	<0.1	0.098J	<0.1
Nitrate (NO3)	7440-66-6	mg/L	10/17/2016	<0.1	1.37	<0.1	<0.1	<0.1	0.128	0.404	0.662	1.13
Nitrate (NO3)	7440-66-6	mg/L	10/20/2021	<0.1	0.6	<0.1	<0.1	<0.1	0.7	<0.1	0.3	<0.1
Nitrate (NO3)	7440-66-6	mg/L	5/2/2022	<0.1	<0.1	<0.1	<0.1	<0.1	1.1	<0.1	0.1	<0.1
Nitrate (NO3)	7440-66-6	mg/L	5/1/2023	<0.2	<0.2	0.278	0.228	<0.2	0.792	<0.2	1.69	<0.2
Nitrate (NO3)	7440-66-6	mg/L	4/29/2024	<0.2	0.395	<0.2	<0.2	0.238	2.1	<0.2	1.27	<0.2
Nitrobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Nitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10				
Nitrobenzene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Nitrobenzene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
N-Nitrosodiethylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
N-Nitrosodiethylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
N-Nitrosodiethylamine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
N-Nitrosodiethylamine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
N-Nitrosodimethylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
N-Nitrosodimethylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
N-Nitrosodimethylamine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
N-Nitrosodimethylamine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
N-Nitrosodiphenylamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
N-Nitrosodiphenylamine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
N-Nitrosodiphenylamine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
N-Nitrosomethylethalamine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
N-Nitrosomethylethalamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
N-Nitrosomethylethalamine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
N-Nitrosomethylethalamine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
N-Nitrosopiperidine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
N-Nitrosopiperidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
N-Nitrosopiperidine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
N-Nitrosopiperidine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
N-Nitrosopyrrolidine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
N-Nitrosopyrrolidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
N-Nitrosopyrrolidine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
N-Nitrosopyrrolidine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	4/14/2009	<30	<30	<30	<150	<30				
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
O-Toluidine	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
O-Toluidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
O-Toluidine	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	0.474J	<10
O-Toluidine	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Parathion-Ethyl	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Parathion-Ethyl	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Parathion-Ethyl	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Parathion-Ethyl	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Parathion-Methyl	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Parathion-Methyl	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Parathion-Methyl	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Parathion-Methyl	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
PCB-1016	7440-66-6	ug/L	4/14/2009	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1016	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PCB-1016	7440-66-6	ug/L	10/5/2015	<0.851	<0.833	<0.8	<0.808	<0.816	<0.825	<0.8	<0.8	<0.8
PCB-1016	7440-66-6	ug/L	3/30/2020	<0.889	<0.851	<0.833	<0.833	<0.833	<0.833	<0.825	<0.833	<0.833
PCB-1221	7440-66-6	ug/L	4/14/2009	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1221	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PCB-1221	7440-66-6	ug/L	10/5/2015	<0.851	<0.833	<0.8	<0.808	<0.816	<0.825	<0.8	<0.8	<0.8
PCB-1221	7440-66-6	ug/L	3/30/2020	<0.889	<0.851	<0.833	<0.833	<0.833	<0.833	<0.825	<0.833	<0.833
PCB-1232	7440-66-6	ug/L	4/14/2009	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1232	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PCB-1232	7440-66-6	ug/L	10/5/2015	<0.851	<0.833	<0.8	<0.808	<0.816	<0.825	<0.8	<0.8	<0.8
PCB-1232	7440-66-6	ug/L	3/30/2020	<0.889	<0.851	<0.833	<0.833	<0.833	<0.833	<0.825	<0.833	<0.833
PCB-1242	7440-66-6	ug/L	4/14/2009	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1242	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PCB-1242	7440-66-6	ug/L	10/5/2015	<0.851	<0.833	<0.8	<0.808	<0.816	<0.825	<0.8	<0.8	<0.8
PCB-1242	7440-66-6	ug/L	3/30/2020	<0.889	<0.851	<0.833	<0.833	<0.833	<0.833	<0.825	<0.833	<0.833
PCB-1248	7440-66-6	ug/L	4/14/2009	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1248	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PCB-1248	7440-66-6	ug/L	10/5/2015	<0.851	<0.833	<0.8	<0.808	<0.816	<0.825	<0.8	<0.8	<0.8
PCB-1248	7440-66-6	ug/L	3/30/2020	<0.889	<0.851	<0.833	<0.833	<0.833	<0.833	<0.825	<0.833	<0.833
PCB-1254	7440-66-6	ug/L	4/14/2009	<0.8	<0.8	<0.8	<0.8	<0.8				

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
PCB-1254	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PCB-1254	7440-66-6	ug/L	10/5/2015	<0.851	<0.833	<0.8	<0.808	<0.816	<0.825	<0.8	<0.8	<0.8
PCB-1254	7440-66-6	ug/L	3/30/2020	<0.889	<0.851	<0.833	<0.833	<0.833	<0.833	<0.825	<0.833	<0.833
PCB-1260	7440-66-6	ug/L	4/14/2009	<0.8	<0.8	<0.8	<0.8	<0.8				
PCB-1260	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
PCB-1260	7440-66-6	ug/L	10/5/2015	<0.851	<0.833	<0.8	<0.808	<0.816	<0.825	<0.8	<0.8	<0.8
PCB-1260	7440-66-6	ug/L	3/30/2020	<0.889	<0.851	<0.833	<0.833	<0.833	<0.833	<0.825	<0.833	<0.833
p-Chloroaniline	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
p-Chloroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
p-Chloroaniline	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
p-Chloroaniline	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Pentachlorobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Pentachlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorobenzene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Pentachlorobenzene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Pentachloronitrobenzene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Pentachloronitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachloronitrobenzene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Pentachloronitrobenzene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Pentachlorophenol [2C]	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Pentachlorophenol [2C]	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pentachlorophenol [2C]	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Pentachlorophenol [2C]	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Phenacetin	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Phenacetin	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenacetin	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Phenacetin	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Phenanthrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Phenanthrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenanthrene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Phenanthrene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Phenol	7440-66-6	ug/L	4/14/2009	<20	<20	<20	<100	<20				
Phenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenol	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Phenol	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Phorate	7440-66-6	ug/L	4/14/2009	<60	<60	<60	<300	<60				
Phorate	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phorate	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Phorate	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Potassium	7440-66-6	mg/L	6/2/2014	<1	1.39	<1	1.27		<1	<1	36.1	1.31
Potassium	7440-66-6	mg/L	10/15/2014	<1	1.42	<1	1.34	<1	<1	0.817J	42.8	1.23
Potassium	7440-66-6	mg/L	3/30/2020				1.16					
Pronamide	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Pronamide	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pronamide	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Pronamide	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Propionitrile	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10				
Propionitrile	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
Propionitrile	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
Propionitrile	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<50	<10
Pyrene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pyrene	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Pyrene	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Safrole	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<50	<10				
Safrole	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<10	<10
Safrole	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Safrole	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Selenium	7440-66-6	mg/L	2/27/2008	<0.01	<0.01	<0.01	<0.01	<0.01				
Selenium	7440-66-6	mg/L	5/12/2008	<0.01	<0.01	<0.01	<0.01	<0.01				
Selenium	7440-66-6	mg/L	7/13/2008	<0.01	<0.01	<0.01	<0.01	<0.01				
Selenium	7440-66-6	mg/L	9/14/2008	<0.01	<0.01	<0.01	<0.01	<0.01				
Selenium	7440-66-6	mg/L	11/17/2008	<0.005	<0.005	<0.005	<0.005	<0.005				

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Selenium	7440-66-6	mg/L	4/14/2009	<0.01	<0.01	<0.01	<0.01	<0.01				
Selenium	7440-66-6	mg/L	7/7/2009						<0.01	<0.01	<0.01	<0.01
Selenium	7440-66-6	mg/L	9/2/2009						<0.01	<0.01	<0.01	<0.01
Selenium	7440-66-6	mg/L	10/25/2009	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	7440-66-6	mg/L	1/2/2010						<0.01	<0.01	<0.01	<0.01
Selenium	7440-66-6	mg/L	3/3/2010						<0.01	<0.01	<0.01	<0.01
Selenium	7440-66-6	mg/L	5/10/2010	0.0053	<0.002	0.0042	0.0059	0.0034	0.0023	<0.002	0.011	<0.002
Selenium	7440-66-6	mg/L	7/8/2010						<0.01		<0.01	
Selenium	7440-66-6	mg/L	9/13/2010						<0.01		<0.01	
Selenium	7440-66-6	mg/L	11/1/2010						<0.01	<0.01	<0.01	<0.01
Selenium	7440-66-6	mg/L	1/10/2011						<0.005		<0.005	
Selenium	7440-66-6	mg/L	4/4/2011						<0.01	<0.01	<0.01	<0.01
Selenium	7440-66-6	mg/L	10/13/2011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	4/11/2012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	10/11/2012	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	3/30/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	10/7/2013	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	6/2/2014	<0.005	<0.005	<0.005	<0.005	0.000833J	<0.005	<0.005	0.0014J	0.000964J
Selenium	7440-66-6	mg/L	10/15/2014	<0.005	<0.005	<0.005	<0.005	<0.005	0.00112J	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	4/6/2015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	10/5/2015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	4/4/2016	<0.005	<0.005	0.000664J	<0.005	<0.005	<0.005	0.0006772J	0.0015J	<0.005
Selenium	7440-66-6	mg/L	10/17/2016	0.00121J	0.00123J	<0.005	<0.005	<0.005	<0.005	<0.005	0.00108J	0.00472J
Selenium	7440-66-6	mg/L	4/17/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00093J	<0.005
Selenium	7440-66-6	mg/L	10/11/2017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00107J	<0.005
Selenium	7440-66-6	mg/L	4/23/2018					<0.005	<0.005			
Selenium	7440-66-6	mg/L	4/24/2018							<0.005		
Selenium	7440-66-6	mg/L	4/25/2018			<0.005					0.00116J	<0.005
Selenium	7440-66-6	mg/L	4/27/2018	<0.005	<0.005							
Selenium	7440-66-6	mg/L	10/16/2018	<0.005	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00102J	<0.0025
Selenium	7440-66-6	mg/L	4/16/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.00174J	<0.005	0.00123J	<0.005
Selenium	7440-66-6	mg/L	10/1/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00156J	<0.005
Selenium	7440-66-6	mg/L	3/30/2020	<0.005	<0.005	<0.005	0.00185J	<0.005	0.00132J	<0.005	0.00134J	<0.005
Selenium	7440-66-6	mg/L	10/7/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00101J	0.0018J
Selenium	7440-66-6	mg/L	4/13/2021	<0.004	<0.004	<0.004	<0.004	<0.004	0.0017J	<0.004	0.0021J	<0.004
Selenium	7440-66-6	mg/L	10/20/2021	<0.004	0.0041	<0.004	<0.004	<0.004	0.0065	<0.004	0.0025J	<0.004
Selenium	7440-66-6	mg/L	5/2/2022	0.0018J	<0.004	0.0018J	<0.004	0.0026J	0.0028J	0.002J	<0.004	<0.004
Selenium	7440-66-6	mg/L	10/14/2022	<0.004	<0.004	<0.004	<0.004	<0.004	0.0035J	<0.004	0.0021J	0.0019J
Selenium	7440-66-6	mg/L	5/1/2023	<0.005	<0.005	0.00156J	<0.005	<0.005	0.00196J	<0.005	0.00154J	<0.005
Selenium	7440-66-6	mg/L	10/16/2023	0.0016J	<0.005	<0.005	<0.005	<0.005	0.0018J	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	4/29/2024	<0.005	<0.005	<0.005	<0.005	<0.005	0.00175J	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	10/10/2024				<0.00500	<0.00500	0.00358J			<0.00500
Selenium	7440-66-6	mg/L	10/9/2024			<0.00500				<0.00500	<0.00500	
Selenium	7440-66-6	mg/L	10/14/2024	<0.00500	<0.00500							
Silver	7440-66-6	mg/L	2/27/2008	<0.01	<0.01	<0.01	<0.01	<0.01				
Silver	7440-66-6	mg/L	5/12/2008	<0.01	<0.01	0.017	<0.01	<0.01				
Silver	7440-66-6	mg/L	7/13/2008	<0.01	<0.01	<0.01	<0.01	<0.01				
Silver	7440-66-6	mg/L	9/14/2008	<0.01	<0.01	<0.01	<0.01	<0.01				
Silver	7440-66-6	mg/L	11/17/2008	<0.02	<0.02	<0.02	<0.02	<0.02				
Silver	7440-66-6	mg/L	4/14/2009	<0.01	<0.01	0.011	<0.01	<0.01				
Silver	7440-66-6	mg/L	7/7/2009			<0.01			<0.01	<0.01	<0.01	<0.01
Silver	7440-66-6	mg/L	9/2/2009			<0.01			<0.01	<0.01	0.017	<0.01
Silver	7440-66-6	mg/L	10/25/2009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Silver	7440-66-6	mg/L	1/2/2010			<0.025			<0.025	<0.025	<0.025	<0.025
Silver	7440-66-6	mg/L	3/3/2010						<0.025	<0.025	<0.025	<0.025
Silver	7440-66-6	mg/L	5/10/2010	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	11/1/2010						<0.025	<0.025	<0.025	<0.025
Silver	7440-66-6	mg/L	4/4/2011						<0.025	<0.025	<0.025	<0.025
Silver	7440-66-6	mg/L	10/13/2011	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	4/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	10/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	3/30/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	10/7/2013	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Silver	7440-66-6	mg/L	6/2/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	10/15/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Silver	7440-66-6	mg/L	4/6/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/5/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000113J	0.000119J
Silver	7440-66-6	mg/L	4/4/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/17/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	4/17/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/11/2017	<0.001	<0.001	0.00014J	<0.001	0.000163J	<0.001	<0.001	0.000165J	<0.001
Silver	7440-66-6	mg/L	4/23/2018					<0.001	<0.001			
Silver	7440-66-6	mg/L	4/24/2018				<0.001			<0.001		
Silver	7440-66-6	mg/L	4/25/2018			<0.001					0.000569J	<0.001
Silver	7440-66-6	mg/L	4/27/2018	<0.001	<0.001							
Silver	7440-66-6	mg/L	10/16/2018	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silver	7440-66-6	mg/L	4/16/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	3/30/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/7/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	4/13/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Silver	7440-66-6	mg/L	10/20/2021	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Silver	7440-66-6	mg/L	5/2/2022	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Silver	7440-66-6	mg/L	10/14/2022	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Silver	7440-66-6	mg/L	5/1/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/16/2023	0.00112	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	4/29/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00911	<0.001
Silver	7440-66-6	mg/L	10/10/2024				<0.00100	<0.00100	<0.00100			<0.00100
Silver	7440-66-6	mg/L	10/9/2024			<0.00100				<0.00100	<0.00100	
Silver	7440-66-6	mg/L	10/14/2024	<0.00100	<0.00100							
Sodium	7440-66-6	mg/L	6/2/2014	12.3; 12.5	36.6	23.9	26.5		12.9	28.2	372	12.1
Sodium	7440-66-6	mg/L	10/15/2014	11.7	38.8	25	28.5	9.64	13.2	29.2	320	11.3
Sodium	7440-66-6	mg/L	3/30/2020				29.6					
Styrene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
Styrene	7440-66-6	ug/L	7/7/2009						<1	<1	<20	<1
Styrene	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
Styrene	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<2	<2	<2	<20	<2
Styrene	7440-66-6	ug/L	1/2/2010						<4	<4	<40	<2
Styrene	7440-66-6	ug/L	3/3/2010						<2	<2	<2	<2
Styrene	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4	<4	<20	<4
Styrene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	<5	<1
Styrene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
Styrene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Styrene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Styrene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/7/2013	<1	<1	<1	<1	<1	<1	<1		<1
Styrene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
Styrene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/23/2018					<1	<1			
Styrene	7440-66-6	ug/L	4/24/2018				<1			<1		
Styrene	7440-66-6	ug/L	4/25/2018			<1					<1	<1
Styrene	7440-66-6	ug/L	4/27/2018	<1	<1							
Styrene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Styrene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
Styrene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
Styrene	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
Styrene	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
Sulfate	7440-66-6	mg/L	6/2/2014	26.9	38	5.07	12.9		69.6	13.2	4.17J	55.3
Sulfate	7440-66-6	mg/L	10/15/2014	28.8	48.3	3.42J	11	26.3	70.4	31.2	<5	51.6
Sulfate	7440-66-6	mg/L	4/6/2015	25.1	49.6	<1	10.4	23.7	70.1	9.11	<1	208
Sulfate	7440-66-6	mg/L	10/5/2015	25.2	49.4	<5	8.78	9.48	74.4	24.1	<5	65.5
Sulfate	7440-66-6	mg/L	4/4/2016	23.3	200	<1	8.66	20	82.9	39.4	0.542J	266
Sulfate	7440-66-6	mg/L	10/17/2016	23.5	39.9	<1	11.5	8.09	69.8	31	<1	109
Sulfate	7440-66-6	mg/L	3/30/2020				49.2					
Sulfate	7440-66-6	mg/L	10/20/2021	16.5	81.7	81	62.8	9	81.1	<1	<1	159
Sulfate	7440-66-6	mg/L	5/2/2022	23.9	64.4	109	69.6	12.3	82.1	2.7	<1	789
Sulfate	7440-66-6	mg/L	5/1/2023	57.3	181	48.9	73.6	13.1	79.6	23.4	<1	717
Sulfate	7440-66-6	mg/L	4/29/2024	460	98.7	111	74.7	18.1	76.9	39.5	<1	693
Sulfide	7440-66-6	mg/L	4/14/2009			<1	<1		<1			
Sulfide	7440-66-6	mg/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	3.6	<1
Sulfide	7440-66-6	mg/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	11.9	<1
Sulfide	7440-66-6	mg/L	3/30/2020	<1	<1	7.37	<1	<1	<1	2.08	1.12	0.627J
Sulfide	7440-66-6	mg/L	10/7/2020			<10				<10	<10	
Sulfide	7440-66-6	mg/L	4/13/2021			<0.1				0.025J	<0.1	
Sulfide	7440-66-6	mg/L	5/2/2022			<0.1				0.053J	0.042J	
Sulfide	7440-66-6	mg/L	10/14/2022			<0.1				0.059J	0.12	
Sulfide	7440-66-6	mg/L	10/16/2023			<1				<1	0.82J	
Sulfide	7440-66-6	mg/L	10/9/2024			<1.00				<1.00	1.47	
Tetrachloroethene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	13.4				
Tetrachloroethene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	6.13				
Tetrachloroethene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	6.62				
Tetrachloroethene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	13.4				
Tetrachloroethene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	11.1				
Tetrachloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	11.4				
Tetrachloroethene	7440-66-6	ug/L	7/7/2009					10.4	9.89; 4.97	<1	<20	<1
Tetrachloroethene	7440-66-6	ug/L	9/2/2009					11.1	7.9	<1	<10	<1
Tetrachloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	11.4	9.87	<1	<10	<1
Tetrachloroethene	7440-66-6	ug/L	1/2/2010					8.9	7.69	<1	<10	<1
Tetrachloroethene	7440-66-6	ug/L	3/3/2010						9.89	<2	<2	<2
Tetrachloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	8.05	11	<1	<5	<1
Tetrachloroethene	7440-66-6	ug/L	7/8/2010						8.66			
Tetrachloroethene	7440-66-6	ug/L	9/13/2010						10.7			
Tetrachloroethene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	10.2	9.58	<1	<5	<1
Tetrachloroethene	7440-66-6	ug/L	1/10/2011						7.85			
Tetrachloroethene	7440-66-6	ug/L	4/4/2011					10.5	7.06			
Tetrachloroethene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	11.8	5.86	<1	<5	<1
Tetrachloroethene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	5.94	5.82	<1	<10	<1
Tetrachloroethene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	11.2	5.59	<1	<10	<1
Tetrachloroethene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	8.14	4.62	<1	<1.8	<1
Tetrachloroethene	7440-66-6	ug/L	10/7/2013		<1	<1	<1	9.77; 9.67	4.15	<1		<1
Tetrachloroethene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	10.4	6.8	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	6.78	6.55	<1	<10	<1
Tetrachloroethene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	6.23	4.58	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	7.96	5.47	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	5.25	4.1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	7.95	5.63	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	6.7	3.84	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	9.05	4.32	<1	<1	<1

Table 9A
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Tetrachloroethene	7440-66-6	ug/L	4/23/2018					7.92	3.15			
Tetrachloroethene	7440-66-6	ug/L	4/24/2018				<1			<1		
Tetrachloroethene	7440-66-6	ug/L	4/25/2018			<1					<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/27/2018	<1	<1							
Tetrachloroethene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	7.4	2.96	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	6.04	2.72	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	7.06	3.39	<1	9.91J	<1
Tetrachloroethene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	5.31	2.59	<1	<5	<1
Tetrachloroethene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	3.58	2.6	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	3.2	2	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	4.1	2.2	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	2.8	1.4	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	2.9	2	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	2.65	1.98	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	3.04	2.2	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	2.15	1.83	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/10/2024				<1.00	2.61	1.69			<1.00
Tetrachloroethene	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
Tetrachloroethene	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
Thallium	7440-66-6	mg/L	2/27/2008	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	5/12/2008	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	7/13/2008	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	9/14/2008	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	11/17/2008	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	4/14/2009	<0.002	<0.002	<0.002	<0.002	<0.002				
Thallium	7440-66-6	mg/L	7/7/2009						<0.002	<0.002	<0.006	<0.002
Thallium	7440-66-6	mg/L	9/2/2009						<0.002	<0.002	<0.006	<0.002
Thallium	7440-66-6	mg/L	10/25/2009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	1/2/2010						<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	3/3/2010						<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	5/10/2010	<0.0004	<0.0004	<0.0008	<0.0004	<0.0004	<0.0004	<0.0004	<0.0008	<0.0004
Thallium	7440-66-6	mg/L	11/1/2010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	10/13/2011	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	4/11/2012	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	10/11/2012	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	3/30/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	10/7/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	6/2/2014	<0.002	<0.002	0.00101J	<0.002	<0.002	0.000819J	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	10/15/2014	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	4/6/2015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/5/2015	<0.001	0.000066J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000035J
Thallium	7440-66-6	mg/L	4/4/2016	<0.001	0.000038J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00003J
Thallium	7440-66-6	mg/L	10/17/2016	<0.001	<0.001	<0.001	0.000032J	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	4/17/2017	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/11/2017	<0.001	0.000093J	0.00011J	<0.001	<0.001	<0.001	<0.001	0.000071J	<0.001
Thallium	7440-66-6	mg/L	4/23/2018					<0.001	<0.001			
Thallium	7440-66-6	mg/L	4/24/2018				<0.001			<0.001		
Thallium	7440-66-6	mg/L	4/25/2018			<0.001					<0.001	<0.001
Thallium	7440-66-6	mg/L	4/27/2018	<0.001	<0.001							
Thallium	7440-66-6	mg/L	10/16/2018	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	4/16/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/1/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	3/30/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/7/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	4/13/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	10/20/2021	<0.002	<0.002	<0.002	<0.002	<0.002	0.0003J	<0.002	<0.002	0.0003J
Thallium	7440-66-6	mg/L	5/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	10/14/2022	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	7440-66-6	mg/L	5/1/2023	<0.001	<0.001	0.00434	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/16/2023	0.0136	0.00103	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	4/29/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/10/2024				0.000592J	0.000755J	<0.00100			0.000832J
Thallium	7440-66-6	mg/L	10/9/2024			<0.00100				<0.00100	<0.00100	

Table 9A
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Thallium	7440-66-6	mg/L	10/14/2024	<0.00100	<0.00100							
Thionazin	7440-66-6	ug/L	4/14/2009			<10	<50					
Thionazin	7440-66-6	ug/L	5/10/2010			<10	<10				<10	
Thionazin	7440-66-6	ug/L	10/5/2015	<10	<10.4	<10	<10.3	<10.5	<10.2	<10	<10	<10
Thionazin	7440-66-6	ug/L	3/30/2020	<11.5	<11.8	<10.1	<10.3	<10.4	<10.2	<10.1	<10.6	<10.1
Tin	7440-66-6	mg/L	4/14/2009	<0.1	<0.1	<0.1	<0.1	<0.1				
Tin	7440-66-6	mg/L	5/10/2010	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Tin	7440-66-6	mg/L	10/5/2015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00278J	<0.005
Tin	7440-66-6	mg/L	3/30/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
Toluene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
Toluene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	13.5	<1				
Toluene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	6.06	<1				
Toluene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	2.29	<1				
Toluene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
Toluene	7440-66-6	ug/L	7/7/2009						<1	<1	108	<1
Toluene	7440-66-6	ug/L	9/2/2009						<1	<1	240	<1
Toluene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1	<1	980	<1
Toluene	7440-66-6	ug/L	1/2/2010						<1	<1	489	<1
Toluene	7440-66-6	ug/L	3/3/2010						<1	<1	131	<1
Toluene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	<1	<1	32.1	<1
Toluene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	<1	<1	10.6	<1
Toluene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
Toluene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Toluene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
Toluene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<1.5	<1
Toluene	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
Toluene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	<1	<1	0.611J	<1
Toluene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	0.278J	<1	<1	<1	<10	<1
Toluene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	<1	<1	<1	0.395J	<1
Toluene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	<1	<1	0.776J	<1
Toluene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	<1	<1	0.495J	<1
Toluene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	<1	<1	<1	0.577J	<1
Toluene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	<1	<1	<1	0.513J	<1
Toluene	7440-66-6	ug/L	4/23/2018					<1	<1			
Toluene	7440-66-6	ug/L	4/24/2018				<1			<1		
Toluene	7440-66-6	ug/L	4/25/2018			<1					0.342J	<1
Toluene	7440-66-6	ug/L	4/27/2018	<1	<1							
Toluene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	<1	<1	<1	5.1	<1
Toluene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	<1	<1	<1	<10	<1
Toluene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
Toluene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	0.3J	<1
Toluene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	0.3J	<1
Toluene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	0.3J	<1
Toluene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	0.4J	<1
Toluene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
Toluene	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
Toluene	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
Total Organic Carbon	7440-66-6	mg/L	4/6/2015	4.93	6.83	9.52	4.33	1.17	1.56	10.9	73.7	8.93
Total Organic Carbon	7440-66-6	mg/L	10/5/2015	4.44	7.05	12.1	4.67	1.5	1.77	9.76	7.37	16.2
Total Organic Carbon	7440-66-6	mg/L	4/4/2016	5.03	6.15	11.6	4.81	1.31	1.72	9.54	62.6	11.9
Total Organic Carbon	7440-66-6	mg/L	10/17/2016	4.84	6.47	6.54	5.08	0.585J	0.991J	9.2	24.4	17.7
Total Organic Carbon	7440-66-6	mg/L	10/20/2021	6.92	5.97	13.5	5.82	2.4	2.07	10.1	70.6	25.8
Total Organic Carbon	7440-66-6	mg/L	5/2/2022	6.94	7.52	13.3	4.89	3.09	2.19	10.7	55.4	4.16
Total Organic Carbon	7440-66-6	mg/L	5/1/2023	8.8	7.21	15.6	4.44	2.59	2.51	13.2	57.9	4.34
Total Organic Carbon	7440-66-6	mg/L	4/29/2024	5.72	6.05	12.1	5.44	2	2.41	11.7	21	21
Total Suspended Solids	7440-66-6	mg/L	6/2/2014	70	36	123	61.3	<5	<5	65	109	48

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Total Suspended Solids	7440-66-6	mg/L	10/15/2014	37	5.2	112	79.3	<1.88	4.25	83	59	46
Total Suspended Solids	7440-66-6	mg/L	4/6/2015	16.1	5.88	104; 111	63	<2.5	<2.5	55	68	85
Total Suspended Solids	7440-66-6	mg/L	10/5/2015	22.4	26.1	91.6	56.6	<1.88	<1.88	56	78	120
Total Suspended Solids	7440-66-6	mg/L	4/4/2016	32.9	19	126	76.1	0.875J	1J	64.1	104	104
Total Suspended Solids	7440-66-6	mg/L	10/11/2016				68.9				106	
Total Suspended Solids	7440-66-6	mg/L	10/17/2016	51.8	40.4	98.5	53.5	0.75J	1.5J	53.5; 55	119	113
Total Suspended Solids	7440-66-6	mg/L	11/14/2016				64.9				115	
Total Suspended Solids	7440-66-6	mg/L	4/17/2017	66.2	45.6	166	82.5	2.13	3.87	67.6	112	93.3
Total Suspended Solids	7440-66-6	mg/L	10/11/2017	49.8	22.7	84.7	167	3.38	1.38J	66.4	93	83.6; 92.5
Total Suspended Solids	7440-66-6	mg/L	4/23/2018					1.13J	1.5J			
Total Suspended Solids	7440-66-6	mg/L	4/24/2018				40.9			71.6		
Total Suspended Solids	7440-66-6	mg/L	4/25/2018			17.6					199	106
Total Suspended Solids	7440-66-6	mg/L	4/27/2018	128	15.6							
Total Suspended Solids	7440-66-6	mg/L	10/16/2018	55.5	13.1	93	85	1.75J	2	59	84	55
Total Suspended Solids	7440-66-6	mg/L	4/16/2019	76	72	105	46.9	1.75J	<1.88	95.5	107	52.5
Total Suspended Solids	7440-66-6	mg/L	10/1/2019	31.1; 33.6	19.4	91	46	2.38	0.75J	56	96	28.5
Total Suspended Solids	7440-66-6	mg/L	3/30/2020	34	18	58	48	1.63J	<1.88	78	124	12.8
Total Suspended Solids	7440-66-6	mg/L	10/7/2020	60	48	94	66	1.13J	<1.88	66	128	98
Total Suspended Solids	7440-66-6	mg/L	4/13/2021	95	47	86	44; 48	<2	3	63	82	31
Total Suspended Solids	7440-66-6	mg/L	10/20/2021	86	9	88	76	<2	<1	82	110	85
Total Suspended Solids	7440-66-6	mg/L	5/2/2022	73	89	108	45	<2	<2	94	123	27
Total Suspended Solids	7440-66-6	mg/L	10/14/2022	16	27	78	99	3	<2	65	111	94
Total Suspended Solids	7440-66-6	mg/L	5/1/2023	182	65	104	37	1.63J	<1.88	50	106	43
Total Suspended Solids	7440-66-6	mg/L	10/16/2023	34	23.5	92	81	2.5	1.63J	62	129	121
Total Suspended Solids	7440-66-6	mg/L	4/29/2024	167	3.75	61.3	42.3	3.25	1.63J	68.7	132	24.5
Total Suspended Solids	7440-66-6	mg/L	10/10/2024				78	2.63	<1.88			24.8
Total Suspended Solids	7440-66-6	mg/L	10/9/2024			46				67	140	
Total Suspended Solids	7440-66-6	mg/L	10/14/2024	25.5	9.33							
Toxaphene	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2		<2	<2	<2
Toxaphene	7440-66-6	ug/L	5/10/2010	<2		<2	<2	<2		<2		
Toxaphene	7440-66-6	ug/L	10/5/2015	<2.13	<2.08	<2.04	<2.02	<2.08	<2.02	<2	<2	<2
Toxaphene	7440-66-6	ug/L	3/30/2020	<2.22	<2.13	<2.08	<2.08	<2.08	<2.08	<2.06	<2.08	<2.08
trans-1,2-Dichloroethene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/7/2009					<1	<1; 1.08	<1	<20	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	9/2/2009						<1	<1	<10	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	<1	<1	<1	<10	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	1/2/2010						<1	<1	<10	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/3/2010						1.01	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	<1	1.11	<1	<5	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/8/2010						<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	9/13/2010						1.35			
trans-1,2-Dichloroethene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	<1	1.09	<1	<5	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	1/10/2011						<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2011						<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	<1	<1	<1	<5	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	<1	<1	<1	<10	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	<1	<1	<1	<2.1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2013		<1	<1	<1	<1	<1	<1		<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	<1	0.597J	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	<1	<1	<1	<10	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	0.336J	0.326J	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	<1	0.338J	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	<1	0.325J	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	0.524J	0.461J	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	0.346J	0.429J	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	0.347J	0.281J	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/23/2018					0.33J	0.322J			

Table 9A
Analytical Data Summary - Source Characterization Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/24/2018				<1			<1		
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/25/2018			<1					<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/27/2018	<1	<1							
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	0.271J	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	0.303J	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	0.307J	0.431J	<1	<10	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	<1	<1	<1	<5	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/10/2024				<1.00	<1.00	<1.00			<1.00
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
trans-1,3-Dichloropropene	7440-66-6	ug/L	2/27/2008	<5	<5	<5	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/12/2008	<5	<5	<5	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	7/13/2008	<5	<5	<5	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	9/14/2008	<5	<5	<5	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	11/17/2008	<5	<5	<5	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/14/2009	<5	<5	<5	<5	<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	7/7/2009						<5	<5	<100	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	9/2/2009						<5	<5	<50	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/25/2009	<5	<10	<5	<5	<5	<5	<5	<50	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	1/2/2010						<10	<10	<100	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/3/2010						<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/10/2010	<5	<5	<5	<5	<5	<5	<5	<25	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	11/1/2010	<10	<5	<10	<10	<10	<10	<10	<25	<10
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/13/2011	<5	<5	<5	<5	<5	<5	<5	<25	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/11/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2012	<5	<5	<5	<5	<5	<5	<5	<50	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2013	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2013		<5	<5	<5	<5	<5	<5		<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	6/2/2014	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/15/2014	<5	<5	<5	<5	<5	<5	<5	<50	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/6/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/5/2015	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/17/2016	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/17/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2017	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/23/2018					<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/24/2018				<5			<5		
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/25/2018			<5					<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/27/2018	<5	<5							
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2018	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/16/2019	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/1/2019	<5	<5	<5	<5	<5	<5	<5	<50	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2020	<5	<5	<5	<5	<5	<5	<5	<25	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2020	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/20/2021	0.4J	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	0.4J	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/1/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2023	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/29/2024	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/10/2024				<5.00	<5.00	<5.00			<5.00
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/9/2024			<5.00				<5.00	<5.00	
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/14/2024	<5.00	<5.00							

Table 9A
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	2/27/2008	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/12/2008	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	7/13/2008	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	9/14/2008	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	11/17/2008	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/14/2009	<10	<10	<10	<10	<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	7/7/2009						<10	<10	<200	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	9/2/2009						<10	<10	<100	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/25/2009	<10	<10	<10	<10	<10	<10	<10	<100	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	1/2/2010						<10	<10	<100	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/3/2010						<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/10/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	11/1/2010	<10	<10	<10	<10	<10	<10	<10	<50	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/13/2011	<10	<10	<10	<10	<10	<10	<10	<50	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/11/2012	<20	<20	<20	<20	<10	<20	<10	<200	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/30/2013	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/7/2013		<10	<10	<10	<10	<10	<10		<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	6/2/2014	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<100	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/23/2018					<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/24/2018				<10			<10		
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/25/2018			<10					<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/27/2018	<10	<10							
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<100	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<50	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/2/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/14/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/10/2024				<10.0	<10.0	<10.0			<10.0
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/9/2024			<10.0				<10.0	<10.0	
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/14/2024	<10.0	<10.0							
Trichloroethene	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	14				
Trichloroethene	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	6.22				
Trichloroethene	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	7.33				
Trichloroethene	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	15				
Trichloroethene	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	13.9				
Trichloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	13.8				
Trichloroethene	7440-66-6	ug/L	7/7/2009					11.9	10.6; 6.58	<1	<20	<1
Trichloroethene	7440-66-6	ug/L	9/2/2009					11.9	8.85	<1	<10	<1
Trichloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	11.9	11.2	<1	<10	<1
Trichloroethene	7440-66-6	ug/L	1/2/2010					10.6	9.61	<1	<10	<1
Trichloroethene	7440-66-6	ug/L	3/3/2010						13.4	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	8.12	13.4	<1	<5	<1
Trichloroethene	7440-66-6	ug/L	7/8/2010						11.8			
Trichloroethene	7440-66-6	ug/L	9/13/2010						16.8			
Trichloroethene	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	12.1	14.7	<1	<5	<1
Trichloroethene	7440-66-6	ug/L	1/10/2011						12.6			
Trichloroethene	7440-66-6	ug/L	4/4/2011					11.6	13.6			
Trichloroethene	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	12.8	15.7	<1	<5	<1

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				D	D	D	D	D	D	D	D	D
Trichloroethene	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	6.44	13	<1	<10	<1
Trichloroethene	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	13.4	12.6	<1	<10	<1
Trichloroethene	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	9.31	11.3	<1	<1.9	<1
Trichloroethene	7440-66-6	ug/L	10/7/2013		<1	<1	<1	10.1; 10.5	11.4	<1		<1
Trichloroethene	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	11.7	10.8	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	7.11	12.4	<1	<10	<1
Trichloroethene	7440-66-6	ug/L	4/6/2015	<1	<1	<1	<1	7.53	9.11	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/5/2015	<1	<1	<1	<1	11.9	9.51	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	6.44	6.53	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	10.6	8.32	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	7.94	6.34	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/11/2017	<1	<1	<1	<1	10	6.15	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/23/2018					9.33	5.96			
Trichloroethene	7440-66-6	ug/L	4/24/2018				<1			<1		
Trichloroethene	7440-66-6	ug/L	4/25/2018			<1					<1	<1
Trichloroethene	7440-66-6	ug/L	4/27/2018	<1	<1							
Trichloroethene	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	8.33	4.81	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	6.79	3.76	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	8.44	5.3	<1	<10	<1
Trichloroethene	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	6.21	3.76	<1	<5	<1
Trichloroethene	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	5.68	4	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	3.4	2.6	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	5.7	2.8	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	3	2.3	<1	0.4J	<1
Trichloroethene	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	4.2	2.6	<1	0.6J	<1
Trichloroethene	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	2.5	1.87	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	3.87	2.3	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	2.16	1.87	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/10/2024				<1.00	2.77	1.39			<1.00
Trichloroethene	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
Trichloroethene	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
Trichlorofluoromethane	7440-66-6	ug/L	2/27/2008	<4	<4	<4	<4	7.19				
Trichlorofluoromethane	7440-66-6	ug/L	5/12/2008	<4	<4	<4	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	7/13/2008	<4	<4	<4	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	9/14/2008	<4	<4	<4	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	11/17/2008	<4	<4	<4	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	4/14/2009	<4	<4	<4	<4	<4				
Trichlorofluoromethane	7440-66-6	ug/L	7/7/2009						<4	<4	<80	<4
Trichlorofluoromethane	7440-66-6	ug/L	9/2/2009						<4	<4	<40	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/25/2009	<4	<4	<4	<4	<4	4.26	<4	<40	<4
Trichlorofluoromethane	7440-66-6	ug/L	1/2/2010						<4	<4	<40	<4
Trichlorofluoromethane	7440-66-6	ug/L	3/3/2010						4.38	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4	<4	<4	<4	<4	<20	<4
Trichlorofluoromethane	7440-66-6	ug/L	11/1/2010	<4	<4	<4	<4	<4	<4	<4	<20	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/13/2011	<4	<4	<4	<4	<4	<4	<4	<20	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/11/2012	<4	<4	<4	<4	<4	<4	<4	<40	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2012	<4	<4	<4	<4	<4	<4	<4	<40	<4
Trichlorofluoromethane	7440-66-6	ug/L	3/30/2013	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/7/2013		<4	<4	<4	<4	<4	<4		<4
Trichlorofluoromethane	7440-66-6	ug/L	6/2/2014	<4	<4	<4	<4	<4	1.44J	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/15/2014	<4	<4	<4	<4	5.9	2.27J	<4	<40	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/6/2015	<4	<4	<4	<4	1.19J	1.1J	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/5/2015	<4	<4	<4	<4	2.02J	0.754J	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/4/2016	<4	<4	<4	<4	0.996J	0.863J	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/17/2016	<4	<4	<4	<4	3.52J	0.971J	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/17/2017	<4	<4	<4	<4	1.61J	0.836J	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2017	<4	<4	<4	<4	1.51J	0.49J	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/23/2018					1.32J	0.516J			
Trichlorofluoromethane	7440-66-6	ug/L	4/24/2018				<4			<4		
Trichlorofluoromethane	7440-66-6	ug/L	4/25/2018			<4					<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/27/2018	<4	<4							
Trichlorofluoromethane	7440-66-6	ug/L	10/16/2018	<4	<4	<4	<4	1.58J	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/16/2019	<4	<4	<4	<4	5.11	<4	<4	<4	<4

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				D	D	D	D	D	D	D	D	D
Trichlorofluoromethane	7440-66-6	ug/L	10/1/2019	<4	<4	<4	<4	6.01	<4	<4	<40	<4
Trichlorofluoromethane	7440-66-6	ug/L	3/30/2020	<4	<4	<4	<4	<4	<4	<4	<20	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/7/2020	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	3.3	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	7.9	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	7440-66-6	ug/L	5/1/2023	<4	<4	<4	<4	<4	0.412J	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/16/2023	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	4/29/2024	<4	<4	<4	<4	<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/10/2024				<4.00	<4.00	<4.00			<4.00
Trichlorofluoromethane	7440-66-6	ug/L	10/9/2024			<4.00				<4.00	<4.00	
Trichlorofluoromethane	7440-66-6	ug/L	10/14/2024	<4.00	<4.00							
Vanadium	7440-66-6	mg/L	2/27/2008	0.135	<0.05	<0.05	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	5/12/2008	<0.05	<0.05	<0.05	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	7/13/2008	<0.05	<0.05	<0.05	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	9/14/2008	<0.05	<0.05	<0.05	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	11/17/2008	<0.05	<0.05	<0.05	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	4/14/2009	<0.05	<0.05	<0.05	<0.05	<0.05				
Vanadium	7440-66-6	mg/L	7/7/2009						<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	9/2/2009						<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	10/25/2009	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	1/2/2010						<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	3/3/2010						<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	5/10/2010	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	11/1/2010	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	10/13/2011	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0514
Vanadium	7440-66-6	mg/L	4/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	10/11/2012	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	3/30/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	10/7/2013	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vanadium	7440-66-6	mg/L	6/2/2014	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0074J	<0.05
Vanadium	7440-66-6	mg/L	10/15/2014	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.00768J	<0.05
Vanadium	7440-66-6	mg/L	4/6/2015	<0.005	<0.005	0.00102J; 0.000918J	<0.005	0.000679J	<0.005	0.00081J	0.00765	0.00203J
Vanadium	7440-66-6	mg/L	10/5/2015	<0.005	<0.005	0.000813J	<0.005	0.000855J	<0.005	0.000551J	0.0063	0.00212J
Vanadium	7440-66-6	mg/L	4/4/2016	0.000527J	<0.005	0.000944J	0.000424J	0.000496J	<0.005	0.000695J	0.00545	0.00204J
Vanadium	7440-66-6	mg/L	10/17/2016	<0.005	<0.005	0.000816J	0.000392J	0.000713J	<0.005	0.000463J; 0.000435J	0.0044J	0.00173J
Vanadium	7440-66-6	mg/L	4/17/2017	<0.005	<0.005	0.000891J	<0.005	<0.005	<0.005	<0.005	0.0027J	0.0014J
Vanadium	7440-66-6	mg/L	10/11/2017	<0.005	<0.005	0.000926J	0.00356J	<0.005	<0.005	<0.005	0.00269J	0.00211J; 0.00212J
Vanadium	7440-66-6	mg/L	4/23/2018					0.000533J	<0.005			
Vanadium	7440-66-6	mg/L	4/24/2018				<0.005			0.000788J		
Vanadium	7440-66-6	mg/L	4/25/2018			0.000796J					0.00293J	0.00159J
Vanadium	7440-66-6	mg/L	4/27/2018	0.00113J	<0.005							
Vanadium	7440-66-6	mg/L	10/16/2018	0.00135J	<0.005	0.00357J	0.00442J	<0.005	0.00364J	0.00362J	0.00641	0.00294J
Vanadium	7440-66-6	mg/L	4/16/2019	0.00118J	0.00129J	0.000837J	<0.005	<0.005	<0.005	0.001J	0.00246J	0.0019J
Vanadium	7440-66-6	mg/L	10/1/2019	<0.005	<0.005	0.000902J	<0.005	<0.005	<0.005	<0.005	0.00379J	0.00195J
Vanadium	7440-66-6	mg/L	3/30/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0037J	0.00139J
Vanadium	7440-66-6	mg/L	10/7/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00277J	0.00311J
Vanadium	7440-66-6	mg/L	4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vanadium	7440-66-6	mg/L	10/20/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vanadium	7440-66-6	mg/L	5/2/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vanadium	7440-66-6	mg/L	10/14/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vanadium	7440-66-6	mg/L	5/1/2023	<0.005	<0.005	0.00124J	<0.005	<0.005	<0.005	<0.005	0.00173J	0.00122J
Vanadium	7440-66-6	mg/L	10/16/2023	<0.005	<0.005	0.0011J	<0.005	<0.005	<0.005	<0.005	0.00277J	0.0022J
Vanadium	7440-66-6	mg/L	4/29/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00337J	0.00239J
Vanadium	7440-66-6	mg/L	10/10/2024				<0.00500	<0.00500	<0.00500			0.00502
Vanadium	7440-66-6	mg/L	10/9/2024			<0.00500				<0.00500	0.00158J	
Vanadium	7440-66-6	mg/L	10/14/2024	<0.00500	<0.00500							
Vinyl Acetate	7440-66-6	ug/L	2/27/2008	<2	<2	<2	<2	<2				
Vinyl Acetate	7440-66-6	ug/L	5/12/2008	<2.5	<2	<2	<2.5	<2.5				
Vinyl Acetate	7440-66-6	ug/L	7/13/2008	<2	<2	<2	<2	<2				
Vinyl Acetate	7440-66-6	ug/L	9/14/2008	<2	<2	<2	<2	<2				
Vinyl Acetate	7440-66-6	ug/L	11/17/2008	<2	<2	<2	<2	<2				

Table 9A
Analytical Data Summary - Source Characterization Wells
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Vinyl Acetate	7440-66-6	ug/L	4/14/2009	<2	<2	<2	<2	<2				
Vinyl Acetate	7440-66-6	ug/L	7/7/2009						<2	<2	<40	<2
Vinyl Acetate	7440-66-6	ug/L	9/2/2009						<2	<2	<20	<2
Vinyl Acetate	7440-66-6	ug/L	10/25/2009	<2	<2	<2	<2	<2	<2	<2	<20	<2
Vinyl Acetate	7440-66-6	ug/L	1/2/2010						<2	<2	<20	<2
Vinyl Acetate	7440-66-6	ug/L	3/3/2010						<2	<2	<2	<2
Vinyl Acetate	7440-66-6	ug/L	5/10/2010	<2	<2	<2	<2	<2	<2	<2	<10	<2
Vinyl Acetate	7440-66-6	ug/L	11/1/2010	<2	<2	<2	<2	<2	<2	<2	<10	<2
Vinyl Acetate	7440-66-6	ug/L	10/13/2011	<2	<10	<2	<2	<50	<50	<2	<10	<2
Vinyl Acetate	7440-66-6	ug/L	4/11/2012	<20	<20	<20	<20	<20	<20	<2	<200	<20
Vinyl Acetate	7440-66-6	ug/L	10/11/2012	<10	<10	<10	<10	<10	<10	<10	<100	<2
Vinyl Acetate	7440-66-6	ug/L	3/30/2013	<2	<2	<2	<2	<2	<2	<2	<7.4	<2
Vinyl Acetate	7440-66-6	ug/L	10/7/2013		<2	<2	<2	<2	<2	<2		<2
Vinyl Acetate	7440-66-6	ug/L	6/2/2014	<2	<2	<2	<2	<2	<2	<2	<2	<2
Vinyl Acetate	7440-66-6	ug/L	10/15/2014	<10	<10	<10	<10	<10	<10	<10	<100	<10
Vinyl Acetate	7440-66-6	ug/L	4/6/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	10/5/2015	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	4/4/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	10/17/2016	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	4/17/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	10/11/2017	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	4/23/2018					<10	<10			
Vinyl Acetate	7440-66-6	ug/L	4/24/2018				<10			<10		
Vinyl Acetate	7440-66-6	ug/L	4/25/2018			<10					<10	<10
Vinyl Acetate	7440-66-6	ug/L	4/27/2018	<10	<10							
Vinyl Acetate	7440-66-6	ug/L	10/16/2018	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	4/16/2019	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	10/1/2019	<10	<10	<10	<10	<10	<10	<10	<100	<10
Vinyl Acetate	7440-66-6	ug/L	3/30/2020	<10	<10	<10	<10	<10	<10	<10	<50	<10
Vinyl Acetate	7440-66-6	ug/L	10/7/2020	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	4/13/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Acetate	7440-66-6	ug/L	10/20/2021	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Acetate	7440-66-6	ug/L	5/2/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Acetate	7440-66-6	ug/L	10/14/2022	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Acetate	7440-66-6	ug/L	5/1/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	10/16/2023	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	4/29/2024	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl acetate	7440-66-6	ug/L	10/10/2024				<10.0	<10.0	<10.0			<10.0
Vinyl acetate	7440-66-6	ug/L	10/9/2024			<10.0				<10.0	<10.0	
Vinyl acetate	7440-66-6	ug/L	10/14/2024	<10.0	<10.0							
Vinyl Chloride	7440-66-6	ug/L	2/27/2008	<1	<1	<1	<1	7.65				
Vinyl Chloride	7440-66-6	ug/L	5/12/2008	<1	<1	<1	<1	2.81				
Vinyl Chloride	7440-66-6	ug/L	7/13/2008	<1	<1	<1	<1	3.28				
Vinyl Chloride	7440-66-6	ug/L	9/14/2008	<1	<1	<1	<1	11				
Vinyl Chloride	7440-66-6	ug/L	11/17/2008	<1	<1	<1	<1	9.47				
Vinyl Chloride	7440-66-6	ug/L	4/14/2009	<1	<1	<1	<1	7.62				
Vinyl Chloride	7440-66-6	ug/L	7/7/2009					6.43	2.63; 1.58	<1	<20	<1
Vinyl Chloride	7440-66-6	ug/L	9/2/2009					5.57	<1	<1	<10	<1
Vinyl Chloride	7440-66-6	ug/L	10/25/2009	<1	<1	<1	<1	7.37	1.29	<1	<10	<1
Vinyl Chloride	7440-66-6	ug/L	1/2/2010					8.79	1.53	<1	<10	<1
Vinyl Chloride	7440-66-6	ug/L	3/3/2010						1.73	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	5/10/2010	<1	<1	<1	<1	4.23	1.69	<1	<5	<1
Vinyl Chloride	7440-66-6	ug/L	7/8/2010						1.23			
Vinyl Chloride	7440-66-6	ug/L	9/13/2010						4.68			
Vinyl Chloride	7440-66-6	ug/L	11/1/2010	<1	<1	<1	<1	8.24	2.3	<1	<5	<1
Vinyl Chloride	7440-66-6	ug/L	1/10/2011						1.12			
Vinyl Chloride	7440-66-6	ug/L	4/4/2011					6.76	1.34			
Vinyl Chloride	7440-66-6	ug/L	10/13/2011	<1	<1	<1	<1	8.63	2.3	<1	<5	<1
Vinyl Chloride	7440-66-6	ug/L	4/11/2012	<1	<1	<1	<1	3.58	<1	<1	<10	<1
Vinyl Chloride	7440-66-6	ug/L	10/11/2012	<1	<1	<1	<1	9.74	1.21	<1	<10	<1
Vinyl Chloride	7440-66-6	ug/L	3/30/2013	<1	<1	<1	<1	5.97	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/7/2013		<1	<1	<1	7.56; 7.7	1.39	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	6/2/2014	<1	<1	<1	<1	6.32	0.395J	<1	<1	<1

Table 9A
Analytical Data Summary - Source Characterization Wells
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Vinyl Chloride	7440-66-6	ug/L	10/15/2014	<1	<1	<1	<1	4.34	0.262J	<1	<10	<1
Vinyl Chloride	7440-66-6	ug/L	4/6/2015	<1	<1	<1	0.296J	6.09	0.177J	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/5/2015	<1	<1	<1	0.159J	8.59	0.333J	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/4/2016	<1	<1	<1	<1	4.46	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/17/2016	<1	<1	<1	<1	8.27	0.532J	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/17/2017	<1	<1	<1	<1	6.21	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/11/2017	<1	<1	<1	0.145J	6	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/23/2018					4.81	0.173J			
Vinyl Chloride	7440-66-6	ug/L	4/24/2018				<1			<1		
Vinyl Chloride	7440-66-6	ug/L	4/25/2018			<1					<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/27/2018	<1	<1							
Vinyl Chloride	7440-66-6	ug/L	10/16/2018	<1	<1	<1	<1	6.36	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/16/2019	<1	<1	<1	<1	4.48	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/1/2019	<1	<1	<1	<1	5.89	0.645J	<1	<10	<1
Vinyl Chloride	7440-66-6	ug/L	3/30/2020	<1	<1	<1	<1	3.32	<1	<1	<5	<1
Vinyl Chloride	7440-66-6	ug/L	10/7/2020	<1	<1	<1	<1	2.56	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/13/2021	<1	<1	<1	<1	2	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/20/2021	<1	<1	<1	<1	3.4	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	5/2/2022	<1	<1	<1	<1	2.9	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/14/2022	<1	<1	<1	<1	1.7	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	5/1/2023	<1	<1	<1	<1	2.28	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/16/2023	<1	<1	<1	<1	2.39	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	4/29/2024	<1	<1	<1	<1	2.46	<1	<1	<1	<1
Vinyl chloride	7440-66-6	ug/L	10/10/2024				<1.00	2.64	<1.00			<1.00
Vinyl chloride	7440-66-6	ug/L	10/9/2024			<1.00				<1.00	<1.00	
Vinyl chloride	7440-66-6	ug/L	10/14/2024	<1.00	<1.00							
Xylenes, Total	7440-66-6	ug/L	2/27/2008	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	5/12/2008	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	7/13/2008	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	9/14/2008	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	11/17/2008	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	4/14/2009	<3	<3	<3	<3	<3				
Xylenes, Total	7440-66-6	ug/L	7/7/2009						<3	<3	<60	<3
Xylenes, Total	7440-66-6	ug/L	9/2/2009						<3	<3	<30	<3
Xylenes, Total	7440-66-6	ug/L	10/25/2009	<6	<3	<6	<6	<6	<6	<6	<60	<4
Xylenes, Total	7440-66-6	ug/L	1/2/2010						<3	<3	<30	<6
Xylenes, Total	7440-66-6	ug/L	3/3/2010						<3	<3	14.8	<3
Xylenes, Total	7440-66-6	ug/L	5/10/2010	<6	<12	<12	<12	<12	<12	<12	<60	<12
Xylenes, Total	7440-66-6	ug/L	11/1/2010	<3	<3	<3	<3	<3	<3	<3	22.6	<3
Xylenes, Total	7440-66-6	ug/L	10/13/2011	<3	<3	<3	<3	<3	<3	<3	20	<3
Xylenes, Total	7440-66-6	ug/L	4/11/2012	<3	<3	<3	<3	<3	<3	<3	<30	<3
Xylenes, Total	7440-66-6	ug/L	10/11/2012	<3	<3	<3	<3	<3	<3	<3	<30	<3
Xylenes, Total	7440-66-6	ug/L	3/30/2013	<3	<3	<3	<3	<3	<3	<3	12.8	<3
Xylenes, Total	7440-66-6	ug/L	10/7/2013	<3	<3	<3	<3	<3	<3	<3		<3
Xylenes, Total	7440-66-6	ug/L	6/2/2014	<3	<3	<3	<3	<3	<3	<3	11	<3
Xylenes, Total	7440-66-6	ug/L	10/15/2014	<3	<3	<3	<3	<3	<3	<3	13.6J	<3
Xylenes, Total	7440-66-6	ug/L	4/6/2015	<3	<3	<3	<3	<3	<3	<3	14.7	<3
Xylenes, Total	7440-66-6	ug/L	10/5/2015	<3	<3	<3	<3	<3	<3	<3	18.8	<3
Xylenes, Total	7440-66-6	ug/L	4/4/2016	<3	<3	<3	<3	<3	<3	<3	15.4	<3
Xylenes, Total	7440-66-6	ug/L	10/17/2016	<3	<3	<3	<3	<3	<3	<3	17	<3
Xylenes, Total	7440-66-6	ug/L	4/17/2017	<3	<3	<3	<3	<3	<3	<3	14.6	<3
Xylenes, Total	7440-66-6	ug/L	10/11/2017	<3	<3	<3	<3	<3	<3	<3	21.4	<3
Xylenes, Total	7440-66-6	ug/L	4/23/2018					<3	<3			
Xylenes, Total	7440-66-6	ug/L	4/24/2018				<3			<3		
Xylenes, Total	7440-66-6	ug/L	4/25/2018			<3					15	<3
Xylenes, Total	7440-66-6	ug/L	4/27/2018	<3	<3							
Xylenes, Total	7440-66-6	ug/L	10/16/2018	<3	<3	<3	<3	<3	<3	<3	15.5	<3
Xylenes, Total	7440-66-6	ug/L	4/16/2019	<3	<3	<3	<3	<3	<3	0.415J	13.6	<3
Xylenes, Total	7440-66-6	ug/L	10/1/2019	<3	<3	<3	<3	<3	<3	<3	8.74J	<3
Xylenes, Total	7440-66-6	ug/L	3/30/2020	<3	<3	<3	<3	<3	<3	<3	12.1J	<3
Xylenes, Total	7440-66-6	ug/L	10/7/2020	<3	<3	<3	<3	<3	<3	<3	10.5	<3
Xylenes, Total	7440-66-6	ug/L	4/13/2021	<2	<2	<2	<2	<2	<2	<2	11	<2
Xylenes, Total	7440-66-6	ug/L	10/20/2021	<2	<2	<2	<2	<2	<2	<2	11.2	<2

Table 9A
Analytical Data Summary - Source Characterization Wells
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	MW-1A	MW-2A-97	MW-6B	MW-11B	MW-16A	MW-206A	MW-207A	MW-209B	MW-212A
				D	D	D	D	D	D	D	D	D
Xylenes, Total	7440-66-6	ug/L	5/2/2022	<2	<2	<2	<2	<2	<2	<2	8.9	<2
Xylenes, Total	7440-66-6	ug/L	10/14/2022	<2	<2	<2	<2	<2	<2	<2	10.4	<2
Xylenes, Total	7440-66-6	ug/L	5/1/2023	<3	<3	<3	<3	<3	<3	<3	6.06	<3
Xylenes, Total	7440-66-6	ug/L	10/16/2023	<3	<3	<3	<3	<3	<3	<3	8.82	<3
Xylenes, Total	7440-66-6	ug/L	4/29/2024	<3	<3	<3	<3	<3	<3	<3	4.68	<3
Xylenes, Total	7440-66-6	ug/L	10/10/2024				<3.00	<3.00	<3.00			<3.00
Xylenes, Total	7440-66-6	ug/L	10/9/2024			<3.00				<3.00	8.58	
Xylenes, Total	7440-66-6	ug/L	10/14/2024	<3.00	<3.00							
Zinc	7440-66-6	mg/L	2/27/2008	0.229	<0.1	<0.1	<0.1	<0.1				
Zinc	7440-66-6	mg/L	5/12/2008	<0.1	<0.1	<0.1	<0.1	<0.1				
Zinc	7440-66-6	mg/L	7/13/2008	0.121	<0.1	<0.1	<0.1	<0.1				
Zinc	7440-66-6	mg/L	9/14/2008	<0.1	<0.1	<0.1	0.117	<0.1				
Zinc	7440-66-6	mg/L	11/17/2008	0.0659	0.0271	0.0272	0.0353	0.077				
Zinc	7440-66-6	mg/L	4/14/2009	<0.1	<0.1	<0.1	<0.1	<0.1				
Zinc	7440-66-6	mg/L	7/7/2009						<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	mg/L	9/2/2009						<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	mg/L	10/25/2009	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	mg/L	1/2/2010						<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	mg/L	3/3/2010						<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	mg/L	5/10/2010	<0.02	0.023	0.044	0.0339	0.0374	0.0494	0.0248	<0.1	0.0372
Zinc	7440-66-6	mg/L	7/8/2010						<0.1	<0.1		<0.1
Zinc	7440-66-6	mg/L	9/13/2010						<0.1	<0.1		<0.1
Zinc	7440-66-6	mg/L	11/1/2010						<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	mg/L	1/10/2011						0.152	0.0302		
Zinc	7440-66-6	mg/L	4/4/2011						<0.1	<0.1	<0.1	<0.1
Zinc	7440-66-6	mg/L	10/13/2011	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1	0.148
Zinc	7440-66-6	mg/L	4/11/2012	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0368	<0.06	0.0282
Zinc	7440-66-6	mg/L	10/11/2012	<0.02	0.0244	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04	0.0531
Zinc	7440-66-6	mg/L	3/30/2013	0.0596	0.037	0.0653	0.0439	0.0544	0.0572	0.0445	0.072	0.0733
Zinc	7440-66-6	mg/L	10/7/2013	0.12	0.123	0.175; 0.184	0.122	0.0971; 0.11	0.14	0.114	0.161	0.128
Zinc	7440-66-6	mg/L	6/2/2014	<0.08	<0.08	<0.02	<0.02	<0.06	<0.02	<0.02	<0.06	<0.02
Zinc	7440-66-6	mg/L	10/15/2014	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	4/6/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	mg/L	10/5/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00938J	<0.01
Zinc	7440-66-6	mg/L	4/4/2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	mg/L	10/17/2016	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	mg/L	4/17/2017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/11/2017	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	4/23/2018					<0.02	<0.02			
Zinc	7440-66-6	mg/L	4/24/2018							<0.02		
Zinc	7440-66-6	mg/L	4/25/2018			<0.02					<0.02	0.0188J
Zinc	7440-66-6	mg/L	4/27/2018	<0.02	<0.02							
Zinc	7440-66-6	mg/L	10/16/2018	<0.02	<0.02	<0.02	0.0104J	<0.02	<0.02	0.00722J	0.00893J	0.0238
Zinc	7440-66-6	mg/L	4/16/2019	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/1/2019	0.0345; <0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0126J
Zinc	7440-66-6	mg/L	3/30/2020	0.272	0.0122J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/7/2020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.0558	<0.02
Zinc	7440-66-6	mg/L	4/13/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/20/2021	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	5/2/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/14/2022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	5/1/2023	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/16/2023	0.0102J	<0.02	<0.02	<0.02	<0.02	0.00785J	<0.02	<0.02	0.00919J
Zinc	7440-66-6	mg/L	4/29/2024	0.0104J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/10/2024				<0.0200	<0.0200	<0.0200			<0.0200
Zinc	7440-66-6	mg/L	10/9/2024			<0.0200				<0.0200	<0.0200	
Zinc	7440-66-6	mg/L	10/14/2024	<0.0200	<0.0200							

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Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	7/7/2009		<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	9/2/2009		<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/3/2010	<2	<2	<2			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	7/8/2011		<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	8/11/2011		<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/13/2011		<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	8/1/2012		<1	<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2012			<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	12/13/2012				<25		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2013	<1			<1		
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/5/2015			<10			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2016			<1			
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/17/2016		<1				
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/17/2017					<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	12/20/2023						<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	3/20/2024						<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
1,1,1,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	7/7/2009		<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	9/2/2009		<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	10/25/2009	<1	<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4			
1,1,1-Trichloroethane	7440-66-6	ug/L	7/8/2011		<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	8/11/2011		<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	10/13/2011		<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	8/1/2012		<1	<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2012			<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	12/13/2012				<25		
1,1,1-Trichloroethane	7440-66-6	ug/L	3/30/2013	<1			<1		
1,1,1-Trichloroethane	7440-66-6	ug/L	10/5/2015			<10			
1,1,1-Trichloroethane	7440-66-6	ug/L	4/4/2016			<1			
1,1,1-Trichloroethane	7440-66-6	ug/L	10/17/2016		<1				
1,1,1-Trichloroethane	7440-66-6	ug/L	4/17/2017					<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
1,1,1-Trichloroethane	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	12/20/2023						<1
1,1,1-Trichloroethane	7440-66-6	ug/L	3/20/2024						<1
1,1,1-Trichloroethane	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
1,1,1-Trichloroethane	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/7/2009		<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	9/2/2009		<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/3/2010	<2	<2	<2			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	7/8/2011		<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	8/11/2011		<1	<1			

Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/13/2011		<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	8/1/2012		<1	<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2012			<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	12/13/2012				<25		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2013	<1			<1		
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/5/2015			<10			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/4/2016			<1			
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/17/2016		<1				
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/17/2017					<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	12/20/2023						<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	3/20/2024						<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	7/7/2009		<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	9/2/2009		<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
1,1,2-Trichloroethane	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	7/8/2011		<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	8/11/2011		<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	10/13/2011		<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	8/1/2012		<1	<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2012			<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	12/13/2012				<25		
1,1,2-Trichloroethane	7440-66-6	ug/L	3/30/2013	<1			<1		
1,1,2-Trichloroethane	7440-66-6	ug/L	10/5/2015			<10			
1,1,2-Trichloroethane	7440-66-6	ug/L	4/4/2016			<1			
1,1,2-Trichloroethane	7440-66-6	ug/L	10/17/2016		<1				
1,1,2-Trichloroethane	7440-66-6	ug/L	4/17/2017					<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	10/20/2021		<1	0.5J	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
1,1,2-Trichloroethane	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	12/20/2023						<1
1,1,2-Trichloroethane	7440-66-6	ug/L	3/20/2024						<1
1,1,2-Trichloroethane	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
1,1,2-Trichloroethane	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	7/7/2009		<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	9/2/2009		<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	10/25/2009	<1	<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	7/8/2011		<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	8/11/2011		<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	10/13/2011		<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	8/1/2012		<1	<1			
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2012			<1			
1,1-Dichloroethane	7440-66-6	ug/L	12/13/2012				<25		
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2013	<1			<1		
1,1-Dichloroethane	7440-66-6	ug/L	10/5/2015			<10			
1,1-Dichloroethane	7440-66-6	ug/L	4/4/2016			<1			

Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
1,1-Dichloroethane	7440-66-6	ug/L	10/17/2016		<1				
1,1-Dichloroethane	7440-66-6	ug/L	4/17/2017					<1	
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2017		<1	0.337J	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	3/15/2018		<1	0.405J	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	4/16/2019		<1	0.43J	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	10/1/2019		<1	0.508J	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	3/30/2020		<1	0.483J	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	5/1/2023		<1	0.3J	<1	<1	
1,1-Dichloroethane	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	12/20/2023						<1
1,1-Dichloroethane	7440-66-6	ug/L	3/20/2024						<1
1,1-Dichloroethane	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
1,1-Dichloroethane	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	7440-66-6	ug/L	4/14/2009	<2	<2				
1,1-Dichloroethene	7440-66-6	ug/L	7/7/2009		<2	<2			
1,1-Dichloroethene	7440-66-6	ug/L	9/2/2009		<2	<2			
1,1-Dichloroethene	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
1,1-Dichloroethene	7440-66-6	ug/L	3/3/2010	<2	<2	<2			
1,1-Dichloroethene	7440-66-6	ug/L	5/10/2010	<2	<2	<2			
1,1-Dichloroethene	7440-66-6	ug/L	7/8/2011		<2	<2			
1,1-Dichloroethene	7440-66-6	ug/L	8/11/2011		<2	<2			
1,1-Dichloroethene	7440-66-6	ug/L	10/13/2011		<2	<2			
1,1-Dichloroethene	7440-66-6	ug/L	4/11/2012		<2	<2	<2	<2	
1,1-Dichloroethene	7440-66-6	ug/L	8/1/2012		<2	<2			
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2012			<2			
1,1-Dichloroethene	7440-66-6	ug/L	12/13/2012				<50		
1,1-Dichloroethene	7440-66-6	ug/L	3/30/2013	<2			<2		
1,1-Dichloroethene	7440-66-6	ug/L	10/5/2015			<20			
1,1-Dichloroethene	7440-66-6	ug/L	4/4/2016			<2			
1,1-Dichloroethene	7440-66-6	ug/L	10/17/2016		<2				
1,1-Dichloroethene	7440-66-6	ug/L	4/17/2017					<2	
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2017		<2	<2	<2	<2	
1,1-Dichloroethene	7440-66-6	ug/L	3/15/2018		<2	<2	<2	<2	
1,1-Dichloroethene	7440-66-6	ug/L	4/26/2018		<2	<2	<2	<2	
1,1-Dichloroethene	7440-66-6	ug/L	10/16/2018		<2	<2	<2	<2	
1,1-Dichloroethene	7440-66-6	ug/L	4/16/2019		<2	<2	<2	<2	
1,1-Dichloroethene	7440-66-6	ug/L	10/1/2019		<2	<2	<2	<2	
1,1-Dichloroethene	7440-66-6	ug/L	3/30/2020		<2	<2	<2	<2	
1,1-Dichloroethene	7440-66-6	ug/L	10/7/2020		<2	<2	<2	<2	
1,1-Dichloroethene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
1,1-Dichloroethene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
1,1-Dichloroethene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
1,1-Dichloroethene	7440-66-6	ug/L	5/1/2023		<2	<2	<2	<2	
1,1-Dichloroethene	7440-66-6	ug/L	8/1/2023			<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/16/2023		<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	12/20/2023						<2
1,1-Dichloroethene	7440-66-6	ug/L	3/20/2024						<2
1,1-Dichloroethene	7440-66-6	ug/L	4/29/2024		<2	<2	<2	<2	<2
1,1-Dichloroethene	7440-66-6	ug/L	10/11/2024		<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	7/7/2009		<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	9/2/2009		<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
1,2,3-Trichloropropane	7440-66-6	ug/L	3/3/2010	<2	<2	<2			
1,2,3-Trichloropropane	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	7/8/2011		<2	<2			
1,2,3-Trichloropropane	7440-66-6	ug/L	8/11/2011		<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	10/13/2011		<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	8/1/2012		<1	<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2012			<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	12/13/2012				<25		
1,2,3-Trichloropropane	7440-66-6	ug/L	3/30/2013	<1			<1		
1,2,3-Trichloropropane	7440-66-6	ug/L	10/5/2015			<10			
1,2,3-Trichloropropane	7440-66-6	ug/L	4/4/2016			<1			
1,2,3-Trichloropropane	7440-66-6	ug/L	10/17/2016		<1				
1,2,3-Trichloropropane	7440-66-6	ug/L	4/17/2017					<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	

Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
1,2,3-Trichloropropane	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
1,2,3-Trichloropropane	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	12/20/2023						<1
1,2,3-Trichloropropane	7440-66-6	ug/L	3/20/2024						<1
1,2,3-Trichloropropane	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
1,2,3-Trichloropropane	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4,5-Tetrachlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
1,2,4-Trichlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/14/2009	<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/7/2009		<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	9/2/2009		<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/25/2009	<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/3/2010	<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	7/8/2011		<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	8/11/2011		<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/13/2011		<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/11/2012		<10	<10	<10	<10	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	8/1/2012		<10	<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2012			<10			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	12/13/2012				<250		
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/30/2013	<10			<10		
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/5/2015			<5			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/4/2016			<0.5			
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/17/2016		<0.5				
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/17/2017					<0.5	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2017		<0.5	<0.5	<0.5	<0.5	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/15/2018		<0.5	<0.5	<0.5	<0.5	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/26/2018		<0.5	<0.5	<0.5	<0.5	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/16/2018		<1.2	<1.2	<1.2	<1.2	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/16/2019		<1.2	<1.2	<1.2	<1.2	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/1/2019		<1.2	<1.2	<1.2	<1.2	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/30/2020		<1.2	<1.2	<1.2	<1.2	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/7/2020		<1.2	<1.2	<1.2	<1.2	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/13/2021		<0.02	<0.02	<0.02	<0.02	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/20/2021		<0.02	<0.02	<0.02	<0.02	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/2/2022		<0.02	<0.02	<0.02	<0.02	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	5/1/2023		<1.2	<1.2	<1.2	<1.2	
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	8/1/2023			<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/16/2023		<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	12/20/2023						<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	3/20/2024						<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	4/29/2024		<1.2	<1.2	<1.2	<1.2	<1.2
1,2-Dibromo-3-Chloropropane	7440-66-6	ug/L	10/11/2024		<1.20	<1.20	<1.20	<1.20	<1.20
1,2-Dibromoethane (EDB)	7440-66-6	ug/L	10/11/2024		<0.340	<0.340	<0.340	<0.340	<0.340
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	4/14/2009	<10	<10	<10			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	7/7/2009		<10	<10			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	9/2/2009		<10	<10			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	10/25/2009	<10	<10	<10			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	3/3/2010	<10	<10	<10			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	7/8/2011		<10	<10			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	8/11/2011		<10	<10			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	10/13/2011		<10	<10			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	4/11/2012		<10	<10	<10	<10	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	8/1/2012		<10	<10			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	10/11/2012			<10			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	12/13/2012				<250		
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	3/30/2013	<10			<10		
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	10/5/2015			<1.3			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	4/4/2016			<0.13			
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	10/17/2016		<0.13				
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	4/17/2017					<0.13	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	10/11/2017		<0.13	<0.13	<0.13	<0.13	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	3/15/2018		<0.13	<0.13	<0.13	<0.13	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	4/26/2018		<0.13	<0.13	<0.13	<0.13	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	10/16/2018		<0.34	<0.34	<0.34	<0.34	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	4/16/2019		<0.34	<0.34	<0.34	<0.34	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	10/1/2019		<0.34	<0.34	<0.34	<0.34	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	3/30/2020		<0.34	<0.34	<0.34	<0.34	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	10/7/2020		<0.34	<0.34	<0.34	<0.34	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	4/13/2021		<0.02	<0.02	<0.02	<0.02	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	10/20/2021		<0.02	<0.02	<0.02	<0.02	

Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	5/2/2022		<0.02	<0.02	<0.02	<0.02	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	5/1/2023		<0.34	<0.34	<0.34	<0.34	
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	8/1/2023			<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	10/16/2023		<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	12/20/2023						<0.34
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	3/20/2024						<0.34
1,2-Dibromoethane [EDB]	7440-66-6	ug/L	4/29/2024		<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	7/7/2009		<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	9/2/2009		<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
1,2-Dichlorobenzene	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	7/8/2011		<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	8/11/2011		<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	10/13/2011		<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	8/1/2012		<1	<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2012			<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	12/13/2012				<25		
1,2-Dichlorobenzene	7440-66-6	ug/L	3/30/2013	<1			<1		
1,2-Dichlorobenzene	7440-66-6	ug/L	10/5/2015			<10			
1,2-Dichlorobenzene	7440-66-6	ug/L	4/4/2016			<1			
1,2-Dichlorobenzene	7440-66-6	ug/L	10/17/2016		<1				
1,2-Dichlorobenzene	7440-66-6	ug/L	4/17/2017					<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
1,2-Dichlorobenzene	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	12/20/2023						<1
1,2-Dichlorobenzene	7440-66-6	ug/L	3/20/2024						<1
1,2-Dichlorobenzene	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
1,2-Dichlorobenzene	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	7/7/2009		<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	9/2/2009		<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
1,2-Dichloroethane	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	7/8/2011		<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	8/11/2011		<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	10/13/2011		<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	8/1/2012		<1	<1			
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2012			<1			
1,2-Dichloroethane	7440-66-6	ug/L	12/13/2012				<25		
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2013	<1			<1		
1,2-Dichloroethane	7440-66-6	ug/L	10/5/2015			<10			
1,2-Dichloroethane	7440-66-6	ug/L	4/4/2016			<1			
1,2-Dichloroethane	7440-66-6	ug/L	10/17/2016		<1				
1,2-Dichloroethane	7440-66-6	ug/L	4/17/2017					<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
1,2-Dichloroethane	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	12/20/2023						<1
1,2-Dichloroethane	7440-66-6	ug/L	3/20/2024						<1
1,2-Dichloroethane	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
1,2-Dichloroethane	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane	7440-66-6	ug/L	4/14/2009	<1	<1	<1			

Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
1,2-Dichloropropane	7440-66-6	ug/L	7/7/2009		<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	9/2/2009		<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	10/25/2009		<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	7/8/2011		<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	8/11/2011		<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	10/13/2011		<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	8/1/2012		<1	<1			
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2012			<1			
1,2-Dichloropropane	7440-66-6	ug/L	12/13/2012				<25		
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2013	<1			<1		
1,2-Dichloropropane	7440-66-6	ug/L	10/5/2015			<10			
1,2-Dichloropropane	7440-66-6	ug/L	4/4/2016			<1			
1,2-Dichloropropane	7440-66-6	ug/L	10/17/2016		<1				
1,2-Dichloropropane	7440-66-6	ug/L	4/17/2017					<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
1,2-Dichloropropane	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	12/20/2023						<1
1,2-Dichloropropane	7440-66-6	ug/L	3/20/2024						<1
1,2-Dichloropropane	7440-66-6	ug/L	4/29/2024					<1	<1
1,2-Dichloropropane	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
1,3,5-Trinitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
1,3-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
1,3-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
1,3-Dinitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
1,4-Dichlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	7/7/2009		<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	9/2/2009		<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
1,4-Dichlorobenzene	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	7/8/2011		<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	8/11/2011		<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	10/13/2011		<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	8/1/2012		<1	<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2012			<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	12/13/2012				<25		
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2013	<1			<1		
1,4-Dichlorobenzene	7440-66-6	ug/L	10/5/2015			<10			
1,4-Dichlorobenzene	7440-66-6	ug/L	4/4/2016			<1			
1,4-Dichlorobenzene	7440-66-6	ug/L	10/17/2016		<1				
1,4-Dichlorobenzene	7440-66-6	ug/L	4/17/2017					<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
1,4-Dichlorobenzene	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	12/20/2023						<1
1,4-Dichlorobenzene	7440-66-6	ug/L	3/20/2024						<1
1,4-Dichlorobenzene	7440-66-6	ug/L	4/29/2024			<1	<1	<1	<1
1,4-Dichlorobenzene	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
1,4-Phenylenediamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
1-Naphthylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2,2-Dichloropropane	7440-66-6	ug/L	5/10/2010	<4	<4	<4			
2,3,4,6-Tetrachlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			

Table 9B
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
2,4,5-T [2C]	7440-66-6	ug/L	5/10/2010	<0.51	<0.5	<0.5			
2,4,5-TP [Silvex]	7440-66-6	ug/L	5/10/2010	<0.51	<0.5	<0.5			
2,4,5-Trichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2,4,6-Trichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2,4-D [2C]	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
2,4-Dichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2,4-Dimethylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2,4-Dinitrophenol	7440-66-6	ug/L	5/10/2010	<20	<20	<20			
2,4-Dinitrotoluene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2,6-Dichlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2,6-Dinitrotoluene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2-Acetylaminofluorene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2-Butanone	7440-66-6	ug/L	4/14/2009	<10	<10	<10			
2-Butanone	7440-66-6	ug/L	7/7/2009		<10	<10			
2-Butanone	7440-66-6	ug/L	9/2/2009		<10	<10			
2-Butanone	7440-66-6	ug/L	10/25/2009	<10	<10	<10			
2-Butanone	7440-66-6	ug/L	3/3/2010	<10	<10	<10			
2-Butanone	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2-Butanone	7440-66-6	ug/L	7/8/2011		<10	<10			
2-Butanone	7440-66-6	ug/L	8/11/2011		<10	<10			
2-Butanone	7440-66-6	ug/L	10/13/2011		<10	<10			
2-Butanone	7440-66-6	ug/L	4/11/2012		<10	<10	<10	<10	
2-Butanone	7440-66-6	ug/L	8/1/2012		<10	10.4			
2-Butanone	7440-66-6	ug/L	10/11/2012			<10			
2-Butanone	7440-66-6	ug/L	12/13/2012				<250		
2-Butanone	7440-66-6	ug/L	3/30/2013	<10			<10		
2-Butanone	7440-66-6	ug/L	10/5/2015			<100			
2-Butanone	7440-66-6	ug/L	4/4/2016			<10			
2-Butanone	7440-66-6	ug/L	10/17/2016		<10				
2-Butanone	7440-66-6	ug/L	4/17/2017					<10	
2-Butanone	7440-66-6	ug/L	10/11/2017		<10	<10	<10	<10	
2-Butanone	7440-66-6	ug/L	3/15/2018		<10	<10	<10	<10	
2-Butanone	7440-66-6	ug/L	4/26/2018		<10	<10	<10	<10	
2-Butanone	7440-66-6	ug/L	10/16/2018		<10	<10	<10	<10	
2-Butanone	7440-66-6	ug/L	4/16/2019		<10	<10	<10	<10	
2-Butanone	7440-66-6	ug/L	10/1/2019		<10	<10	<10	<10	
2-Butanone	7440-66-6	ug/L	3/30/2020		<10	<10	<10	<10	
2-Butanone	7440-66-6	ug/L	10/7/2020		<10	<10	<10	<10	
2-Butanone	7440-66-6	ug/L	4/13/2021		<5	<5	<5	<5	
2-Butanone	7440-66-6	ug/L	10/20/2021		<5	<5	<5	<5	
2-Butanone	7440-66-6	ug/L	5/2/2022		<10	<10	<10	<10	
2-Butanone	7440-66-6	ug/L	5/1/2023		<10	<10	<10	<10	
2-Butanone	7440-66-6	ug/L	8/1/2023			<10	<10	<10	<10
2-Butanone	7440-66-6	ug/L	10/16/2023		<10	<10	<10	<10	<10
2-Butanone	7440-66-6	ug/L	12/20/2023						<10
2-Butanone	7440-66-6	ug/L	3/20/2024						<10
2-Butanone	7440-66-6	ug/L	4/29/2024		32.7	<10	<10	<10	8.99J
2-Butanone (MEK)	7440-66-6	ug/L	10/11/2024		<10.0	<10.0	<10.0	<10.0	<10.0
2-Chloronaphthalene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2-Chlorophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2-Hexanone	7440-66-6	ug/L	4/14/2009	<10	<10	<10			
2-Hexanone	7440-66-6	ug/L	7/7/2009		<10	<10			
2-Hexanone	7440-66-6	ug/L	9/2/2009		<10	<10			
2-Hexanone	7440-66-6	ug/L	10/25/2009	<10	<10	<10			
2-Hexanone	7440-66-6	ug/L	3/3/2010	<10	<10	<10			
2-Hexanone	7440-66-6	ug/L	5/10/2010	<20	<20	<20			
2-Hexanone	7440-66-6	ug/L	7/8/2011		<10	<10			
2-Hexanone	7440-66-6	ug/L	8/11/2011		<10	<10			
2-Hexanone	7440-66-6	ug/L	10/13/2011		<10	<10			
2-Hexanone	7440-66-6	ug/L	4/11/2012		<10	<10	<10	<10	
2-Hexanone	7440-66-6	ug/L	8/1/2012		<10	<10			
2-Hexanone	7440-66-6	ug/L	10/11/2012			<10			
2-Hexanone	7440-66-6	ug/L	12/13/2012				<250		
2-Hexanone	7440-66-6	ug/L	3/30/2013	<10			<10		
2-Hexanone	7440-66-6	ug/L	10/5/2015			<100			
2-Hexanone	7440-66-6	ug/L	4/4/2016			<10			
2-Hexanone	7440-66-6	ug/L	10/17/2016		<10				
2-Hexanone	7440-66-6	ug/L	4/17/2017					<10	
2-Hexanone	7440-66-6	ug/L	10/11/2017		<10	<10	<10	<10	
2-Hexanone	7440-66-6	ug/L	3/15/2018		<10	<10	<10	<10	
2-Hexanone	7440-66-6	ug/L	4/26/2018		<10	<10	<10	<10	
2-Hexanone	7440-66-6	ug/L	10/16/2018		<10	<10	<10	<10	
2-Hexanone	7440-66-6	ug/L	4/16/2019		<10	<10	<10	<10	
2-Hexanone	7440-66-6	ug/L	10/1/2019		<10	<10	<10	<10	
2-Hexanone	7440-66-6	ug/L	3/30/2020		<10	<10	<10	<10	
2-Hexanone	7440-66-6	ug/L	10/7/2020		<10	<10	<10	<10	
2-Hexanone	7440-66-6	ug/L	4/13/2021		<5	<5	<5	<5	
2-Hexanone	7440-66-6	ug/L	10/20/2021		<5	<5	<5	<5	
2-Hexanone	7440-66-6	ug/L	5/2/2022		<5	<5	<5	<5	
2-Hexanone	7440-66-6	ug/L	5/1/2023		<10	<10	<10	<10	

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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
2-Hexanone	7440-66-6	ug/L	8/1/2023			<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/16/2023		<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	12/20/2023						<10
2-Hexanone	7440-66-6	ug/L	3/20/2024						<10
2-Hexanone	7440-66-6	ug/L	4/29/2024		<10	<10	<10	<10	<10
2-Hexanone	7440-66-6	ug/L	10/11/2024		<10.0	<10.0	<10.0	<10.0	<10.0
2-Methylnaphthalene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2-Methylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2-Naphthylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
2-Nitrophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
3,3-Dichlorobenzidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
3,3-Dimethylbenzidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
3-Methylcholanthrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
3-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
4,4'-DDD	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
4,4'-DDE	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
4,4'-DDT	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
4,6-Dinitro-2-methylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
4-Aminobiphenyl	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
4-Bromophenyl phenyl ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
4-Chloro-3-methylphenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
4-Chlorophenyl phenyl ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	4/14/2009	<10	<10	<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	7/7/2009		<10	<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	9/2/2009		<10	<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	10/25/2009	<10	<10	<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	3/3/2010	<10	<10	<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	7/8/2011		<10	<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	8/11/2011		<10	<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	10/13/2011		<10	<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	4/11/2012		<10	<10	<10	<10	
4-Methyl-2-Pentanone	7440-66-6	ug/L	8/1/2012		<10	71.5			
4-Methyl-2-Pentanone	7440-66-6	ug/L	10/11/2012			<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	12/13/2012				<250		
4-Methyl-2-Pentanone	7440-66-6	ug/L	3/30/2013	<10			22.7		
4-Methyl-2-Pentanone	7440-66-6	ug/L	10/5/2015			<100			
4-Methyl-2-Pentanone	7440-66-6	ug/L	4/4/2016			<10			
4-Methyl-2-Pentanone	7440-66-6	ug/L	10/17/2016		<10				
4-Methyl-2-Pentanone	7440-66-6	ug/L	4/17/2017					<10	
4-Methyl-2-Pentanone	7440-66-6	ug/L	10/11/2017		<10	1.09J	<10	<10	
4-Methyl-2-Pentanone	7440-66-6	ug/L	3/15/2018		<10	<10	<10	<10	
4-Methyl-2-Pentanone	7440-66-6	ug/L	4/26/2018		<10	<10	<10	<10	
4-Methyl-2-Pentanone	7440-66-6	ug/L	10/16/2018		<10	<10	<10	<10	
4-Methyl-2-Pentanone	7440-66-6	ug/L	4/16/2019		<10	<10	<10	<10	
4-Methyl-2-Pentanone	7440-66-6	ug/L	10/1/2019		<10	<10	<10	<10	
4-Methyl-2-Pentanone	7440-66-6	ug/L	3/30/2020		<10	<10	<10	<10	
4-Methyl-2-Pentanone	7440-66-6	ug/L	10/7/2020		<10	<10	<10	<10	
4-Methyl-2-Pentanone	7440-66-6	ug/L	4/13/2021		<5	<5	<5	<5	
4-Methyl-2-Pentanone	7440-66-6	ug/L	10/20/2021		<5	<5	<5	<5	
4-Methyl-2-Pentanone	7440-66-6	ug/L	5/2/2022		1.5J	<5	1.4J	1.1J	
4-Methyl-2-Pentanone	7440-66-6	ug/L	5/1/2023		<10	<10	<10	<10	
4-Methyl-2-Pentanone	7440-66-6	ug/L	8/1/2023			<10	<10	<10	<10
4-Methyl-2-Pentanone	7440-66-6	ug/L	10/16/2023		<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	7440-66-6	ug/L	12/20/2023						<10
4-Methyl-2-Pentanone	7440-66-6	ug/L	3/20/2024						<10
4-Methyl-2-Pentanone	7440-66-6	ug/L	4/29/2024		3.9J	<10	<10	<10	<10
4-Methyl-2-pentanone (MIBK)	7440-66-6	ug/L	10/11/2024		<10.0	<10.0	<10.0	<10.0	<10.0
4-Nitroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
4-Nitrophenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
5-Nitro-o-toluidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
7,12-Dimethylbenz[a]anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Acenaphthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Acenaphthylene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Acetone	7440-66-6	ug/L	4/14/2009	<10	<10	<10			
Acetone	7440-66-6	ug/L	7/7/2009		<10	<10			
Acetone	7440-66-6	ug/L	9/2/2009		<10	<10			
Acetone	7440-66-6	ug/L	10/25/2009	<10	<10	<10			
Acetone	7440-66-6	ug/L	3/3/2010	<10	86.2	23.7			
Acetone	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Acetone	7440-66-6	ug/L	7/8/2011		<10	<10			
Acetone	7440-66-6	ug/L	8/11/2011		<10	<10			
Acetone	7440-66-6	ug/L	10/13/2011		<10	<10			
Acetone	7440-66-6	ug/L	4/11/2012		<10	<10	<10	<10	
Acetone	7440-66-6	ug/L	8/1/2012		<10	45			
Acetone	7440-66-6	ug/L	10/11/2012			<10			
Acetone	7440-66-6	ug/L	12/13/2012				<250		
Acetone	7440-66-6	ug/L	3/30/2013	<10			<10		
Acetone	7440-66-6	ug/L	10/5/2015			<100			

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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Acetone	7440-66-6	ug/L	4/4/2016			<10			
Acetone	7440-66-6	ug/L	10/17/2016		<10				
Acetone	7440-66-6	ug/L	4/17/2017					1.97J	
Acetone	7440-66-6	ug/L	10/11/2017		2.15J	<10	2.02J	<10	
Acetone	7440-66-6	ug/L	3/15/2018		2.12J	6.11J	4.62J	4.9J	
Acetone	7440-66-6	ug/L	4/26/2018		2.4J	10.3	2.94J	<10	
Acetone	7440-66-6	ug/L	10/16/2018		3.63J	3.6J	<10	<10	
Acetone	7440-66-6	ug/L	4/16/2019		3.21J	<10	<10	<10	
Acetone	7440-66-6	ug/L	10/1/2019		<10	<10	<10	<10	
Acetone	7440-66-6	ug/L	3/30/2020		<10	<10	<10	<10	
Acetone	7440-66-6	ug/L	10/7/2020		<10	<10	<10	<10	
Acetone	7440-66-6	ug/L	4/13/2021		<10	<10	<10	<10	
Acetone	7440-66-6	ug/L	10/20/2021		<10	<10	<10	<10	
Acetone	7440-66-6	ug/L	5/2/2022		<10	<10	<10	<10	
Acetone	7440-66-6	ug/L	5/1/2023		<10	<10	9.3J	<10	
Acetone	7440-66-6	ug/L	8/1/2023			<10	3.28J	<10	<10
Acetone	7440-66-6	ug/L	10/16/2023		<10	<10	<10	<10	<10
Acetone	7440-66-6	ug/L	12/20/2023						<10
Acetone	7440-66-6	ug/L	3/20/2024						<10
Acetone	7440-66-6	ug/L	4/29/2024		43.7	<10	3.51J	<10	13.6
Acetone	7440-66-6	ug/L	6/17/2024						<10
Acetone	7440-66-6	ug/L	10/11/2024		<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile	7440-66-6	mg/L	5/10/2010	<10	<10	<10			
Acetophenone	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Acrolein	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Acrylonitrile	7440-66-6	ug/L	4/14/2009	<10	<10	<10			
Acrylonitrile	7440-66-6	ug/L	7/7/2009		<10	<10			
Acrylonitrile	7440-66-6	ug/L	9/2/2009		<10	<10			
Acrylonitrile	7440-66-6	ug/L	10/25/2009	<10	<10	<10			
Acrylonitrile	7440-66-6	ug/L	3/3/2010	<10	<10	<10			
Acrylonitrile	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Acrylonitrile	7440-66-6	ug/L	7/8/2011		<10	<10			
Acrylonitrile	7440-66-6	ug/L	8/11/2011		<10	<10			
Acrylonitrile	7440-66-6	ug/L	10/13/2011		<10	<10			
Acrylonitrile	7440-66-6	ug/L	4/11/2012		<10	<10	<10	<10	
Acrylonitrile	7440-66-6	ug/L	8/1/2012		<10	<10			
Acrylonitrile	7440-66-6	ug/L	10/11/2012			<10			
Acrylonitrile	7440-66-6	ug/L	12/13/2012				<250		
Acrylonitrile	7440-66-6	ug/L	3/30/2013	<10			<10		
Acrylonitrile	7440-66-6	ug/L	10/5/2015			<100			
Acrylonitrile	7440-66-6	ug/L	4/4/2016			<10			
Acrylonitrile	7440-66-6	ug/L	10/17/2016		<10				
Acrylonitrile	7440-66-6	ug/L	4/17/2017					<5	
Acrylonitrile	7440-66-6	ug/L	10/11/2017		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	3/15/2018		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	4/26/2018		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	10/16/2018		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	4/16/2019		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	10/1/2019		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	3/30/2020		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	10/7/2020		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	4/13/2021		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	10/20/2021		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	5/2/2022		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	5/1/2023		<5	<5	<5	<5	
Acrylonitrile	7440-66-6	ug/L	8/1/2023			<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/16/2023		<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	12/20/2023						<5
Acrylonitrile	7440-66-6	ug/L	3/20/2024						<5
Acrylonitrile	7440-66-6	ug/L	4/29/2024		<5	<5	<5	<5	<5
Acrylonitrile	7440-66-6	ug/L	10/11/2024		<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Allyl Chloride	7440-66-6	ug/L	5/10/2010	<2	<2	<2			
Alpha-BHC	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Alpha-Chlordane	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Antimony	7440-66-6	mg/L	4/14/2009	<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	7/7/2009		<0.006	<0.006			
Antimony	7440-66-6	mg/L	9/2/2009		<0.006	<0.006			
Antimony	7440-66-6	mg/L	10/25/2009	<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	3/3/2010	<0.006	<0.006	<0.006			
Antimony	7440-66-6	mg/L	5/10/2010	<0.002	<0.002	<0.002			
Antimony	7440-66-6	mg/L	7/8/2011		<0.006	<0.006			
Antimony	7440-66-6	mg/L	8/11/2011		<0.006	<0.006			
Antimony	7440-66-6	mg/L	10/13/2011		<0.006	<0.006			
Antimony	7440-66-6	mg/L	4/11/2012		<0.006	<0.006	<0.006	<0.006	
Antimony	7440-66-6	mg/L	8/1/2012		<0.006	<0.012			
Antimony	7440-66-6	mg/L	10/11/2012			<0.018			
Antimony	7440-66-6	mg/L	12/13/2012				<0.006		
Antimony	7440-66-6	mg/L	3/30/2013	<0.006			<0.006		

Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Antimony	7440-66-6	mg/L	10/5/2015			<0.001			
Antimony	7440-66-6	mg/L	4/4/2016			<0.001			
Antimony	7440-66-6	mg/L	10/17/2016		<0.001				
Antimony	7440-66-6	mg/L	4/17/2017					<0.001	
Antimony	7440-66-6	mg/L	10/11/2017		<0.001	0.000403J	0.000233J	0.000267J	
Antimony	7440-66-6	mg/L	3/15/2018		0.000239J	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	4/26/2018		<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	10/16/2018		<0.003	<0.003	<0.003	<0.003	
Antimony	7440-66-6	mg/L	4/16/2019		<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	10/1/2019		<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	3/30/2020		<0.001	<0.001	<0.001	<0.001	
Antimony	7440-66-6	mg/L	10/7/2020		<0.001	<0.001	<0.02	<0.001	
Antimony	7440-66-6	mg/L	4/13/2021		<0.002	<0.002	<0.002	<0.002	
Antimony	7440-66-6	mg/L	10/20/2021		<0.002	<0.002	<0.002	<0.002	
Antimony	7440-66-6	mg/L	5/2/2022		<0.002	<0.002	<0.002	<0.002	
Antimony	7440-66-6	mg/L	5/1/2023		<0.002	<0.002	<0.002	<0.002	
Antimony	7440-66-6	mg/L	10/16/2023		<0.002	<0.002	<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	12/20/2023						<0.002
Antimony	7440-66-6	mg/L	3/20/2024						<0.002
Antimony	7440-66-6	mg/L	4/29/2024		<0.002	<0.002	<0.002	<0.002	<0.002
Antimony	7440-66-6	mg/L	10/11/2024		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Arsenic	7440-66-6	mg/L	4/14/2009	<0.001	0.0076	0.0016			
Arsenic	7440-66-6	mg/L	7/7/2009		0.0058	<0.001			
Arsenic	7440-66-6	mg/L	9/2/2009		0.0076; 0.0081	0.0019			
Arsenic	7440-66-6	mg/L	10/25/2009	<0.001	0.0062	0.0017			
Arsenic	7440-66-6	mg/L	3/3/2010	<0.001	0.002	0.0014			
Arsenic	7440-66-6	mg/L	5/10/2010	0.0026	0.007	0.0044			
Arsenic	7440-66-6	mg/L	7/8/2010	0.0015	0.011; 0.0099	0.0025			
Arsenic	7440-66-6	mg/L	7/8/2011		0.0022; 0.0019	0.0031			
Arsenic	7440-66-6	mg/L	8/11/2011		<0.001	0.0028			
Arsenic	7440-66-6	mg/L	10/13/2011		<0.001	0.00649			
Arsenic	7440-66-6	mg/L	4/11/2012		<0.001	0.00685	<0.001	<0.001	
Arsenic	7440-66-6	mg/L	8/1/2012		0.0102	0.0292			
Arsenic	7440-66-6	mg/L	10/11/2012			0.0122			
Arsenic	7440-66-6	mg/L	12/13/2012				0.0122		
Arsenic	7440-66-6	mg/L	3/30/2013	<0.001			0.00869		
Arsenic	7440-66-6	mg/L	10/5/2015			0.0768			
Arsenic	7440-66-6	mg/L	4/4/2016			<0.002			
Arsenic	7440-66-6	mg/L	10/17/2016		0.00312				
Arsenic	7440-66-6	mg/L	4/17/2017					0.00267	
Arsenic	7440-66-6	mg/L	10/11/2017		0.00619	0.0114	0.00241	0.00184J	
Arsenic	7440-66-6	mg/L	3/15/2018		0.00136J	0.00933	0.0135	0.00107J	
Arsenic	7440-66-6	mg/L	4/26/2018		0.000853J	0.00982	0.00772	<0.002	
Arsenic	7440-66-6	mg/L	10/16/2018		0.00302	0.0105	0.00939	0.00266	
Arsenic	7440-66-6	mg/L	4/16/2019		0.00107J	0.00363	0.0208	<0.002	
Arsenic	7440-66-6	mg/L	10/1/2019		<0.002	0.00462	0.0167	<0.002	
Arsenic	7440-66-6	mg/L	3/30/2020		0.00133J	0.0092	0.0128	<0.002	
Arsenic	7440-66-6	mg/L	10/7/2020		0.00351	0.0515	13.9	0.00168J	
Arsenic	7440-66-6	mg/L	4/13/2021		<0.004	0.0095	0.0097	<0.004	
Arsenic	7440-66-6	mg/L	10/20/2021		<0.004	<0.004	0.0164	<0.004	
Arsenic	7440-66-6	mg/L	5/2/2022		0.001J	0.0087	0.0205	0.0011J	
Arsenic	7440-66-6	mg/L	5/1/2023		<0.002	0.00123J	0.000614J	0.000658J	
Arsenic	7440-66-6	mg/L	10/16/2023		0.00109J	0.00563	0.00387	0.00168J	0.000702J
Arsenic	7440-66-6	mg/L	12/20/2023						0.00149J
Arsenic	7440-66-6	mg/L	3/20/2024						0.000918J
Arsenic	7440-66-6	mg/L	4/29/2024		0.00404	0.00396	0.015	<0.002	0.00362
Arsenic	7440-66-6	mg/L	10/11/2024		0.00668	0.0126	0.0349	0.00208	<0.00200
Barium	7440-66-6	mg/L	4/14/2009	0.137	0.31	0.16			
Barium	7440-66-6	mg/L	7/7/2009		0.244; 0.249	0.157			
Barium	7440-66-6	mg/L	9/2/2009		0.294	0.172			
Barium	7440-66-6	mg/L	10/25/2009	0.133	0.247	0.159			
Barium	7440-66-6	mg/L	3/3/2010	0.126	0.1	0.114			
Barium	7440-66-6	mg/L	5/10/2010	0.171	0.234	0.159			
Barium	7440-66-6	mg/L	7/8/2010	0.177	0.244	0.153			
Barium	7440-66-6	mg/L	7/8/2011		0.285	0.129			
Barium	7440-66-6	mg/L	8/11/2011		0.309	0.147			
Barium	7440-66-6	mg/L	10/13/2011		0.277	0.133			
Barium	7440-66-6	mg/L	4/11/2012		0.303	0.168	0.0859	0.0421	
Barium	7440-66-6	mg/L	8/1/2012		0.662	2.65			
Barium	7440-66-6	mg/L	10/11/2012			0.148			
Barium	7440-66-6	mg/L	12/13/2012				0.472		
Barium	7440-66-6	mg/L	3/30/2013	0.103			0.226		
Barium	7440-66-6	mg/L	10/5/2015			1.22			
Barium	7440-66-6	mg/L	4/4/2016			0.162			
Barium	7440-66-6	mg/L	10/17/2016		0.212				
Barium	7440-66-6	mg/L	4/17/2017					0.194	
Barium	7440-66-6	mg/L	10/11/2017		0.23	0.198	0.0558	0.0391	
Barium	7440-66-6	mg/L	3/15/2018		0.147	0.131	0.0617	0.0229	
Barium	7440-66-6	mg/L	4/26/2018		0.193	0.155	0.0667	0.0234	
Barium	7440-66-6	mg/L	10/16/2018		0.271	0.204	0.117	0.0669	

Table 9B
Analytical Data Summary - Groundwater Underdrains
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Barium	7440-66-6	mg/L	4/16/2019		0.235	0.177	0.113	0.0286	
Barium	7440-66-6	mg/L	10/1/2019		0.151	0.127	0.0999	0.0252	
Barium	7440-66-6	mg/L	3/30/2020		0.276	0.166	0.0959	0.0286	
Barium	7440-66-6	mg/L	10/7/2020		1.67	0.24	35.3	0.0273	
Barium	7440-66-6	mg/L	4/13/2021		0.204	0.154	0.15	0.0296	
Barium	7440-66-6	mg/L	10/20/2021		0.0584	0.0286	0.163	0.0232	
Barium	7440-66-6	mg/L	5/2/2022		0.15	0.111	0.17	0.0208	
Barium	7440-66-6	mg/L	5/1/2023		0.27	0.173	0.0374	0.0379	
Barium	7440-66-6	mg/L	10/16/2023		0.189	0.145	0.261	0.0942	0.0868
Barium	7440-66-6	mg/L	12/20/2023						0.0901
Barium	7440-66-6	mg/L	3/20/2024						0.0966
Barium	7440-66-6	mg/L	4/29/2024		0.195	0.163	0.344	0.0821	0.163
Barium	7440-66-6	mg/L	10/11/2024		0.48	0.205	0.544	0.132	0.113
Benzene	7440-66-6	ug/L	4/14/2009	<0.5	<0.5	<0.5			
Benzene	7440-66-6	ug/L	7/7/2009		<0.5	<0.5			
Benzene	7440-66-6	ug/L	9/2/2009		0.64	0.71			
Benzene	7440-66-6	ug/L	10/25/2009	<0.5	<0.5	<0.5			
Benzene	7440-66-6	ug/L	3/3/2010	<0.5	<0.5	<0.5			
Benzene	7440-66-6	ug/L	5/10/2010	<0.5	<0.5	<0.5			
Benzene	7440-66-6	ug/L	7/8/2011		<0.5	<0.5			
Benzene	7440-66-6	ug/L	8/11/2011		<0.5	<0.5			
Benzene	7440-66-6	ug/L	10/13/2011		<0.5	<0.5			
Benzene	7440-66-6	ug/L	4/11/2012		<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	8/1/2012		<0.5	1.94			
Benzene	7440-66-6	ug/L	10/11/2012			0.6			
Benzene	7440-66-6	ug/L	12/13/2012				53.5		
Benzene	7440-66-6	ug/L	3/30/2013	<0.5			14.1		
Benzene	7440-66-6	ug/L	10/5/2015			1.53J			
Benzene	7440-66-6	ug/L	4/4/2016			<0.5			
Benzene	7440-66-6	ug/L	10/17/2016		<0.5				
Benzene	7440-66-6	ug/L	4/17/2017					0.143J	
Benzene	7440-66-6	ug/L	10/11/2017		<0.5	0.138J	0.209J	<0.5	
Benzene	7440-66-6	ug/L	3/15/2018		<0.5	0.141J	0.306J	<0.5	
Benzene	7440-66-6	ug/L	4/26/2018		<0.5	<0.5	0.191J	<0.5	
Benzene	7440-66-6	ug/L	10/16/2018		<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	4/16/2019		<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	10/1/2019		<0.5	<0.5	<0.5	<0.5	
Benzene	7440-66-6	ug/L	3/30/2020		<0.5	0.245J	<0.5	<0.5	
Benzene	7440-66-6	ug/L	10/7/2020		<0.5	1.18	<0.5	<0.5	
Benzene	7440-66-6	ug/L	4/13/2021		<1	2.4	<1	<1	
Benzene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Benzene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Benzene	7440-66-6	ug/L	5/1/2023		<0.5	0.785	<0.5	<0.5	
Benzene	7440-66-6	ug/L	8/1/2023			<0.5	0.564	<0.5	<0.5
Benzene	7440-66-6	ug/L	10/16/2023		<0.5	<0.5	0.701	<0.5	<0.5
Benzene	7440-66-6	ug/L	12/20/2023						<0.5
Benzene	7440-66-6	ug/L	3/20/2024						<0.5
Benzene	7440-66-6	ug/L	4/29/2024		0.231J	<0.5	0.297J	<0.5	<0.5
Benzene	7440-66-6	ug/L	10/11/2024		<0.500	<0.500	<0.500	<0.500	<0.500
Benzo [k] fluoranthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Benzo[a]anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Benzo[a]pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Benzo[b]fluoranthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Benzo[g,h,i]perylene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Benzyl alcohol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Beryllium	7440-66-6	mg/L	4/14/2009	<0.001	<0.001	<0.001			
Beryllium	7440-66-6	mg/L	7/7/2009		<0.001	<0.001			
Beryllium	7440-66-6	mg/L	9/2/2009		<0.001	<0.001			
Beryllium	7440-66-6	mg/L	10/25/2009	<0.001	<0.001	<0.001			
Beryllium	7440-66-6	mg/L	3/3/2010	<0.001	<0.001	<0.001			
Beryllium	7440-66-6	mg/L	5/10/2010	<0.0004	<0.0004	<0.0004			
Beryllium	7440-66-6	mg/L	7/8/2011		<0.001	<0.001			
Beryllium	7440-66-6	mg/L	8/11/2011		<0.001	<0.001			
Beryllium	7440-66-6	mg/L	10/13/2011		<0.001	<0.001			
Beryllium	7440-66-6	mg/L	4/11/2012		<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	8/1/2012		<0.001	<0.001			
Beryllium	7440-66-6	mg/L	10/11/2012			<0.001			
Beryllium	7440-66-6	mg/L	12/13/2012				<0.001		
Beryllium	7440-66-6	mg/L	3/30/2013	<0.001			0.00131		
Beryllium	7440-66-6	mg/L	10/5/2015			0.000552J			
Beryllium	7440-66-6	mg/L	4/4/2016			<0.001			
Beryllium	7440-66-6	mg/L	10/17/2016		<0.001				
Beryllium	7440-66-6	mg/L	4/17/2017					<0.001	
Beryllium	7440-66-6	mg/L	10/11/2017		<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	3/15/2018		<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	4/26/2018		<0.001	<0.001	<0.001	<0.004	
Beryllium	7440-66-6	mg/L	10/16/2018		<0.001	0.000538J	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	4/16/2019		<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	10/1/2019		<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	3/30/2020		<0.001	<0.001	<0.001	<0.001	

Table 9B
Analytical Data Summary - Groundwater Underdrains
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Beryllium	7440-66-6	mg/L	10/7/2020		<0.001	<0.001	0.00806	<0.001	
Beryllium	7440-66-6	mg/L	4/13/2021		<0.004	<0.004	<0.004	<0.004	
Beryllium	7440-66-6	mg/L	10/20/2021		<0.004	<0.004	<0.004	<0.004	
Beryllium	7440-66-6	mg/L	5/2/2022		<0.004	<0.004	<0.004	<0.004	
Beryllium	7440-66-6	mg/L	5/1/2023		<0.001	<0.001	<0.001	<0.001	
Beryllium	7440-66-6	mg/L	10/16/2023		<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	12/20/2023						<0.001
Beryllium	7440-66-6	mg/L	3/20/2024						<0.001
Beryllium	7440-66-6	mg/L	4/29/2024		<0.001	<0.001	<0.001	<0.001	<0.001
Beryllium	7440-66-6	mg/L	10/11/2024		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Beta-BHC	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Bicarbonate	7440-66-6	mg/L	3/15/2018		545	525	648	485	
Bis[2-chloroethoxy]methane	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Bis[2-chloroethyl]ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Bis[2-chloroisopropyl]ether	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Bis[2-ethylhexyl]phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Bromochloromethane	7440-66-6	ug/L	4/14/2009	<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	7/7/2009		<5	<5			
Bromochloromethane	7440-66-6	ug/L	9/2/2009		<5	<5			
Bromochloromethane	7440-66-6	ug/L	10/25/2009	<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	3/3/2010	<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	5/10/2010	<5	<5	<5			
Bromochloromethane	7440-66-6	ug/L	7/8/2011		<5	<5			
Bromochloromethane	7440-66-6	ug/L	8/11/2011		<5	<5			
Bromochloromethane	7440-66-6	ug/L	10/13/2011		<5	<5			
Bromochloromethane	7440-66-6	ug/L	4/11/2012		<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	8/1/2012		<5	<5			
Bromochloromethane	7440-66-6	ug/L	10/11/2012			<5			
Bromochloromethane	7440-66-6	ug/L	12/13/2012				<125		
Bromochloromethane	7440-66-6	ug/L	3/30/2013	<5			<5		
Bromochloromethane	7440-66-6	ug/L	10/5/2015			<50			
Bromochloromethane	7440-66-6	ug/L	4/4/2016			<5			
Bromochloromethane	7440-66-6	ug/L	10/17/2016		<5				
Bromochloromethane	7440-66-6	ug/L	4/17/2017					<5	
Bromochloromethane	7440-66-6	ug/L	10/11/2017		<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	3/15/2018		<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	4/26/2018		<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	10/16/2018		<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	4/16/2019		<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	10/1/2019		<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	3/30/2020		<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	10/7/2020		<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Bromochloromethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Bromochloromethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Bromochloromethane	7440-66-6	ug/L	5/1/2023		<5	<5	<5	<5	
Bromochloromethane	7440-66-6	ug/L	8/1/2023			<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/16/2023		<5	<5	<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	12/20/2023						<5
Bromochloromethane	7440-66-6	ug/L	3/20/2024						<5
Bromochloromethane	7440-66-6	ug/L	4/29/2024				<5	<5	<5
Bromochloromethane	7440-66-6	ug/L	10/11/2024		<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
Bromodichloromethane	7440-66-6	ug/L	7/7/2009		<1	<1			
Bromodichloromethane	7440-66-6	ug/L	9/2/2009		<1	<1			
Bromodichloromethane	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
Bromodichloromethane	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
Bromodichloromethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4			
Bromodichloromethane	7440-66-6	ug/L	7/8/2011		<1	<1			
Bromodichloromethane	7440-66-6	ug/L	8/11/2011		<1	<1			
Bromodichloromethane	7440-66-6	ug/L	10/13/2011		<1	<1			
Bromodichloromethane	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
Bromodichloromethane	7440-66-6	ug/L	8/1/2012		<1	<1			
Bromodichloromethane	7440-66-6	ug/L	10/11/2012			<1			
Bromodichloromethane	7440-66-6	ug/L	12/13/2012				<25		
Bromodichloromethane	7440-66-6	ug/L	3/30/2013	<1			<1		
Bromodichloromethane	7440-66-6	ug/L	10/5/2015			<10			
Bromodichloromethane	7440-66-6	ug/L	4/4/2016			<1			
Bromodichloromethane	7440-66-6	ug/L	10/17/2016		<1				
Bromodichloromethane	7440-66-6	ug/L	4/17/2017					<1	
Bromodichloromethane	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
Bromodichloromethane	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
Bromodichloromethane	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
Bromodichloromethane	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
Bromodichloromethane	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
Bromodichloromethane	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
Bromodichloromethane	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
Bromodichloromethane	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
Bromodichloromethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Bromodichloromethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	

Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Bromodichloromethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Bromodichloromethane	7440-66-6	ug/L	5/1/2023		<1	<1	1.96	2.02	
Bromodichloromethane	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	12/20/2023						<1
Bromodichloromethane	7440-66-6	ug/L	3/20/2024						<1
Bromodichloromethane	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
Bromodichloromethane	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	7440-66-6	ug/L	4/14/2009	<5	<5	<5			
Bromoform	7440-66-6	ug/L	7/7/2009		<5	<5			
Bromoform	7440-66-6	ug/L	9/2/2009		<5	<5			
Bromoform	7440-66-6	ug/L	10/25/2009	<10	<10	<10			
Bromoform	7440-66-6	ug/L	3/3/2010	<5	<5	<5			
Bromoform	7440-66-6	ug/L	5/10/2010	<20	<20	<20			
Bromoform	7440-66-6	ug/L	7/8/2011		<5	<5			
Bromoform	7440-66-6	ug/L	8/11/2011		<5	<5			
Bromoform	7440-66-6	ug/L	10/13/2011		<5	<5			
Bromoform	7440-66-6	ug/L	4/11/2012		<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	8/1/2012		<5	<5			
Bromoform	7440-66-6	ug/L	10/11/2012			<5			
Bromoform	7440-66-6	ug/L	12/13/2012				<125		
Bromoform	7440-66-6	ug/L	3/30/2013	<5			<5		
Bromoform	7440-66-6	ug/L	10/5/2015			<50			
Bromoform	7440-66-6	ug/L	4/4/2016			<5			
Bromoform	7440-66-6	ug/L	10/17/2016		<5				
Bromoform	7440-66-6	ug/L	4/17/2017					<5	
Bromoform	7440-66-6	ug/L	10/11/2017		<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	3/15/2018		<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	4/26/2018		<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	10/16/2018		<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	4/16/2019		<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	10/1/2019		<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	3/30/2020		<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	10/7/2020		<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Bromoform	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Bromoform	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Bromoform	7440-66-6	ug/L	5/1/2023		<5	<5	<5	<5	
Bromoform	7440-66-6	ug/L	8/1/2023			<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/16/2023		<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	12/20/2023						<5
Bromoform	7440-66-6	ug/L	3/20/2024						<5
Bromoform	7440-66-6	ug/L	4/29/2024		<5	<5	<5	<5	<5
Bromoform	7440-66-6	ug/L	10/11/2024		<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	7440-66-6	ug/L	4/14/2009	<4	<4	<4			
Bromomethane	7440-66-6	ug/L	7/7/2009		<4	<4			
Bromomethane	7440-66-6	ug/L	9/2/2009		<4	<4			
Bromomethane	7440-66-6	ug/L	10/25/2009	<4	<4	<4			
Bromomethane	7440-66-6	ug/L	3/3/2010	<4	<4	<4			
Bromomethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4			
Bromomethane	7440-66-6	ug/L	7/8/2011		<4	<4			
Bromomethane	7440-66-6	ug/L	8/11/2011		<4	<4			
Bromomethane	7440-66-6	ug/L	10/13/2011		<20	<20			
Bromomethane	7440-66-6	ug/L	4/11/2012		<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	8/1/2012		<4	<4			
Bromomethane	7440-66-6	ug/L	10/11/2012			<4			
Bromomethane	7440-66-6	ug/L	12/13/2012				<100		
Bromomethane	7440-66-6	ug/L	3/30/2013	<4			<4		
Bromomethane	7440-66-6	ug/L	10/5/2015			<40			
Bromomethane	7440-66-6	ug/L	4/4/2016			<4			
Bromomethane	7440-66-6	ug/L	10/17/2016		<4				
Bromomethane	7440-66-6	ug/L	4/17/2017					<4	
Bromomethane	7440-66-6	ug/L	10/11/2017		<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	3/15/2018		<4	0.331J	0.308J	0.29J	
Bromomethane	7440-66-6	ug/L	4/26/2018		<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	10/16/2018		<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	4/16/2019		<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	10/1/2019		<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	3/30/2020		<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	10/7/2020		<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Bromomethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Bromomethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Bromomethane	7440-66-6	ug/L	5/1/2023		<4	<4	<4	<4	
Bromomethane	7440-66-6	ug/L	8/1/2023			<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/16/2023		<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	12/20/2023						<4
Bromomethane	7440-66-6	ug/L	3/20/2024						<4
Bromomethane	7440-66-6	ug/L	4/29/2024		<4	<4	<4	<4	<4
Bromomethane	7440-66-6	ug/L	10/11/2024		<4.00	<4.00	<4.00	<4.00	<4.00

Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Butyl benzyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Cadmium	7440-66-6	mg/L	4/14/2009	<0.0025	<0.0025	<0.0025			
Cadmium	7440-66-6	mg/L	7/7/2009		<0.0025	<0.0025			
Cadmium	7440-66-6	mg/L	9/2/2009		<0.0025	<0.0025			
Cadmium	7440-66-6	mg/L	10/25/2009	<0.0025	<0.0025	<0.0025			
Cadmium	7440-66-6	mg/L	3/3/2010	<0.0025	<0.0025	<0.0025			
Cadmium	7440-66-6	mg/L	5/10/2010	<0.0004	<0.0004	<0.0004			
Cadmium	7440-66-6	mg/L	7/8/2011		<0.0025	<0.0025			
Cadmium	7440-66-6	mg/L	8/11/2011		<0.0025	<0.0025			
Cadmium	7440-66-6	mg/L	10/13/2011		<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	4/11/2012		<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	8/1/2012		<0.0005	<0.0005			
Cadmium	7440-66-6	mg/L	10/11/2012			<0.0005			
Cadmium	7440-66-6	mg/L	12/13/2012				<0.0005		
Cadmium	7440-66-6	mg/L	3/30/2013	<0.0005			0.00101		
Cadmium	7440-66-6	mg/L	10/5/2015			0.000276J			
Cadmium	7440-66-6	mg/L	4/4/2016			<0.0005			
Cadmium	7440-66-6	mg/L	10/17/2016		0.00005J				
Cadmium	7440-66-6	mg/L	4/17/2017					<0.0005	
Cadmium	7440-66-6	mg/L	10/11/2017		<0.0005	<0.0005	<0.0005	0.00022J	
Cadmium	7440-66-6	mg/L	3/15/2018		<0.0005	<0.0005	<0.0005	0.000106J	
Cadmium	7440-66-6	mg/L	4/26/2018		<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	10/16/2018		<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	4/16/2019		<0.0005	<0.0005	<0.0005	<0.0005	
Cadmium	7440-66-6	mg/L	10/1/2019		<0.0001	<0.0001	<0.0001	<0.0001	
Cadmium	7440-66-6	mg/L	3/30/2020		<0.0001	<0.0001	<0.0001	<0.0001	
Cadmium	7440-66-6	mg/L	10/7/2020		<0.0001	<0.0001	0.00138	<0.0001	
Cadmium	7440-66-6	mg/L	4/13/2021		<0.0008	<0.0008	<0.0008	0.0002J	
Cadmium	7440-66-6	mg/L	10/20/2021		<0.0008	0.0001J	<0.0008	<0.0008	
Cadmium	7440-66-6	mg/L	5/2/2022		<0.0008	<0.0008	<0.0008	<0.0008	
Cadmium	7440-66-6	mg/L	5/1/2023		<0.0002	0.000288	<0.0002	<0.0002	
Cadmium	7440-66-6	mg/L	10/16/2023		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Cadmium	7440-66-6	mg/L	12/20/2023						<0.0002
Cadmium	7440-66-6	mg/L	3/20/2024						<0.0002
Cadmium	7440-66-6	mg/L	4/29/2024		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Cadmium	7440-66-6	mg/L	10/11/2024		0.000134	<0.000200	<0.000200	0.000203	0.0001
Calcium	7440-66-6	mg/L	3/15/2018		195	243	255	381	
Carbon Disulfide	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
Carbon Disulfide	7440-66-6	ug/L	7/7/2009		<1	<1			
Carbon Disulfide	7440-66-6	ug/L	9/2/2009		<1	<1			
Carbon Disulfide	7440-66-6	ug/L	10/25/2009	<5	<5	<5			
Carbon Disulfide	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
Carbon Disulfide	7440-66-6	ug/L	5/10/2010	<4	<4	<4			
Carbon Disulfide	7440-66-6	ug/L	7/8/2011		<1	<1			
Carbon Disulfide	7440-66-6	ug/L	8/11/2011		<1	<1			
Carbon Disulfide	7440-66-6	ug/L	10/13/2011		<1	<1			
Carbon Disulfide	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	8/1/2012		<1	<1			
Carbon Disulfide	7440-66-6	ug/L	10/11/2012			<1			
Carbon Disulfide	7440-66-6	ug/L	12/13/2012				<25		
Carbon Disulfide	7440-66-6	ug/L	3/30/2013	<1			6.23		
Carbon Disulfide	7440-66-6	ug/L	10/5/2015			<10			
Carbon Disulfide	7440-66-6	ug/L	4/4/2016			<1			
Carbon Disulfide	7440-66-6	ug/L	10/17/2016		<1				
Carbon Disulfide	7440-66-6	ug/L	4/17/2017					<1	
Carbon Disulfide	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
Carbon Disulfide	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
Carbon Disulfide	7440-66-6	ug/L	12/20/2023						<1
Carbon Disulfide	7440-66-6	ug/L	3/20/2024						<1
Carbon Disulfide	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
Carbon disulfide	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	7440-66-6	ug/L	4/14/2009	<2	<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	7/7/2009		<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	9/2/2009		<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	3/3/2010	<2	<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	5/10/2010	<4	<4	<4			
Carbon Tetrachloride	7440-66-6	ug/L	7/8/2011		<2	<2			

Table 9B
Analytical Data Summary - Groundwater Underdrains
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Carbon Tetrachloride	7440-66-6	ug/L	8/11/2011		<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	10/13/2011		<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	4/11/2012		<2	<2	<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	8/1/2012		<2	<2			
Carbon Tetrachloride	7440-66-6	ug/L	10/11/2012			<2			
Carbon Tetrachloride	7440-66-6	ug/L	12/13/2012				<50		
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2013	<2			8.39		
Carbon Tetrachloride	7440-66-6	ug/L	10/5/2015			<20			
Carbon Tetrachloride	7440-66-6	ug/L	4/4/2016			<2			
Carbon Tetrachloride	7440-66-6	ug/L	10/17/2016		<2				
Carbon Tetrachloride	7440-66-6	ug/L	4/17/2017					<2	
Carbon Tetrachloride	7440-66-6	ug/L	10/11/2017		<2	<2	<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	3/15/2018		<2	<2	<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	4/26/2018		<2	<2	<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	10/16/2018		<2	<2	<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	4/16/2019		<2	<2	<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	10/1/2019		<2	<2	<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	3/30/2020		<2	<2	<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	10/7/2020		<2	<2	<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Carbon Tetrachloride	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Carbon Tetrachloride	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Carbon Tetrachloride	7440-66-6	ug/L	5/1/2023		<2	<2	<2	<2	
Carbon Tetrachloride	7440-66-6	ug/L	8/1/2023			<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	10/16/2023		<2	<2	<2	<2	<2
Carbon Tetrachloride	7440-66-6	ug/L	12/20/2023						<2
Carbon Tetrachloride	7440-66-6	ug/L	3/20/2024						<2
Carbon Tetrachloride	7440-66-6	ug/L	4/29/2024			<2	<2	<2	<2
Carbon tetrachloride	7440-66-6	ug/L	10/11/2024		<2.00	<2.00	<2.00	<2.00	<2.00
Carbonate	7440-66-6	mg/L	3/15/2018		<5	<5	<5	<5	
Chlordane	7440-66-6	ug/L	5/10/2010	<2	<2	<2			
Chloride	7440-66-6	mg/L	3/15/2018		12.6	22.9	16.7	14.8	
Chlorobenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
Chlorobenzene	7440-66-6	ug/L	7/7/2009		<1	<1			
Chlorobenzene	7440-66-6	ug/L	9/2/2009		<1	<1			
Chlorobenzene	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
Chlorobenzene	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
Chlorobenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
Chlorobenzene	7440-66-6	ug/L	7/8/2011		<1	<1			
Chlorobenzene	7440-66-6	ug/L	8/11/2011		<1	<1			
Chlorobenzene	7440-66-6	ug/L	10/13/2011		<1	<1			
Chlorobenzene	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	8/1/2012		<1	<1			
Chlorobenzene	7440-66-6	ug/L	10/11/2012			<1			
Chlorobenzene	7440-66-6	ug/L	12/13/2012				<25		
Chlorobenzene	7440-66-6	ug/L	3/30/2013	<1			<1		
Chlorobenzene	7440-66-6	ug/L	10/5/2015			<10			
Chlorobenzene	7440-66-6	ug/L	4/4/2016			<1			
Chlorobenzene	7440-66-6	ug/L	10/17/2016		<1				
Chlorobenzene	7440-66-6	ug/L	4/17/2017					<1	
Chlorobenzene	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
Chlorobenzene	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	12/20/2023						<1
Chlorobenzene	7440-66-6	ug/L	3/20/2024						<1
Chlorobenzene	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
Chlorobenzene	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Chlorodibromomethane	7440-66-6	ug/L	4/14/2009	<5	<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	7/7/2009		<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	9/2/2009		<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	10/25/2009	<5	<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	3/3/2010	<5	<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	5/10/2010	<5	<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	7/8/2011		<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	8/11/2011		<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	10/13/2011		<5	<5			
Chlorodibromomethane	7440-66-6	ug/L	4/11/2012		<5	<5	<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	8/1/2012		<5	<5			

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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Chlorodibromomethane	7440-66-6	ug/L	10/11/2012			<5			
Chlorodibromomethane	7440-66-6	ug/L	12/13/2012				<125		
Chlorodibromomethane	7440-66-6	ug/L	3/30/2013	<5			<5		
Chlorodibromomethane	7440-66-6	ug/L	10/5/2015			<50			
Chlorodibromomethane	7440-66-6	ug/L	4/4/2016			<5			
Chlorodibromomethane	7440-66-6	ug/L	10/17/2016		<5				
Chlorodibromomethane	7440-66-6	ug/L	4/17/2017					<5	
Chlorodibromomethane	7440-66-6	ug/L	10/11/2017		<5	<5	<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	3/15/2018		<5	<5	<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	4/26/2018		<5	<5	<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	10/16/2018		<5	<5	<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	4/16/2019		<5	<5	<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	10/1/2019		<5	<5	<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	3/30/2020		<5	<5	<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	10/7/2020		<5	<5	<5	<5	
Chlorodibromomethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Chlorodibromomethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Chlorodibromomethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Chlorodibromomethane	7440-66-6	ug/L	5/1/2023		<5	<5	1.38J	<5	
Chlorodibromomethane	7440-66-6	ug/L	8/1/2023			<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/16/2023		<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	12/20/2023						<5
Chlorodibromomethane	7440-66-6	ug/L	3/20/2024						<5
Chlorodibromomethane	7440-66-6	ug/L	4/29/2024		<5	<5	<5	<5	<5
Chlorodibromomethane	7440-66-6	ug/L	10/11/2024		<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	7440-66-6	ug/L	4/14/2009	<4	<4	<4			
Chloroethane	7440-66-6	ug/L	7/7/2009		<4	<4			
Chloroethane	7440-66-6	ug/L	9/2/2009		<4	<4			
Chloroethane	7440-66-6	ug/L	10/25/2009	<4	<4	<4			
Chloroethane	7440-66-6	ug/L	3/3/2010	<4	<4	<4			
Chloroethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4			
Chloroethane	7440-66-6	ug/L	7/8/2011		<4	<4			
Chloroethane	7440-66-6	ug/L	8/11/2011		<4	<4			
Chloroethane	7440-66-6	ug/L	10/13/2011		<4	<4			
Chloroethane	7440-66-6	ug/L	4/11/2012		<4	<4	<4	<4	
Chloroethane	7440-66-6	ug/L	8/1/2012		<4	<4			
Chloroethane	7440-66-6	ug/L	10/11/2012			<4			
Chloroethane	7440-66-6	ug/L	12/13/2012				<100		
Chloroethane	7440-66-6	ug/L	3/30/2013	<4			<4		
Chloroethane	7440-66-6	ug/L	10/5/2015			<40			
Chloroethane	7440-66-6	ug/L	4/4/2016			<4			
Chloroethane	7440-66-6	ug/L	10/17/2016		<4				
Chloroethane	7440-66-6	ug/L	4/17/2017					<4	
Chloroethane	7440-66-6	ug/L	10/11/2017		<4	<4	<4	<4	
Chloroethane	7440-66-6	ug/L	3/15/2018		<4	<4	<4	<4	
Chloroethane	7440-66-6	ug/L	4/26/2018		<4	<4	<4	<4	
Chloroethane	7440-66-6	ug/L	10/16/2018		<4	<4	<4	<4	
Chloroethane	7440-66-6	ug/L	4/16/2019		<4	<4	<4	<4	
Chloroethane	7440-66-6	ug/L	10/1/2019		<4	<4	<4	<4	
Chloroethane	7440-66-6	ug/L	3/30/2020		<4	<4	<4	<4	
Chloroethane	7440-66-6	ug/L	10/7/2020		<4	<4	<4	<4	
Chloroethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Chloroethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Chloroethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Chloroethane	7440-66-6	ug/L	5/1/2023		<4	<4	<4	<4	
Chloroethane	7440-66-6	ug/L	8/1/2023			<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/16/2023		<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	12/20/2023						<4
Chloroethane	7440-66-6	ug/L	3/20/2024						<4
Chloroethane	7440-66-6	ug/L	4/29/2024		<4	<4	<4	<4	<4
Chloroethane	7440-66-6	ug/L	10/11/2024		<4.00	<4.00	<4.00	<4.00	<4.00
Chloroform	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
Chloroform	7440-66-6	ug/L	7/7/2009		<1	<1			
Chloroform	7440-66-6	ug/L	9/2/2009		<1	<1			
Chloroform	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
Chloroform	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
Chloroform	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
Chloroform	7440-66-6	ug/L	7/8/2011		<1	<1			
Chloroform	7440-66-6	ug/L	8/11/2011		<1	<1			
Chloroform	7440-66-6	ug/L	10/13/2011		<1	<1			
Chloroform	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
Chloroform	7440-66-6	ug/L	8/1/2012		<1	<1			
Chloroform	7440-66-6	ug/L	10/11/2012			<1			
Chloroform	7440-66-6	ug/L	12/13/2012				<25		
Chloroform	7440-66-6	ug/L	3/30/2013	<1			<1		
Chloroform	7440-66-6	ug/L	10/5/2015			6.38J			
Chloroform	7440-66-6	ug/L	4/4/2016			<1			
Chloroform	7440-66-6	ug/L	10/17/2016		<1				
Chloroform	7440-66-6	ug/L	4/17/2017					<1	
Chloroform	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	

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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Chloroform	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
Chloroform	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
Chloroform	7440-66-6	ug/L	10/16/2018		<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	4/16/2019		<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	10/1/2019		<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	3/30/2020		<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	10/7/2020		<3	<3	<3	<3	
Chloroform	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Chloroform	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Chloroform	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Chloroform	7440-66-6	ug/L	5/1/2023		<3	<3	6.75	8.17	
Chloroform	7440-66-6	ug/L	8/1/2023			<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	10/16/2023		<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	12/20/2023						<3
Chloroform	7440-66-6	ug/L	3/20/2024						<3
Chloroform	7440-66-6	ug/L	4/29/2024		<3	<3	<3	<3	<3
Chloroform	7440-66-6	ug/L	10/11/2024		<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	7440-66-6	ug/L	4/14/2009	<3	<3	<3			
Chloromethane	7440-66-6	ug/L	7/7/2009		<3	<3			
Chloromethane	7440-66-6	ug/L	9/2/2009		<3	<3			
Chloromethane	7440-66-6	ug/L	10/25/2009	<3	<3	<3			
Chloromethane	7440-66-6	ug/L	3/3/2010	<3	<3	<3			
Chloromethane	7440-66-6	ug/L	5/10/2010	<3	<3	<3			
Chloromethane	7440-66-6	ug/L	7/8/2011		<3	<3			
Chloromethane	7440-66-6	ug/L	8/11/2011		<3	<3			
Chloromethane	7440-66-6	ug/L	10/13/2011		<3	<3			
Chloromethane	7440-66-6	ug/L	4/11/2012		<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	8/1/2012		<3	<3			
Chloromethane	7440-66-6	ug/L	10/11/2012			<3			
Chloromethane	7440-66-6	ug/L	12/13/2012				<75		
Chloromethane	7440-66-6	ug/L	3/30/2013	<3			<3		
Chloromethane	7440-66-6	ug/L	10/5/2015			<30			
Chloromethane	7440-66-6	ug/L	4/4/2016			<3			
Chloromethane	7440-66-6	ug/L	10/17/2016		<3				
Chloromethane	7440-66-6	ug/L	4/17/2017					<3	
Chloromethane	7440-66-6	ug/L	10/11/2017		<3	0.677J	<3	<3	
Chloromethane	7440-66-6	ug/L	3/15/2018		<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	4/26/2018		<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	10/16/2018		<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	4/16/2019		<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	10/1/2019		<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	3/30/2020		<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	10/7/2020		<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Chloromethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Chloromethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Chloromethane	7440-66-6	ug/L	5/1/2023		<3	<3	<3	<3	
Chloromethane	7440-66-6	ug/L	8/1/2023			<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/16/2023		<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	12/20/2023						<3
Chloromethane	7440-66-6	ug/L	3/20/2024						<3
Chloromethane	7440-66-6	ug/L	4/29/2024		<3	<3	<3	<3	<3
Chloromethane	7440-66-6	ug/L	10/11/2024		<3.00	<3.00	<3.00	<3.00	<3.00
Chloroprene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
Chromium	7440-66-6	mg/L	4/14/2009	<0.1	<0.1	<0.1			
Chromium	7440-66-6	mg/L	7/7/2009		<0.1	<0.1			
Chromium	7440-66-6	mg/L	9/2/2009		<0.1	<0.1			
Chromium	7440-66-6	mg/L	10/25/2009	<0.1	<0.1	<0.1			
Chromium	7440-66-6	mg/L	3/3/2010	<0.1	<0.1	<0.1			
Chromium	7440-66-6	mg/L	5/10/2010	<0.02	<0.02	<0.02			
Chromium	7440-66-6	mg/L	7/8/2011		<0.1	<0.1			
Chromium	7440-66-6	mg/L	8/11/2011		<0.1	<0.1			
Chromium	7440-66-6	mg/L	10/13/2011		<0.02	<0.02			
Chromium	7440-66-6	mg/L	4/11/2012		<0.02	<0.02	<0.02	<0.02	
Chromium	7440-66-6	mg/L	8/1/2012		<0.02	<0.02			
Chromium	7440-66-6	mg/L	10/11/2012			<0.02			
Chromium	7440-66-6	mg/L	12/13/2012				<0.02		
Chromium	7440-66-6	mg/L	3/30/2013	<0.02			<0.02		
Chromium	7440-66-6	mg/L	10/5/2015			<0.005			
Chromium	7440-66-6	mg/L	4/4/2016			<0.005			
Chromium	7440-66-6	mg/L	10/17/2016		<0.005				
Chromium	7440-66-6	mg/L	4/17/2017					<0.005	
Chromium	7440-66-6	mg/L	10/11/2017		<0.005	<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	3/15/2018		<0.005	<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	4/26/2018		0.0012J	<0.005	<0.005	<0.02	
Chromium	7440-66-6	mg/L	10/16/2018		0.0136	0.0162	0.00757	0.0066	
Chromium	7440-66-6	mg/L	4/16/2019		<0.005	<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	10/1/2019		<0.005	<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	3/30/2020		<0.005	<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	10/7/2020		<0.005	<0.005	0.0448	<0.005	

Table 9B
Analytical Data Summary - Groundwater Underdrains
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Chromium	7440-66-6	mg/L	4/13/2021		<0.008	<0.008	<0.008	<0.008	
Chromium	7440-66-6	mg/L	10/20/2021		<0.008	<0.008	<0.008	<0.008	
Chromium	7440-66-6	mg/L	5/2/2022		<0.008	<0.008	<0.008	<0.008	
Chromium	7440-66-6	mg/L	5/1/2023		<0.005	<0.005	<0.005	<0.005	
Chromium	7440-66-6	mg/L	10/16/2023		0.00364J	<0.005	<0.005	0.0055	<0.005
Chromium	7440-66-6	mg/L	12/20/2023						<0.005
Chromium	7440-66-6	mg/L	3/20/2024						<0.005
Chromium	7440-66-6	mg/L	4/29/2024		<0.005	<0.005	<0.005	<0.005	<0.005
Chromium	7440-66-6	mg/L	10/11/2024		0.0126	<0.00500	0.00361	0.00469	<0.00500
Chrysene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	7/7/2009		<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	9/2/2009		<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	7/8/2011		<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	8/11/2011		<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/13/2011		<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	8/1/2012		<1	<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2012			<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	12/13/2012				<25		
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2013	<1			<1		
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/5/2015			<10			
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2016			<1			
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/17/2016		<1				
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/17/2017					<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2017		<1	<1	0.142J	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/15/2018		<1	<1	0.229J	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
cis-1,2-Dichloroethene	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	12/20/2023						<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	3/20/2024						<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/14/2009	<5	<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/7/2009		<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	9/2/2009		<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/25/2009	<5	<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/3/2010	<5	<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/10/2010	<5	<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	7/8/2011		<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	8/11/2011		<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/13/2011		<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/11/2012		<5	<5	<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	8/1/2012		<5	<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2012			<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	12/13/2012				<125		
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2013	<5			<5		
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/5/2015			<50			
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2016			<5			
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/17/2016		<5				
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/17/2017					<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2017		<5	<5	<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/15/2018		<5	<5	<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/26/2018		<5	<5	<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2018		<5	<5	<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/16/2019		<5	<5	<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/1/2019		<5	<5	<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2020		<5	<5	<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2020		<5	<5	<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
cis-1,3-Dichloropropene	7440-66-6	ug/L	5/1/2023		<5	<5	<5	<5	
cis-1,3-Dichloropropene	7440-66-6	ug/L	8/1/2023			<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2023		<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	12/20/2023						<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	3/20/2024						<5

Table 9B
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
cis-1,3-Dichloropropene	7440-66-6	ug/L	4/29/2024		<5	<5	<5	<5	<5
cis-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2024		<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	7440-66-6	mg/L	4/14/2009	<0.02	<0.02	<0.02			
Cobalt	7440-66-6	mg/L	7/7/2009		<0.02	<0.02			
Cobalt	7440-66-6	mg/L	9/2/2009		<0.02	<0.02			
Cobalt	7440-66-6	mg/L	10/25/2009	<0.02	<0.02	<0.02			
Cobalt	7440-66-6	mg/L	3/3/2010	<0.02	<0.02	<0.02			
Cobalt	7440-66-6	mg/L	5/10/2010	0.00326	0.00693	0.00242			
Cobalt	7440-66-6	mg/L	7/8/2010	0.00351	0.00589	0.00159			
Cobalt	7440-66-6	mg/L	7/8/2011		0.0125	0.00419			
Cobalt	7440-66-6	mg/L	8/11/2011		0.00875	0.00489			
Cobalt	7440-66-6	mg/L	10/13/2011		0.00506	0.00351			
Cobalt	7440-66-6	mg/L	4/11/2012		0.00529	0.00451	0.00811	<0.02	
Cobalt	7440-66-6	mg/L	8/1/2012		0.00719	0.0309			
Cobalt	7440-66-6	mg/L	10/11/2012			0.00331			
Cobalt	7440-66-6	mg/L	12/13/2012				0.0394		
Cobalt	7440-66-6	mg/L	3/30/2013	0.00139			0.015		
Cobalt	7440-66-6	mg/L	10/5/2015			0.0528			
Cobalt	7440-66-6	mg/L	4/4/2016			0.00121			
Cobalt	7440-66-6	mg/L	10/17/2016		0.000907				
Cobalt	7440-66-6	mg/L	4/17/2017					0.00146	
Cobalt	7440-66-6	mg/L	10/11/2017		0.00393	0.00467	0.00741	0.00146	
Cobalt	7440-66-6	mg/L	3/15/2018		0.00129	0.00461	0.0032	0.000474J	
Cobalt	7440-66-6	mg/L	4/26/2018		0.000781	0.00424	0.00324	<0.002	
Cobalt	7440-66-6	mg/L	10/16/2018		0.00655	0.0076	0.00835	0.00208	
Cobalt	7440-66-6	mg/L	4/16/2019		0.00243	0.00219	0.00123	0.000931	
Cobalt	7440-66-6	mg/L	10/1/2019		0.00469	0.00121	0.000816	0.000101J	
Cobalt	7440-66-6	mg/L	3/30/2020		0.00457	0.00305	0.000829	0.000123J	
Cobalt	7440-66-6	mg/L	10/7/2020		0.0182	0.00534	0.07	0.000139J	
Cobalt	7440-66-6	mg/L	4/13/2021		0.0015	0.0036	0.0007	0.0006	
Cobalt	7440-66-6	mg/L	10/20/2021		0.0033	0.0003J	0.0006	<0.0004	
Cobalt	7440-66-6	mg/L	5/2/2022		0.0006	0.0017	0.0011	0.0004	
Cobalt	7440-66-6	mg/L	5/1/2023		0.000625	0.00209	0.00069	0.000733	
Cobalt	7440-66-6	mg/L	10/16/2023		0.0012	0.00335	0.0106	0.00237	0.0012
Cobalt	7440-66-6	mg/L	12/20/2023						0.000658
Cobalt	7440-66-6	mg/L	3/20/2024						0.000881
Cobalt	7440-66-6	mg/L	4/29/2024		0.207	0.00239	0.00152	<0.0005	0.0633
Cobalt	7440-66-6	mg/L	10/11/2024		0.0179	0.00192	0.00456	0.00511	0.000769
Copper	7440-66-6	mg/L	4/14/2009	<0.025	<0.025	<0.025			
Copper	7440-66-6	mg/L	7/7/2009		<0.025	<0.025			
Copper	7440-66-6	mg/L	9/2/2009		<0.025	<0.025			
Copper	7440-66-6	mg/L	10/25/2009	<0.025	<0.025	<0.025			
Copper	7440-66-6	mg/L	3/3/2010	<0.025	<0.025	<0.025			
Copper	7440-66-6	mg/L	5/10/2010	<0.02	<0.02	<0.02			
Copper	7440-66-6	mg/L	7/8/2011		<0.025	<0.025			
Copper	7440-66-6	mg/L	8/11/2011		<0.025	<0.025			
Copper	7440-66-6	mg/L	10/13/2011		<0.02	<0.02			
Copper	7440-66-6	mg/L	4/11/2012		<0.02	<0.02	<0.02	<0.02	
Copper	7440-66-6	mg/L	8/1/2012		<0.02	<0.02			
Copper	7440-66-6	mg/L	10/11/2012			<0.02			
Copper	7440-66-6	mg/L	12/13/2012				<0.02		
Copper	7440-66-6	mg/L	3/30/2013	<0.02			<0.02		
Copper	7440-66-6	mg/L	10/5/2015			<0.002			
Copper	7440-66-6	mg/L	4/4/2016			<0.005			
Copper	7440-66-6	mg/L	10/17/2016		<0.005				
Copper	7440-66-6	mg/L	4/17/2017					<0.005	
Copper	7440-66-6	mg/L	10/11/2017		<0.005	<0.005	<0.005	<0.005	
Copper	7440-66-6	mg/L	3/15/2018		<0.005	<0.005	<0.005	<0.005	
Copper	7440-66-6	mg/L	4/26/2018		0.00171J	<0.005	<0.005	<0.02	
Copper	7440-66-6	mg/L	10/16/2018		0.00896	0.0112	0.00505	0.00498	
Copper	7440-66-6	mg/L	4/16/2019		<0.005	<0.005	<0.005	<0.005	
Copper	7440-66-6	mg/L	10/1/2019		<0.005	<0.005	<0.005	<0.005	
Copper	7440-66-6	mg/L	3/30/2020		<0.005	<0.005	<0.005	<0.005	
Copper	7440-66-6	mg/L	10/7/2020		<0.005	<0.005	0.053	<0.005	
Copper	7440-66-6	mg/L	4/13/2021		<0.004	<0.004	<0.004	<0.004	
Copper	7440-66-6	mg/L	10/20/2021		<0.004	<0.004	0.0052	<0.004	
Copper	7440-66-6	mg/L	5/2/2022		<0.004	<0.004	<0.004	<0.004	
Copper	7440-66-6	mg/L	5/1/2023		<0.005	<0.005	<0.005	<0.005	
Copper	7440-66-6	mg/L	10/16/2023		0.00299J	<0.005	<0.005	0.00395J	<0.005
Copper	7440-66-6	mg/L	12/20/2023						<0.005
Copper	7440-66-6	mg/L	3/20/2024						<0.005
Copper	7440-66-6	mg/L	4/29/2024		<0.005	<0.005	<0.005	<0.005	<0.005
Copper	7440-66-6	mg/L	10/11/2024		0.00956	<0.00500	0.0032	0.00458	<0.00500
Cyanide	7440-66-6	mg/L	5/10/2010	<0.01	<0.01	<0.01			
Delta-BHC	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Diallate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Dibenz [a,h] anthracene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Dibenzofuran	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Dibromomethane	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	7440-66-6	ug/L	5/10/2010	<3	<3	<3			

Table 9B
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Dieldrin	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Diethyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Dimethoate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Dimethyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Dimethylaminoazobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Di-n-butyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Di-n-octyl phthalate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Dinoseb	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Diphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Disulfoton	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Endosulfan I	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Endosulfan II	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Endosulfan sulfate	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Endrin	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Endrin aldehyde	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Ethyl Methacrylate	7440-66-6	ug/L	5/10/2010	<20	<20	<20			
Ethyl Methanesulfonate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Ethylbenzene	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
Ethylbenzene	7440-66-6	ug/L	7/7/2009		<1	<1			
Ethylbenzene	7440-66-6	ug/L	9/2/2009		<1	<1			
Ethylbenzene	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
Ethylbenzene	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
Ethylbenzene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
Ethylbenzene	7440-66-6	ug/L	7/8/2011		<1	<1			
Ethylbenzene	7440-66-6	ug/L	8/11/2011		<1	<1			
Ethylbenzene	7440-66-6	ug/L	10/13/2011		<1	<1			
Ethylbenzene	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	8/1/2012		<1	<1			
Ethylbenzene	7440-66-6	ug/L	10/11/2012			<1			
Ethylbenzene	7440-66-6	ug/L	12/13/2012				136		
Ethylbenzene	7440-66-6	ug/L	3/30/2013	<1			34.8		
Ethylbenzene	7440-66-6	ug/L	10/5/2015			15.7			
Ethylbenzene	7440-66-6	ug/L	4/4/2016			<1			
Ethylbenzene	7440-66-6	ug/L	10/17/2016		<1				
Ethylbenzene	7440-66-6	ug/L	4/17/2017					<1	
Ethylbenzene	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
Ethylbenzene	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	12/20/2023						<1
Ethylbenzene	7440-66-6	ug/L	3/20/2024						<1
Ethylbenzene	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
Ethylbenzene	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	7440-66-6	ug/L	5/10/2010	<20	<20	<20			
Fluoranthene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Fluorene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Gamma-BHC [Lindane]	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Gamma-Chlordane	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Heptachlor	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Heptachlor Epoxide	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Hexachlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Hexachlorobutadiene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Hexachlorocyclopentadiene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Hexachloroethane	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Hexachloropropene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Indeno [1,2,3-cd] pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Iodomethane	7440-66-6	ug/L	4/14/2009	<10	<10	<10			
Iodomethane	7440-66-6	ug/L	7/7/2009		<20	<10			
Iodomethane	7440-66-6	ug/L	9/2/2009		<20	<20			
Iodomethane	7440-66-6	ug/L	10/25/2009	<10	<10	<10			
Iodomethane	7440-66-6	ug/L	3/3/2010	<10	<10	<10			
Iodomethane	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Iodomethane	7440-66-6	ug/L	7/8/2011		<10	<10			
Iodomethane	7440-66-6	ug/L	8/11/2011		<10	<10			
Iodomethane	7440-66-6	ug/L	10/13/2011		<20	<20			
Iodomethane	7440-66-6	ug/L	4/11/2012		<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	8/1/2012		<10	<10			
Iodomethane	7440-66-6	ug/L	10/11/2012			<10			
Iodomethane	7440-66-6	ug/L	12/13/2012				<250		
Iodomethane	7440-66-6	ug/L	3/30/2013	<10			<10		

Table 9B
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Iodomethane	7440-66-6	ug/L	10/5/2015			<100			
Iodomethane	7440-66-6	ug/L	4/4/2016			<10			
Iodomethane	7440-66-6	ug/L	10/17/2016		<10				
Iodomethane	7440-66-6	ug/L	4/17/2017					<10	
Iodomethane	7440-66-6	ug/L	10/11/2017		<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	3/15/2018		<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	4/26/2018		<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	10/16/2018		<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	4/16/2019		<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	10/1/2019		<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	3/30/2020		<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	10/7/2020		<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Iodomethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Iodomethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Iodomethane	7440-66-6	ug/L	5/1/2023		<10	<10	<10	<10	
Iodomethane	7440-66-6	ug/L	8/1/2023			<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/16/2023		<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	12/20/2023						<10
Iodomethane	7440-66-6	ug/L	3/20/2024						<10
Iodomethane	7440-66-6	ug/L	4/29/2024		<10	<10	<10	<10	<10
Iodomethane	7440-66-6	ug/L	10/11/2024		<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol	7440-66-6	mg/L	5/10/2010	<10	<10	<10			
Isodrin	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Isophorone	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Isosafrole	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Kepone	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Lead	7440-66-6	mg/L	4/14/2009	<0.005	<0.005	<0.005			
Lead	7440-66-6	mg/L	7/7/2009		<0.005	<0.005			
Lead	7440-66-6	mg/L	9/2/2009		<0.005	<0.005			
Lead	7440-66-6	mg/L	10/25/2009	<0.005	<0.005	<0.005			
Lead	7440-66-6	mg/L	3/3/2010	<0.005	<0.005	<0.005			
Lead	7440-66-6	mg/L	5/10/2010	0.0036	<0.002	<0.002			
Lead	7440-66-6	mg/L	7/8/2010	<0.005					
Lead	7440-66-6	mg/L	7/8/2011		<0.005	<0.005			
Lead	7440-66-6	mg/L	8/11/2011		<0.005	<0.005			
Lead	7440-66-6	mg/L	10/13/2011		<0.004	<0.004			
Lead	7440-66-6	mg/L	4/11/2012		<0.004	<0.004	<0.004	<0.004	
Lead	7440-66-6	mg/L	8/1/2012		<0.004	<0.004			
Lead	7440-66-6	mg/L	10/11/2012			<0.004			
Lead	7440-66-6	mg/L	12/13/2012				<0.004		
Lead	7440-66-6	mg/L	3/30/2013	<0.004			0.0181		
Lead	7440-66-6	mg/L	10/5/2015			0.000398J			
Lead	7440-66-6	mg/L	4/4/2016			<0.0005			
Lead	7440-66-6	mg/L	10/17/2016		<0.0005				
Lead	7440-66-6	mg/L	4/17/2017					<0.0005	
Lead	7440-66-6	mg/L	10/11/2017		0.000698	<0.0005	<0.0005	0.000645	
Lead	7440-66-6	mg/L	3/15/2018		0.00065	<0.0005	<0.0005	0.000411J	
Lead	7440-66-6	mg/L	4/26/2018		0.000529	<0.0005	<0.0005	<0.0005	
Lead	7440-66-6	mg/L	10/16/2018		0.00725	0.00754	0.00354	0.00281	
Lead	7440-66-6	mg/L	4/16/2019		0.000421J	<0.0005	<0.0005	<0.0005	
Lead	7440-66-6	mg/L	10/1/2019		<0.0005	0.000344J	<0.0005	<0.0005	
Lead	7440-66-6	mg/L	3/30/2020		<0.0005	<0.0005	<0.0005	<0.0005	
Lead	7440-66-6	mg/L	10/7/2020		0.000522	0.000575	0.0321	0.000206J	
Lead	7440-66-6	mg/L	4/13/2021		<0.004	<0.004	<0.004	<0.004	
Lead	7440-66-6	mg/L	10/20/2021		<0.004	<0.004	<0.004	<0.004	
Lead	7440-66-6	mg/L	5/2/2022		<0.004	<0.004	<0.004	<0.004	
Lead	7440-66-6	mg/L	5/1/2023		<0.0005	<0.0005	<0.0005	<0.0005	
Lead	7440-66-6	mg/L	10/16/2023		0.00122	<0.0005	<0.0005	0.00174	<0.0005
Lead	7440-66-6	mg/L	12/20/2023						<0.0005
Lead	7440-66-6	mg/L	3/20/2024						<0.0005
Lead	7440-66-6	mg/L	4/29/2024		0.000584	<0.0005	<0.0005	<0.0005	<0.0005
Lead	7440-66-6	mg/L	10/11/2024		0.00597	0.000334	0.00162	0.00269	<0.000500
m/p-Cresol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Magnesium	7440-66-6	mg/L	3/15/2018		76.7	84.6	86.2	119	
Mercury	7440-66-6	mg/L	5/10/2010	<0.0002	<0.0002	<0.0002			
Methacrylonitrile	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
Methapyrillene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Methoxychlor	7440-66-6	ug/L	5/10/2010	<0.032	<0.032	<0.032			
Methyl Methacrylate	7440-66-6	ug/L	5/10/2010	<5	<5	<5			
Methyl Methanesulfonate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Methylene Bromide	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
Methylene Bromide	7440-66-6	ug/L	7/7/2009		<1	<1			
Methylene Bromide	7440-66-6	ug/L	9/2/2009		<1	<1			
Methylene Bromide	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
Methylene Bromide	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
Methylene Bromide	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
Methylene Bromide	7440-66-6	ug/L	7/8/2011		<1	<1			
Methylene Bromide	7440-66-6	ug/L	8/11/2011		<1	<1			
Methylene Bromide	7440-66-6	ug/L	10/13/2011		<1	<1			

Table 9B
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Methylene Bromide	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	8/1/2012		<1	<1			
Methylene Bromide	7440-66-6	ug/L	10/11/2012			<1			
Methylene Bromide	7440-66-6	ug/L	12/13/2012				<25		
Methylene Bromide	7440-66-6	ug/L	3/30/2013	<1			<1		
Methylene Bromide	7440-66-6	ug/L	10/5/2015			<10			
Methylene Bromide	7440-66-6	ug/L	4/4/2016			<1			
Methylene Bromide	7440-66-6	ug/L	10/17/2016		<1				
Methylene Bromide	7440-66-6	ug/L	4/17/2017					<1	
Methylene Bromide	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
Methylene Bromide	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
Methylene Bromide	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
Methylene Bromide	7440-66-6	ug/L	12/20/2023						<1
Methylene Bromide	7440-66-6	ug/L	3/20/2024						<1
Methylene Bromide	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
Methylene Chloride	7440-66-6	ug/L	4/14/2009	<5	<5	<5			
Methylene Chloride	7440-66-6	ug/L	7/7/2009		<5	<5			
Methylene Chloride	7440-66-6	ug/L	9/2/2009		<5	<5			
Methylene Chloride	7440-66-6	ug/L	10/25/2009	<5	<5	<5			
Methylene Chloride	7440-66-6	ug/L	3/3/2010	<5	<5	<5			
Methylene Chloride	7440-66-6	ug/L	5/10/2010	<5	<5	<5			
Methylene Chloride	7440-66-6	ug/L	7/8/2011		<5	<5			
Methylene Chloride	7440-66-6	ug/L	8/11/2011		<5	<5			
Methylene Chloride	7440-66-6	ug/L	10/13/2011		<5	<5			
Methylene Chloride	7440-66-6	ug/L	4/11/2012		<5	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	8/1/2012		<5	<5			
Methylene Chloride	7440-66-6	ug/L	10/11/2012			<5			
Methylene Chloride	7440-66-6	ug/L	12/13/2012				<125		
Methylene Chloride	7440-66-6	ug/L	3/30/2013	<5			<5		
Methylene Chloride	7440-66-6	ug/L	10/5/2015			25.5J			
Methylene Chloride	7440-66-6	ug/L	4/4/2016			<5			
Methylene Chloride	7440-66-6	ug/L	10/17/2016		0.462J				
Methylene Chloride	7440-66-6	ug/L	4/17/2017					<5	
Methylene Chloride	7440-66-6	ug/L	10/11/2017		0.247J	<5	0.241J	0.267J	
Methylene Chloride	7440-66-6	ug/L	3/15/2018		<5	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	4/26/2018		0.327J	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	10/16/2018		<5	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	4/16/2019		<5	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	10/1/2019		<5	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	3/30/2020		<5	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	10/7/2020		<5	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	4/13/2021		<5	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	10/20/2021		<5	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	5/2/2022		<5	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	5/1/2023		<5	<5	<5	<5	
Methylene Chloride	7440-66-6	ug/L	8/1/2023			<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/16/2023		<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	12/20/2023						<5
Methylene Chloride	7440-66-6	ug/L	3/20/2024						<5
Methylene Chloride	7440-66-6	ug/L	4/29/2024		<5	<5	<5	<5	<5
Methylene Chloride	7440-66-6	ug/L	10/11/2024		<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	7440-66-6	ug/L	5/10/2010	<5	<5	<5			
Nickel	7440-66-6	mg/L	4/14/2009	0.01	0.011	<0.01			
Nickel	7440-66-6	mg/L	7/7/2009		0.011	<0.01			
Nickel	7440-66-6	mg/L	9/2/2009		0.014	<0.01			
Nickel	7440-66-6	mg/L	10/25/2009	<0.01	0.012	<0.01			
Nickel	7440-66-6	mg/L	3/3/2010	<0.01	<0.01	<0.01			
Nickel	7440-66-6	mg/L	5/10/2010	<0.05	<0.05	<0.05			
Nickel	7440-66-6	mg/L	7/8/2011		0.011	0.012			
Nickel	7440-66-6	mg/L	8/11/2011		<0.01	0.013			
Nickel	7440-66-6	mg/L	10/13/2011		<0.05	<0.05			
Nickel	7440-66-6	mg/L	4/11/2012		<0.05	<0.05	<0.05	<0.05	
Nickel	7440-66-6	mg/L	8/1/2012		<0.05	0.0676			
Nickel	7440-66-6	mg/L	10/11/2012			<0.05			
Nickel	7440-66-6	mg/L	12/13/2012				0.183		
Nickel	7440-66-6	mg/L	3/30/2013	<0.05			<0.05		
Nickel	7440-66-6	mg/L	10/5/2015			0.094			
Nickel	7440-66-6	mg/L	4/4/2016			0.00319J			
Nickel	7440-66-6	mg/L	10/17/2016		0.00449J				

Table 9B
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Nickel	7440-66-6	mg/L	4/17/2017					0.00483J	
Nickel	7440-66-6	mg/L	10/11/2017		0.00831	0.00944	0.00825	0.0275	
Nickel	7440-66-6	mg/L	3/15/2018		0.00436J	0.00904	0.00506	0.0114	
Nickel	7440-66-6	mg/L	4/26/2018		0.00489J	0.00679	0.00494J	<0.02	
Nickel	7440-66-6	mg/L	10/16/2018		0.0159	0.0196	0.0152	0.00913	
Nickel	7440-66-6	mg/L	4/16/2019		0.00631	0.00731	0.00257J	0.0134	
Nickel	7440-66-6	mg/L	10/1/2019		0.0256	0.0037J	0.00176J	0.00241J	
Nickel	7440-66-6	mg/L	3/30/2020		0.00402J	0.00861	0.00218J	0.00404J	
Nickel	7440-66-6	mg/L	10/7/2020		0.00682	0.00837	0.134	0.00403J	
Nickel	7440-66-6	mg/L	4/13/2021		0.002J	0.0066	0.0009J	0.014	
Nickel	7440-66-6	mg/L	10/20/2021		<0.004	0.0015J	0.0038J	0.0033J	
Nickel	7440-66-6	mg/L	5/2/2022		0.0029J	0.0042	0.002J	0.0023J	
Nickel	7440-66-6	mg/L	5/1/2023		<0.005	0.00893	0.00519	0.00545	
Nickel	7440-66-6	mg/L	10/16/2023		0.00405J	0.00438J	0.00871	0.0192	0.0136
Nickel	7440-66-6	mg/L	12/20/2023						0.00879
Nickel	7440-66-6	mg/L	3/20/2024						0.00488J
Nickel	7440-66-6	mg/L	4/29/2024		0.129	0.00269J	0.00511	0.0111	0.0483
Nickel	7440-66-6	mg/L	10/11/2024		0.0143	0.0025	0.0071	0.0336	0.0194
Nitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
N-Nitrosodiethylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
N-Nitrosodimethylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
N-Nitrosodi-n-butylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
N-Nitrosodi-n-propylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
N-Nitrosodiphenylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
N-Nitrosomethylethylamine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
N-Nitrosopiperidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
N-Nitrosopyrrolidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
O,O,O-Triethyl Phosphorothioate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
O-Toluidine	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Parathion-Ethyl	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Parathion-Methyl	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
PCB-1016	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8			
PCB-1221	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8			
PCB-1232	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8			
PCB-1242	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8			
PCB-1248	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8			
PCB-1254	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8			
PCB-1260	7440-66-6	ug/L	5/10/2010	<0.8	<0.8	<0.8			
p-Chloroaniline	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Pentachlorobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Pentachloronitrobenzene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Pentachlorophenol [2C]	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Phenacetin	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Phenanthrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Phenol	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Phorate	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Potassium	7440-66-6	mg/L	3/15/2018		2.84	2	3.18	4.15	
Pronamide	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Propionitrile	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Pyrene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Safrole	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Selenium	7440-66-6	mg/L	4/14/2009	<0.01	<0.01	<0.01			
Selenium	7440-66-6	mg/L	7/7/2009		<0.01	<0.01			
Selenium	7440-66-6	mg/L	9/2/2009		<0.01	<0.01			
Selenium	7440-66-6	mg/L	10/25/2009	<0.01	<0.01	<0.01			
Selenium	7440-66-6	mg/L	3/3/2010	<0.01	<0.01	<0.01			
Selenium	7440-66-6	mg/L	5/10/2010	0.0029	0.0029	0.002			
Selenium	7440-66-6	mg/L	7/8/2010	<0.01	<0.01	<0.01			
Selenium	7440-66-6	mg/L	7/8/2011		<0.01	<0.01			
Selenium	7440-66-6	mg/L	8/11/2011		<0.01	<0.01			
Selenium	7440-66-6	mg/L	10/13/2011		<0.005	<0.005			
Selenium	7440-66-6	mg/L	4/11/2012		<0.005	<0.005	<0.005	<0.005	
Selenium	7440-66-6	mg/L	8/1/2012		<0.005	<0.005			
Selenium	7440-66-6	mg/L	10/11/2012			<0.005			
Selenium	7440-66-6	mg/L	12/13/2012				<0.005		
Selenium	7440-66-6	mg/L	3/30/2013	<0.005			<0.005		
Selenium	7440-66-6	mg/L	10/5/2015			<0.005			
Selenium	7440-66-6	mg/L	4/4/2016			<0.005			
Selenium	7440-66-6	mg/L	10/17/2016		0.00103J				
Selenium	7440-66-6	mg/L	4/17/2017					<0.005	
Selenium	7440-66-6	mg/L	10/11/2017		<0.005	<0.005	<0.005	<0.005	
Selenium	7440-66-6	mg/L	3/15/2018		<0.005	<0.005	<0.005	<0.005	
Selenium	7440-66-6	mg/L	4/26/2018		0.00233J	<0.005	<0.005	0.00457J	
Selenium	7440-66-6	mg/L	10/16/2018		<0.0025	<0.0025	<0.0025	<0.0025	
Selenium	7440-66-6	mg/L	4/16/2019		<0.005	<0.005	<0.005	<0.005	
Selenium	7440-66-6	mg/L	10/1/2019		<0.005	<0.005	<0.005	<0.005	
Selenium	7440-66-6	mg/L	3/30/2020		<0.005	<0.005	<0.005	<0.005	
Selenium	7440-66-6	mg/L	10/7/2020		0.00221	0.00178	0.0311	0.00148J	
Selenium	7440-66-6	mg/L	4/13/2021		<0.004	<0.004	<0.004	<0.004	
Selenium	7440-66-6	mg/L	10/20/2021		<0.004	<0.004	<0.004	<0.004	

Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Selenium	7440-66-6	mg/L	5/2/2022		<0.004	<0.004	<0.004	<0.004	
Selenium	7440-66-6	mg/L	5/1/2023		<0.005	<0.005	0.00154J	<0.005	
Selenium	7440-66-6	mg/L	10/16/2023		<0.005	<0.005	<0.005	0.00148J	<0.005
Selenium	7440-66-6	mg/L	12/20/2023						0.0017J
Selenium	7440-66-6	mg/L	3/20/2024						<0.005
Selenium	7440-66-6	mg/L	4/29/2024		<0.005	<0.005	<0.005	<0.005	<0.005
Selenium	7440-66-6	mg/L	10/11/2024		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Silver	7440-66-6	mg/L	4/14/2009	<0.01	<0.01	<0.01			
Silver	7440-66-6	mg/L	7/7/2009		<0.01	<0.01			
Silver	7440-66-6	mg/L	9/2/2009		<0.01	<0.01			
Silver	7440-66-6	mg/L	10/25/2009	<0.025	<0.025	<0.025			
Silver	7440-66-6	mg/L	3/3/2010	<0.025	<0.025	<0.025			
Silver	7440-66-6	mg/L	5/10/2010	<0.02	<0.02	<0.02			
Silver	7440-66-6	mg/L	7/8/2011		<0.025	<0.025			
Silver	7440-66-6	mg/L	8/11/2011		<0.025	<0.025			
Silver	7440-66-6	mg/L	10/13/2011		<0.02	<0.02			
Silver	7440-66-6	mg/L	4/11/2012		<0.02	<0.02	<0.02	<0.02	
Silver	7440-66-6	mg/L	8/1/2012		<0.02	<0.02			
Silver	7440-66-6	mg/L	10/11/2012			<0.02			
Silver	7440-66-6	mg/L	12/13/2012				<0.02		
Silver	7440-66-6	mg/L	3/30/2013	<0.02			<0.02		
Silver	7440-66-6	mg/L	10/5/2015			<0.001			
Silver	7440-66-6	mg/L	4/4/2016			<0.001			
Silver	7440-66-6	mg/L	10/17/2016		<0.001				
Silver	7440-66-6	mg/L	4/17/2017					<0.001	
Silver	7440-66-6	mg/L	10/11/2017		<0.001	<0.001	<0.001	<0.001	
Silver	7440-66-6	mg/L	3/15/2018		<0.001	<0.001	<0.001	<0.001	
Silver	7440-66-6	mg/L	4/26/2018		0.00059J	<0.001	<0.001	<0.001	
Silver	7440-66-6	mg/L	10/16/2018		<0.0005	<0.0005	<0.0005	<0.0005	
Silver	7440-66-6	mg/L	4/16/2019		<0.001	<0.001	<0.001	<0.001	
Silver	7440-66-6	mg/L	10/1/2019		<0.001	<0.001	<0.001	<0.001	
Silver	7440-66-6	mg/L	3/30/2020		<0.001	<0.001	<0.001	<0.001	
Silver	7440-66-6	mg/L	10/7/2020		<0.001	<0.001	<0.02	<0.001	
Silver	7440-66-6	mg/L	4/13/2021		<0.004	<0.004	<0.004	<0.004	
Silver	7440-66-6	mg/L	10/20/2021		<0.004	<0.004	<0.004	<0.004	
Silver	7440-66-6	mg/L	5/2/2022		<0.004	<0.004	<0.004	<0.004	
Silver	7440-66-6	mg/L	5/1/2023		<0.001	<0.001	<0.001	<0.001	
Silver	7440-66-6	mg/L	10/16/2023		<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	12/20/2023						<0.001
Silver	7440-66-6	mg/L	3/20/2024						<0.001
Silver	7440-66-6	mg/L	4/29/2024		<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-66-6	mg/L	10/11/2024		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Sodium	7440-66-6	mg/L	3/15/2018		29.5	22	23.9	29.9	
Styrene	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
Styrene	7440-66-6	ug/L	7/7/2009		<1	<1			
Styrene	7440-66-6	ug/L	9/2/2009		<1	<1			
Styrene	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
Styrene	7440-66-6	ug/L	3/3/2010	<2	<2	<2			
Styrene	7440-66-6	ug/L	5/10/2010	<4	<4	<4			
Styrene	7440-66-6	ug/L	7/8/2011		<1	<1			
Styrene	7440-66-6	ug/L	8/11/2011		<1	<1			
Styrene	7440-66-6	ug/L	10/13/2011		<1	<1			
Styrene	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	8/1/2012		<1	<1			
Styrene	7440-66-6	ug/L	10/11/2012			<1			
Styrene	7440-66-6	ug/L	12/13/2012				35		
Styrene	7440-66-6	ug/L	3/30/2013	<1			5.54		
Styrene	7440-66-6	ug/L	10/5/2015			<10			
Styrene	7440-66-6	ug/L	4/4/2016			<1			
Styrene	7440-66-6	ug/L	10/17/2016		<1				
Styrene	7440-66-6	ug/L	4/17/2017					<1	
Styrene	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
Styrene	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	12/20/2023						<1
Styrene	7440-66-6	ug/L	3/20/2024						<1
Styrene	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
Styrene	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
Sulfate	7440-66-6	mg/L	3/15/2018		183	418	336	889	

Table 9B
Analytical Data Summary - Groundwater Underdrains
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Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Sulfide	7440-66-6	mg/L	5/10/2010	<1	<1	<1			
Tetrachloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
Tetrachloroethene	7440-66-6	ug/L	7/7/2009		<1	<1			
Tetrachloroethene	7440-66-6	ug/L	9/2/2009		<1	<1			
Tetrachloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1			
Tetrachloroethene	7440-66-6	ug/L	3/3/2010	<2	<2	<2			
Tetrachloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
Tetrachloroethene	7440-66-6	ug/L	7/8/2011		<1	<1			
Tetrachloroethene	7440-66-6	ug/L	8/11/2011		<1	<1			
Tetrachloroethene	7440-66-6	ug/L	10/13/2011		<1	<1			
Tetrachloroethene	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	8/1/2012		<1	<1			
Tetrachloroethene	7440-66-6	ug/L	10/11/2012			<1			
Tetrachloroethene	7440-66-6	ug/L	12/13/2012				<25		
Tetrachloroethene	7440-66-6	ug/L	3/30/2013	<1			<1		
Tetrachloroethene	7440-66-6	ug/L	10/5/2015			<10			
Tetrachloroethene	7440-66-6	ug/L	4/4/2016			<1			
Tetrachloroethene	7440-66-6	ug/L	10/17/2016		<1				
Tetrachloroethene	7440-66-6	ug/L	4/17/2017					<1	
Tetrachloroethene	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
Tetrachloroethene	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	12/20/2023						<1
Tetrachloroethene	7440-66-6	ug/L	3/20/2024						<1
Tetrachloroethene	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
Tetrachloroethene	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	7440-66-6	mg/L	4/14/2009	<0.002	<0.002	<0.002			
Thallium	7440-66-6	mg/L	7/7/2009		<0.002	<0.002			
Thallium	7440-66-6	mg/L	9/2/2009		<0.002	<0.002			
Thallium	7440-66-6	mg/L	10/25/2009	<0.002	<0.002	<0.002			
Thallium	7440-66-6	mg/L	3/3/2010	<0.002	<0.002	<0.002			
Thallium	7440-66-6	mg/L	5/10/2010	<0.0004	<0.0004	<0.0004			
Thallium	7440-66-6	mg/L	7/8/2011		<0.002	<0.002			
Thallium	7440-66-6	mg/L	8/11/2011		<0.002	<0.002			
Thallium	7440-66-6	mg/L	10/13/2011		<0.002	<0.002			
Thallium	7440-66-6	mg/L	4/11/2012		<0.002	<0.002	<0.002	<0.002	
Thallium	7440-66-6	mg/L	8/1/2012		<0.002	0.00251			
Thallium	7440-66-6	mg/L	10/11/2012			<0.002			
Thallium	7440-66-6	mg/L	12/13/2012				<0.002		
Thallium	7440-66-6	mg/L	3/30/2013	<0.002			<0.002		
Thallium	7440-66-6	mg/L	10/5/2015			0.000044J			
Thallium	7440-66-6	mg/L	4/4/2016			<0.001			
Thallium	7440-66-6	mg/L	10/17/2016		<0.001				
Thallium	7440-66-6	mg/L	4/17/2017					<0.001	
Thallium	7440-66-6	mg/L	10/11/2017		<0.001	<0.001	<0.001	<0.001	
Thallium	7440-66-6	mg/L	3/15/2018		<0.001	<0.001	<0.001	<0.001	
Thallium	7440-66-6	mg/L	4/26/2018		<0.001	<0.001	<0.001	<0.001	
Thallium	7440-66-6	mg/L	10/16/2018		<0.002	<0.002	<0.002	<0.002	
Thallium	7440-66-6	mg/L	4/16/2019		<0.001	<0.001	<0.001	<0.001	
Thallium	7440-66-6	mg/L	10/1/2019		<0.001	<0.001	<0.001	<0.001	
Thallium	7440-66-6	mg/L	3/30/2020		<0.001	<0.001	<0.001	<0.001	
Thallium	7440-66-6	mg/L	10/7/2020		<0.001	<0.001	<0.02	<0.001	
Thallium	7440-66-6	mg/L	4/13/2021		<0.002	<0.002	<0.002	<0.002	
Thallium	7440-66-6	mg/L	10/20/2021		0.0002J	0.0002J	<0.002	<0.002	
Thallium	7440-66-6	mg/L	5/2/2022		<0.002	<0.002	<0.002	<0.002	
Thallium	7440-66-6	mg/L	5/1/2023		<0.001	0.00052J	<0.001	<0.001	
Thallium	7440-66-6	mg/L	10/16/2023		<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	12/20/2023						<0.001
Thallium	7440-66-6	mg/L	3/20/2024						<0.001
Thallium	7440-66-6	mg/L	4/29/2024		<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-66-6	mg/L	10/11/2024		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Thionazin	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
Tin	7440-66-6	mg/L	5/10/2010	<0.1	<0.1	<0.1			
Toluene	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
Toluene	7440-66-6	ug/L	7/7/2009		<1	<1			
Toluene	7440-66-6	ug/L	9/2/2009		<1	<1			
Toluene	7440-66-6	ug/L	10/25/2009	<1	<1	<1			
Toluene	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
Toluene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			

Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Toluene	7440-66-6	ug/L	7/8/2011		5.98	1.47			
Toluene	7440-66-6	ug/L	8/11/2011		6.84	<1			
Toluene	7440-66-6	ug/L	10/13/2011		1.12	<1			
Toluene	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	8/1/2012		12.7	1.21			
Toluene	7440-66-6	ug/L	10/11/2012			<1			
Toluene	7440-66-6	ug/L	12/13/2012				236		
Toluene	7440-66-6	ug/L	3/30/2013	<1			65.5		
Toluene	7440-66-6	ug/L	10/5/2015			21.7			
Toluene	7440-66-6	ug/L	4/4/2016			<1			
Toluene	7440-66-6	ug/L	10/17/2016		<1				
Toluene	7440-66-6	ug/L	4/17/2017					<1	
Toluene	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
Toluene	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	12/20/2023						<1
Toluene	7440-66-6	ug/L	3/20/2024						<1
Toluene	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
Toluene	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	7440-66-6	mg/L	10/5/2015			180000			
Total Suspended Solids	7440-66-6	mg/L	4/4/2016			1.25J			
Total Suspended Solids	7440-66-6	mg/L	10/17/2016		0.75J				
Total Suspended Solids	7440-66-6	mg/L	4/17/2017					7.67	
Total Suspended Solids	7440-66-6	mg/L	10/11/2017		53.3	23.9	31.1	39.8	
Total Suspended Solids	7440-66-6	mg/L	3/15/2018		60.8	31	42.3	15.8	
Total Suspended Solids	7440-66-6	mg/L	4/26/2018		28.3	31.3	211	2.38	
Total Suspended Solids	7440-66-6	mg/L	10/16/2018		208	342	175	122	
Total Suspended Solids	7440-66-6	mg/L	4/16/2019		7	4.33J	25	0.875J	
Total Suspended Solids	7440-66-6	mg/L	10/1/2019		0.875J	7	21.5	0.75J	
Total Suspended Solids	7440-66-6	mg/L	3/30/2020		4.25	13J	21	<1.88	
Total Suspended Solids	7440-66-6	mg/L	10/7/2020		104	80	160	1.13J	
Total Suspended Solids	7440-66-6	mg/L	4/13/2021		<2	25	29	5	
Total Suspended Solids	7440-66-6	mg/L	10/20/2021		4	4	65	<1	
Total Suspended Solids	7440-66-6	mg/L	5/2/2022		75	50	57	<2	
Total Suspended Solids	7440-66-6	mg/L	5/1/2023		24.6	1.38J	11	4.62	
Total Suspended Solids	7440-66-6	mg/L	10/16/2023		16	29	43	12.5	3.75
Total Suspended Solids	7440-66-6	mg/L	12/20/2023						4.33J
Total Suspended Solids	7440-66-6	mg/L	3/20/2024						4
Total Suspended Solids	7440-66-6	mg/L	4/29/2024		31.3	12.9	58	<1.88	18.5
Total Suspended Solids	7440-66-6	mg/L	10/11/2024		4570	83	158	566	<1.88
Toxaphene	7440-66-6	ug/L	5/10/2010	<2	<2	<2			
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/7/2009		<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	9/2/2009		<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	7/8/2011		<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	8/11/2011		<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/13/2011		<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	8/1/2012		<1	<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2012			<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	12/13/2012				<25		
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2013	<1			<1		
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/5/2015			<10			
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/4/2016			<1			
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/17/2016		<1				
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/17/2017					<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	

Table 9B
Analytical Data Summary - Groundwater Underdrains
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
trans-1,2-Dichloroethene	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	12/20/2023						<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	3/20/2024						<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/14/2009	<5	<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	7/7/2009		<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	9/2/2009		<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/25/2009	<5	<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/3/2010	<5	<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/10/2010	<5	<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	7/8/2011		<10	<10			
trans-1,3-Dichloropropene	7440-66-6	ug/L	8/11/2011		<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/13/2011		<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/11/2012		<5	<5	<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	8/1/2012		<5	<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2012			<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	12/13/2012				<125		
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2013	<5			<5		
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/5/2015			<50			
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/4/2016			<5			
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/17/2016		<5				
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/17/2017					<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2017		<5	<5	<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/15/2018		<5	<5	<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/26/2018		<5	<5	<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2018		<5	<5	<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/16/2019		<5	<5	<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/1/2019		<5	<5	<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/30/2020		<5	<5	<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/7/2020		<5	<5	<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/20/2021		0.4J	<1	<1	<1	
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
trans-1,3-Dichloropropene	7440-66-6	ug/L	5/1/2023		<5	<5	<5	<5	
trans-1,3-Dichloropropene	7440-66-6	ug/L	8/1/2023			<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/16/2023		<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	12/20/2023						<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	3/20/2024						<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	4/29/2024		<5	<5	<5	<5	<5
trans-1,3-Dichloropropene	7440-66-6	ug/L	10/11/2024		<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/14/2009	<10	<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	7/7/2009		<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	9/2/2009		<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/25/2009	<10	<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/3/2010	<10	<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/10/2010	<10	<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	7/8/2011		<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	8/11/2011		<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/13/2011		<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/11/2012		<20	<20	<20	<20	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	8/1/2012		<10	<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/11/2012			<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	12/13/2012				<250		
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/30/2013	<10			<10		
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/5/2015			<100			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/4/2016			<10			
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/17/2016		<10				
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/17/2017					<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/11/2017		<10	<10	<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/15/2018		<10	<10	<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/26/2018		<10	<10	<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/16/2018		<10	<10	<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/16/2019		<10	<10	<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/1/2019		<10	<10	<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/30/2020		<10	<10	<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/7/2020		<10	<10	<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/13/2021		<5	<5	<5	<5	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/20/2021		<5	<5	<5	<5	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/2/2022		<5	<5	<5	<5	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	5/1/2023		<10	<10	<10	<10	
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	8/1/2023			<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	10/16/2023		<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	12/20/2023						<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	3/20/2024						<10
trans-1,4-Dichloro-2-Butene	7440-66-6	ug/L	4/29/2024		<10	<10	<10	<10	<10
trans-1,4-Dichloro-2-butene	7440-66-6	ug/L	10/11/2024		<10.0	<10.0	<10.0	<10.0	<10.0

Table 9B
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Trichloroethene	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
Trichloroethene	7440-66-6	ug/L	7/7/2009		<1	<1			
Trichloroethene	7440-66-6	ug/L	9/2/2009		<1	<1			
Trichloroethene	7440-66-6	ug/L	10/25/2009	<1	<1	<1			
Trichloroethene	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
Trichloroethene	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
Trichloroethene	7440-66-6	ug/L	7/8/2011		<1	<1			
Trichloroethene	7440-66-6	ug/L	8/11/2011		<1	<1			
Trichloroethene	7440-66-6	ug/L	10/13/2011		<1	<1			
Trichloroethene	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	8/1/2012		<1	<1			
Trichloroethene	7440-66-6	ug/L	10/11/2012			<1			
Trichloroethene	7440-66-6	ug/L	12/13/2012				<25		
Trichloroethene	7440-66-6	ug/L	3/30/2013	<1			<1		
Trichloroethene	7440-66-6	ug/L	10/5/2015			<10			
Trichloroethene	7440-66-6	ug/L	4/4/2016			<1			
Trichloroethene	7440-66-6	ug/L	10/17/2016		<1				
Trichloroethene	7440-66-6	ug/L	4/17/2017					<1	
Trichloroethene	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	3/15/2018		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	10/1/2019		0.443J	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	10/7/2020		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
Trichloroethene	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	12/20/2023						<1
Trichloroethene	7440-66-6	ug/L	3/20/2024						<1
Trichloroethene	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
Trichloroethene	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	7440-66-6	ug/L	4/14/2009	<4	<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	7/7/2009		<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	9/2/2009		<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	10/25/2009	<4	<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	3/3/2010	<4	<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	5/10/2010	<4	<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	7/8/2011		<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	8/11/2011		<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	10/13/2011		<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	4/11/2012		<4	<4	<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	8/1/2012		<4	<4			
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2012			<4			
Trichlorofluoromethane	7440-66-6	ug/L	12/13/2012				<100		
Trichlorofluoromethane	7440-66-6	ug/L	3/30/2013	<4			<4		
Trichlorofluoromethane	7440-66-6	ug/L	10/5/2015			<40			
Trichlorofluoromethane	7440-66-6	ug/L	4/4/2016			<4			
Trichlorofluoromethane	7440-66-6	ug/L	10/17/2016		<4				
Trichlorofluoromethane	7440-66-6	ug/L	4/17/2017					<4	
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2017		<4	<4	<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	3/15/2018		<4	<4	<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	4/26/2018		<4	<4	<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	10/16/2018		<4	<4	<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	4/16/2019		<4	<4	<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	10/1/2019		<4	<4	<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	3/30/2020		<4	<4	<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	10/7/2020		<4	<4	<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Trichlorofluoromethane	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Trichlorofluoromethane	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Trichlorofluoromethane	7440-66-6	ug/L	5/1/2023		<4	<4	<4	<4	
Trichlorofluoromethane	7440-66-6	ug/L	8/1/2023			<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/16/2023		<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	12/20/2023						<4
Trichlorofluoromethane	7440-66-6	ug/L	3/20/2024						<4
Trichlorofluoromethane	7440-66-6	ug/L	4/29/2024		<4	<4	<4	<4	<4
Trichlorofluoromethane	7440-66-6	ug/L	10/11/2024		<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	7440-66-6	mg/L	4/14/2009	<0.05	<0.05	<0.05			
Vanadium	7440-66-6	mg/L	7/7/2009		<0.05	<0.05			
Vanadium	7440-66-6	mg/L	9/2/2009		<0.05	<0.05			
Vanadium	7440-66-6	mg/L	10/25/2009	<0.05	<0.05	<0.05			
Vanadium	7440-66-6	mg/L	3/3/2010	<0.05	<0.05	<0.05			
Vanadium	7440-66-6	mg/L	5/10/2010	<0.05	<0.05	<0.05			
Vanadium	7440-66-6	mg/L	7/8/2011		<0.05	<0.05			
Vanadium	7440-66-6	mg/L	8/11/2011		<0.05	<0.05			

Table 9B
Analytical Data Summary - Groundwater Underdrains
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Vanadium	7440-66-6	mg/L	10/13/2011		<0.05	<0.05			
Vanadium	7440-66-6	mg/L	4/11/2012		<0.05	<0.05	<0.05	<0.05	
Vanadium	7440-66-6	mg/L	8/1/2012		<0.05	<0.05			
Vanadium	7440-66-6	mg/L	10/11/2012			<0.05			
Vanadium	7440-66-6	mg/L	12/13/2012				<0.05		
Vanadium	7440-66-6	mg/L	3/30/2013	<0.05			<0.05		
Vanadium	7440-66-6	mg/L	10/5/2015			0.000598J			
Vanadium	7440-66-6	mg/L	4/4/2016			<0.005			
Vanadium	7440-66-6	mg/L	10/17/2016		<0.005				
Vanadium	7440-66-6	mg/L	4/17/2017					<0.005	
Vanadium	7440-66-6	mg/L	10/11/2017		0.00114J	<0.005	<0.005	0.00142J	
Vanadium	7440-66-6	mg/L	3/15/2018		0.0015J	<0.005	<0.005	<0.005	
Vanadium	7440-66-6	mg/L	4/26/2018		0.00195J	<0.005	<0.005	<0.02	
Vanadium	7440-66-6	mg/L	10/16/2018		0.0213	0.0244	0.0128	0.0144	
Vanadium	7440-66-6	mg/L	4/16/2019		<0.005	<0.005	<0.005	<0.005	
Vanadium	7440-66-6	mg/L	10/1/2019		<0.005	<0.005	<0.005	<0.005	
Vanadium	7440-66-6	mg/L	3/30/2020		<0.005	<0.005	<0.005	<0.005	
Vanadium	7440-66-6	mg/L	10/7/2020		<0.005	0.00129	0.128	<0.005	
Vanadium	7440-66-6	mg/L	4/13/2021		<0.02	<0.02	<0.02	<0.02	
Vanadium	7440-66-6	mg/L	10/20/2021		<0.02	<0.02	<0.02	<0.02	
Vanadium	7440-66-6	mg/L	5/2/2022		<0.02	<0.02	<0.02	<0.02	
Vanadium	7440-66-6	mg/L	5/1/2023		<0.005	<0.005	<0.005	<0.005	
Vanadium	7440-66-6	mg/L	10/16/2023		0.00595	<0.005	<0.005	0.00899	<0.005
Vanadium	7440-66-6	mg/L	12/20/2023						<0.005
Vanadium	7440-66-6	mg/L	3/20/2024						<0.005
Vanadium	7440-66-6	mg/L	4/29/2024		<0.005	<0.005	<0.005	<0.005	<0.005
Vanadium	7440-66-6	mg/L	10/11/2024		0.021	0.00121	0.00703	0.00827	<0.00500
Vinyl Acetate	7440-66-6	ug/L	4/14/2009	<2	<2	<2			
Vinyl Acetate	7440-66-6	ug/L	7/7/2009		<2	<2			
Vinyl Acetate	7440-66-6	ug/L	9/2/2009		<2	<2			
Vinyl Acetate	7440-66-6	ug/L	10/25/2009	<2	<2	<2			
Vinyl Acetate	7440-66-6	ug/L	3/3/2010	<2	<2	<2			
Vinyl Acetate	7440-66-6	ug/L	5/10/2010	<2	<2	<2			
Vinyl Acetate	7440-66-6	ug/L	7/8/2011		<2	<2			
Vinyl Acetate	7440-66-6	ug/L	8/11/2011		<2	<2			
Vinyl Acetate	7440-66-6	ug/L	10/13/2011		<2	<2			
Vinyl Acetate	7440-66-6	ug/L	4/11/2012		<20	<20	<20	<20	
Vinyl Acetate	7440-66-6	ug/L	8/1/2012		<4	<4			
Vinyl Acetate	7440-66-6	ug/L	10/11/2012			<10			
Vinyl Acetate	7440-66-6	ug/L	12/13/2012				<50		
Vinyl Acetate	7440-66-6	ug/L	3/30/2013	<2			<2		
Vinyl Acetate	7440-66-6	ug/L	10/5/2015			<100			
Vinyl Acetate	7440-66-6	ug/L	4/4/2016			<10			
Vinyl Acetate	7440-66-6	ug/L	10/17/2016		<10				
Vinyl Acetate	7440-66-6	ug/L	4/17/2017					<10	
Vinyl Acetate	7440-66-6	ug/L	10/11/2017		<10	<10	<10	<10	
Vinyl Acetate	7440-66-6	ug/L	3/15/2018		<10	<10	<10	<10	
Vinyl Acetate	7440-66-6	ug/L	4/26/2018		<10	<10	<10	<10	
Vinyl Acetate	7440-66-6	ug/L	10/16/2018		<10	<10	<10	<10	
Vinyl Acetate	7440-66-6	ug/L	4/16/2019		<10	<10	<10	<10	
Vinyl Acetate	7440-66-6	ug/L	10/1/2019		<10	<10	<10	<10	
Vinyl Acetate	7440-66-6	ug/L	3/30/2020		<10	<10	<10	<10	
Vinyl Acetate	7440-66-6	ug/L	10/7/2020		<10	<10	<10	<10	
Vinyl Acetate	7440-66-6	ug/L	4/13/2021		<5	<5	<5	<5	
Vinyl Acetate	7440-66-6	ug/L	10/20/2021		<5	<5	<5	<5	
Vinyl Acetate	7440-66-6	ug/L	5/2/2022		<5	<5	<5	<5	
Vinyl Acetate	7440-66-6	ug/L	5/1/2023		<10	<10	<10	<10	
Vinyl Acetate	7440-66-6	ug/L	8/1/2023			<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	10/16/2023		<10	<10	<10	<10	<10
Vinyl Acetate	7440-66-6	ug/L	12/20/2023						<10
Vinyl Acetate	7440-66-6	ug/L	3/20/2024						<10
Vinyl Acetate	7440-66-6	ug/L	4/29/2024		<10	<10	<10	<10	<10
Vinyl acetate	7440-66-6	ug/L	10/11/2024		<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl Chloride	7440-66-6	ug/L	4/14/2009	<1	<1	<1			
Vinyl Chloride	7440-66-6	ug/L	7/7/2009		<1	<1			
Vinyl Chloride	7440-66-6	ug/L	9/2/2009		<1	<1			
Vinyl Chloride	7440-66-6	ug/L	10/25/2009	<1	<1	<1			
Vinyl Chloride	7440-66-6	ug/L	3/3/2010	<1	<1	<1			
Vinyl Chloride	7440-66-6	ug/L	5/10/2010	<1	<1	<1			
Vinyl Chloride	7440-66-6	ug/L	7/8/2011		<1	<1			
Vinyl Chloride	7440-66-6	ug/L	8/11/2011		<1	<1			
Vinyl Chloride	7440-66-6	ug/L	10/13/2011		<1	<1			
Vinyl Chloride	7440-66-6	ug/L	4/11/2012		<1	<1	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	8/1/2012		<1	<1			
Vinyl Chloride	7440-66-6	ug/L	10/11/2012			<1			
Vinyl Chloride	7440-66-6	ug/L	12/13/2012				<25		
Vinyl Chloride	7440-66-6	ug/L	3/30/2013	<1			<1		
Vinyl Chloride	7440-66-6	ug/L	10/5/2015			<10			
Vinyl Chloride	7440-66-6	ug/L	4/4/2016			<1			
Vinyl Chloride	7440-66-6	ug/L	10/17/2016		<1				

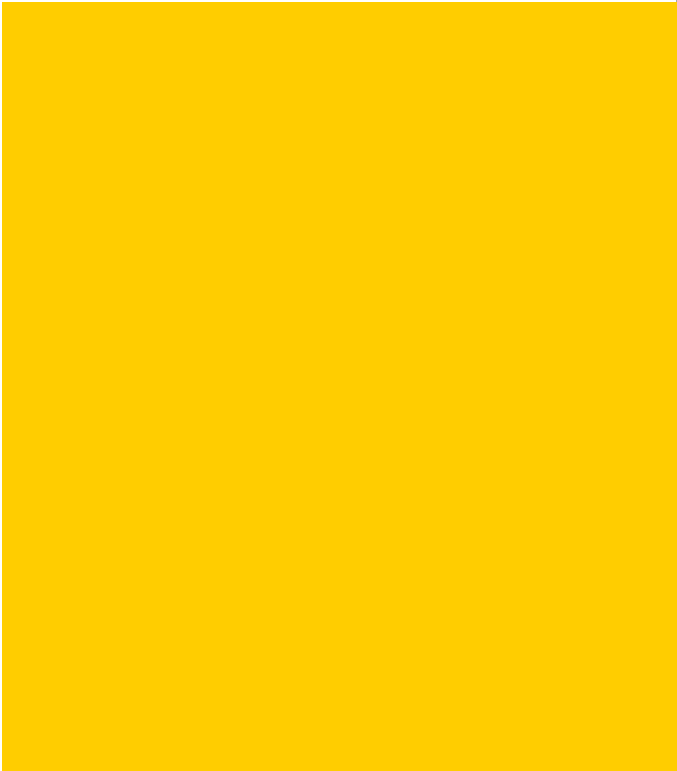
Table 9B
Analytical Data Summary - Groundwater Underdrains
2024 Annual Water Quality Report
Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Vinyl Chloride	7440-66-6	ug/L	4/17/2017					<1	
Vinyl Chloride	7440-66-6	ug/L	10/11/2017		<1	<1	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	3/15/2018		<1	<1	0.185J	<1	
Vinyl Chloride	7440-66-6	ug/L	4/26/2018		<1	<1	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	10/16/2018		<1	<1	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	4/16/2019		<1	<1	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	10/1/2019		<1	<1	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	3/30/2020		<1	<1	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	10/7/2020		<1	0.233	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	4/13/2021		<1	<1	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	10/20/2021		<1	<1	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	5/2/2022		<1	<1	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	5/1/2023		<1	<1	<1	<1	
Vinyl Chloride	7440-66-6	ug/L	8/1/2023			<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	10/16/2023		<1	<1	<1	<1	<1
Vinyl Chloride	7440-66-6	ug/L	12/20/2023						<1
Vinyl Chloride	7440-66-6	ug/L	3/20/2024						<1
Vinyl Chloride	7440-66-6	ug/L	4/29/2024		<1	<1	<1	<1	<1
Vinyl chloride	7440-66-6	ug/L	10/11/2024		<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes	7440-66-6	ug/L	4/14/2009	<3	<3	<3			
Xylenes	7440-66-6	ug/L	7/7/2009		<3	<3			
Xylenes	7440-66-6	ug/L	9/2/2009		<3	<3			
Xylenes	7440-66-6	ug/L	10/25/2009	<6	<6	<6			
Xylenes	7440-66-6	ug/L	3/3/2010	<3	<3	<3			
Xylenes	7440-66-6	ug/L	5/10/2010	<12	<12	<12			
Xylenes	7440-66-6	ug/L	7/8/2011		<3	<3			
Xylenes	7440-66-6	ug/L	8/11/2011		<3	<3			
Xylenes	7440-66-6	ug/L	10/13/2011		<3	<3			
Xylenes	7440-66-6	ug/L	4/11/2012		<3	<3	<3	<3	
Xylenes	7440-66-6	ug/L	8/1/2012		<3	5.57			
Xylenes	7440-66-6	ug/L	10/11/2012			<3			
Xylenes	7440-66-6	ug/L	12/13/2012				350		
Xylenes	7440-66-6	ug/L	3/30/2013	<3			67.1		
Xylenes	7440-66-6	ug/L	10/5/2015			34.5			
Xylenes	7440-66-6	ug/L	4/4/2016			<3			
Xylenes	7440-66-6	ug/L	10/17/2016		<3				
Xylenes	7440-66-6	ug/L	4/17/2017					<3	
Xylenes	7440-66-6	ug/L	10/11/2017		<3	<3	<3	<3	
Xylenes	7440-66-6	ug/L	3/15/2018		<3	<3	<3	<3	
Xylenes	7440-66-6	ug/L	4/26/2018		<3	<3	<3	<3	
Xylenes	7440-66-6	ug/L	10/16/2018		<3	<3	<3	<3	
Xylenes	7440-66-6	ug/L	4/16/2019		<3	<3	<3	<3	
Xylenes	7440-66-6	ug/L	10/1/2019		<3	<3	<3	<3	
Xylenes	7440-66-6	ug/L	3/30/2020		<3	<3	<3	<3	
Xylenes	7440-66-6	ug/L	10/7/2020		<3	<3	0.555	0.484J	
Xylenes	7440-66-6	ug/L	4/13/2021		<2	<2	<2	<2	
Xylenes	7440-66-6	ug/L	10/20/2021		<2	<2	<2	<2	
Xylenes	7440-66-6	ug/L	5/2/2022		<2	<2	<2	<2	
Xylenes	7440-66-6	ug/L	5/1/2023		<3	<3	<3	<3	
Xylenes	7440-66-6	ug/L	8/1/2023			<3	<3	<3	<3
Xylenes	7440-66-6	ug/L	10/16/2023		<3	<3	<3	<3	<3
Xylenes	7440-66-6	ug/L	12/20/2023						<3
Xylenes	7440-66-6	ug/L	3/20/2024						<3
Xylenes	7440-66-6	ug/L	4/29/2024		<3	<3	<3	<3	<3
Xylenes, Total	7440-66-6	ug/L	10/11/2024		<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	7440-66-6	mg/L	4/14/2009	<0.1	<0.1	<0.1			
Zinc	7440-66-6	mg/L	7/7/2009		<0.1	<0.1			
Zinc	7440-66-6	mg/L	9/2/2009		<0.1	<0.1			
Zinc	7440-66-6	mg/L	10/25/2009	<0.1	<0.1	<0.1			
Zinc	7440-66-6	mg/L	3/3/2010	<0.1	<0.1	<0.1			
Zinc	7440-66-6	mg/L	5/10/2010	0.0287	0.0253	0.022			
Zinc	7440-66-6	mg/L	7/8/2010	<0.1	<0.1	<0.1			
Zinc	7440-66-6	mg/L	7/8/2011		<0.1	<0.1			
Zinc	7440-66-6	mg/L	8/11/2011		<0.1				
Zinc	7440-66-6	mg/L	10/13/2011		<0.02	<0.02			
Zinc	7440-66-6	mg/L	4/11/2012		<0.02	<0.02	<0.02	<0.02	
Zinc	7440-66-6	mg/L	8/1/2012		0.0335	<0.02			
Zinc	7440-66-6	mg/L	10/11/2012			<0.02			
Zinc	7440-66-6	mg/L	12/13/2012				0.258		
Zinc	7440-66-6	mg/L	3/30/2013	0.0567			0.861		
Zinc	7440-66-6	mg/L	10/5/2015			0.0822			
Zinc	7440-66-6	mg/L	4/4/2016			<0.01			
Zinc	7440-66-6	mg/L	10/17/2016		<0.01				
Zinc	7440-66-6	mg/L	4/17/2017					<0.02	
Zinc	7440-66-6	mg/L	10/11/2017		<0.02	<0.02	<0.02	0.0128J	
Zinc	7440-66-6	mg/L	3/15/2018		<0.02	<0.02	<0.02	<0.02	
Zinc	7440-66-6	mg/L	4/26/2018		<0.02	<0.02	<0.02	<0.08	
Zinc	7440-66-6	mg/L	10/16/2018		0.0315	0.0307	0.0174J	0.0131J	
Zinc	7440-66-6	mg/L	4/16/2019		<0.02	<0.02	<0.02	<0.02	
Zinc	7440-66-6	mg/L	10/1/2019		<0.02	<0.02	<0.02	<0.02	

Table 9B
Analytical Data Summary - Groundwater Underdrains
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Iowa City Sanitary Landfill
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Constituent	CAS	Unit	Date	ST-1	WT-1	WT-2	WT-3	WT-4	WT-OF
Zinc	7440-66-6	mg/L	3/30/2020		<0.02	<0.02	<0.02	<0.02	
Zinc	7440-66-6	mg/L	10/7/2020		<0.02	<0.02	0.419	<0.02	
Zinc	7440-66-6	mg/L	4/13/2021		<0.02	<0.02	<0.02	<0.02	
Zinc	7440-66-6	mg/L	10/20/2021		<0.02	<0.02	<0.02	<0.02	
Zinc	7440-66-6	mg/L	5/2/2022		<0.02	<0.02	<0.02	<0.02	
Zinc	7440-66-6	mg/L	5/1/2023		<0.02	0.0104J	<0.02	<0.02	
Zinc	7440-66-6	mg/L	10/16/2023		0.00788J	0.00794J	<0.02	0.014J	<0.02
Zinc	7440-66-6	mg/L	12/20/2023						<0.02
Zinc	7440-66-6	mg/L	3/20/2024						<0.02
Zinc	7440-66-6	mg/L	4/29/2024		<0.02	<0.02	<0.02	<0.02	<0.02
Zinc	7440-66-6	mg/L	10/11/2024		0.0291	<0.0200	0.0115	0.0172	<0.0200

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Appendix F

2024 Leachate Control
System Performance
Evaluation Report



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2024 Leachate Control System Performance Evaluation Report

Iowa City Landfill and Recycling Center
Permit No. 52-SDP-01-72P

City of Iowa City, Iowa
Submittal Date: February 28, 2025



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Appendix A Leachate Management Summary

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1 Introduction

The purpose of this Leachate Control System Performance Evaluation Report (LCSPER) is to summarize the performance of the City of Iowa City Sanitary Landfill (Landfill or Site) leachate control system in accordance with the requirements of the Iowa Administrative Code (IAC) 567-113.7(5)"b"(14) and additional Iowa Department of Natural Resources (IDNR) requirements specified in the Sanitary Disposal Project operating permit for the Landfill (Permit No. 52-SDP-01-72P). The reporting period for this report is from January through December 2024.

1.1 Site Location

The City of Iowa City Landfill and Recycling Center is located at 3900 Hebl Avenue Southwest, Iowa City, Iowa 52246. The Municipal Solid Waste Landfill (MSWLF) area is legally described as being located in the SE $\frac{1}{4}$; most of the E $\frac{1}{2}$ and NW $\frac{1}{4}$ of the SW $\frac{1}{4}$; most of the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$; the S $\frac{1}{2}$ of the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$; and 80 rod by 6 rod parcel off the S side of the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$; each in Section 14, Township 79 North, Range 7 West, Johnson County, Iowa. A site map depicting the characteristics of the MSWLF and surrounding vicinity is provided on the attached **Figure 1**.

1.2 Description of Leachate Collection System

1.1.1 Northern and Eastern Unlined/Clay-Lined Areas

The northern and eastern portions of the Landfill include unlined Cells FY72, FY73, FY74, FY75, FY77, and FY78, clay-lined (2-foot compacted clay) Cells FY81, FY83, FY86, and FY89, and clay-lined (4-foot compacted clay) Cell FY91

The leachate control system in the unlined/clay-lined areas consists of a leachate toe drain that extends from the west, north, and east sides of Cells FY72 and FY73, then along the north and east sides of Cells FY74 through FY91. The 2016 Landfill Gas Expansion Project included the installation of an 8 by 12-inch dual-walled leachate line to remove gas condensate and other previously connected leachate/condensate-related liquid that was drained through the toe drain system. Additionally, several of the manholes associated with the toe drain were connected to the landfill gas collection and control system (GCCS) to control odors and emissions. Details on the construction of the dual-walled leachate line and connection of the manholes to the GCCS were included in Appendix A of the Construction Observation Report, 2016 Landfill Gas Collection System Expansion Project, dated June 8, 2017 (**IDNR Doc #89668**). As noted, the dual-walled leachate line is connected to existing leachate and condensate collection pipes, which were previously connected to the toe drain. The dual-walled leachate line gravity drains to Manhole MH-11 which is hydraulically connected to the lift station located at the southeast corner of the Landfill. Leachate is pumped from this location to the City of Iowa City publicly-owned treatment works (POTW).

In accordance with X. Special Provision 2.c. of the Landfill operating permit, leachate levels in this area are measured at 11 monitoring points, which are Gas Collection Wells GW-103, GW-108, GW-110, GW-112, GW-118, GW-120, GW-121, GW-125, GW-133, GW-136, and GW-137.

The location of these leachate monitoring points, the existing toe drain, the dual-walled leachate line on the east side of the Landfill, and the other leachate infrastructure, including the lift station, are depicted in **Figure 1**.

Construction of a leachate extraction system was also completed in this area in November 2018. The project included the installation of an air compressor, 13 pneumatic extraction pumps, air lines, and leachate discharge lines. The extraction system operates continuously and is anticipated to achieve lower leachate head in this area. The 13 pneumatic pumps were installed in the following gas extraction wells and are identified in **Figure 1** as dual extraction wells:

- **GW-108**
- **GW-122**
- **GW-123**
- **GW-125**
- **GW-128**
- **GW-130**
- **GW-133**
- **GW-137**
- **GW-305**
- **GW-306**
- **GW-312**
- **GW-315**
- **GW-318**

In addition to the pneumatic pumps, a leachate lift station was installed in a central Landfill location, in the vicinity of gas well GW-121, to pump leachate extracted from Cells FY96, FY98, and FY02. This lift station was sized to accommodate future expansion of the extraction system. More detail regarding the extraction system is included in the Dual Extraction System Construction Observation Report dated April 7, 2019 (**IDNR Doc #94574**).

Gas Wells GW-116 and GW-117 were connected to the dual extraction system in accordance with the 2023 Dual Extraction System Expansion Construction Documentation Report, submitted to the IDNR on January 3, 2024 (**IDNR Doc #108564**). This allowed pumping of additional leachate from the landfill to the facility's leachate collection system. The additional leachate extraction from these wells was brought online on December 8, 2023.

The Landfill also operates four solar-powered leachate extraction pumps. Extracted leachate is conveyed to the dual-walled leachate line on the east side of the Landfill. Gas extraction wells GW-106, GW-107, and GW-109 and leachate extraction well LEW-1, located in the eastern portion of Cell FY72, are connected to the solar pumps.

1.1.2 Western Lined Area

The western lined area of the Landfill includes Cells FY95, FY96, FY98, FY02, FY06, FY09, FY18, and FY23. Leachate collection pipes within Cells FY95, FY96, FY98, FY02, and FY06, were connected to lateral (east to west) leachate collection pipes within Cell FY09, which convey leachate to the main leachate header pipe aligned along the west portion of Cell FY09. From there, the leachate is conveyed to Manhole MH-18 located on the southwest corner of the Landfill. From there, leachate flows south of the Landfill property and ultimately connects to a leachate lift station at the southeast corner of the Landfill (MH-11). Leachate laterals in Cells FY18 and FY23 convey leachate to the main leachate header pipe on the west edge of these cells, which convey it south to Manhole MH-18 and eventually to Manhole MH-11. Leachate is pumped via a lift station, which is hydraulically connected to Manhole MH-11, to the City of Iowa City POTW.

For the 2024 monitoring period, leachate level monitoring in the lined areas of the site included Monitoring Points LP-1, LP-2, LP-3, LP-4, and LP-5. Monitoring Points LP-4 and LP-5 are located in two leachate cleanouts that were installed as part of the FY23 Cell Construction Project. Monitoring Points LP-4 and LP-5 were justified as replacement monitoring locations for Monitoring Point LPZ-06R2, which was previously located on the west edge of Cell FY06. Monitoring Point LPZ-06R2 was decommissioned in January 2024. Historical leachate level monitoring points in the lined areas of the site have been detailed in previous LCSPERs.

2 Leachate System Performance

A Leachate Management Summary table, included in **Appendix A**, summarizes monthly leachate column thickness measurements in Non-Subtitle D Areas (Northern and Eastern Unlined/Clay-Lined Cells) and head on liner measurements in Subtitle D Areas (Western Lined Cells) of the Landfill during the 2024 reporting period. The table also summarizes monthly leachate volumes discharged to the City of Iowa City's POTW

2.1 Northern and Eastern Unlined/Clay-Lined Areas

The requirement for leachate head over unlined areas is not specified in the most recent version of 567 IAC 113, however, the requirement in the 2002 version of 567 IAC 113 required the lowest possible leachate levels above the liner and a method of measuring the leachate head. Leachate levels measured by Landfill staff during this reporting period are included in **Appendix A**.

Historical leachate column thickness measurements for the period from 2013 through the present are in the Leachate Column Thicknesses and Levels Table and depicted on graphs which are included in **Appendix B**. Leachate levels in the leachate piezometers generally remained within or less than historical ranges during this 2024 reporting period with the exception of GW-108. During the historical monitoring period, the two highest leachate column thicknesses measured at leachate piezometer GW-108, 13.79 feet and 12.15 feet, occurred during May 2024 and December 2024, respectively. The largest leachate column thickness measured prior to 2024 occurred during the June 2017 monthly measurement at 12.13 feet. The extraction pump in leachate piezometer GW-108 was not operational during the May 2024 monitoring event which could have contributed to the relatively large increase in leachate head during that monthly measurement. The extraction pump was operational during the June 2024 through August 2024 monthly monitoring events. During the September to December 2024, the extraction pump in GW-108 was not operational. Since the pump was not operational during the September to December 2024 period, this may have influenced the steady rise in leachate level at GW-108. Repair options have been identified for the extraction pump in GW-108 and will be conducted by Landfill personnel upon receipt of replacement parts for the pump.

2.2 Western Lined Area

The Subtitle D-compliant portion of the Landfill, which includes Cells FY95, FY96, FY98, FY02, FY06, FY09, FY18 and FY23, is monitored by Leachate Monitoring Locations LP-1, LP-2, LP-3, LP-4, and LP-5. Pursuant to IAC 567-113.7(5)"b"(3), the *"MSWLF unit shall have a leachate collection system that maintains less than a 30-centimeter (i.e., 12-inch) depth of leachate over*

the liner.“ Leachate levels in the LP-1, LP-2, LP-3, LP-4, and LP-4 monitoring locations remained below the 12-inch head on liner limit during this reporting period. Leachate levels measured by Landfill staff during this reporting period are included in **Appendix A**. Historical head on liner measurements for the period from 2014 through the present are in the Leachate Column Thicknesses and Levels Table and depicted on graphs which are included in **Appendix B**.

2.3 Volume of Leachate Collected and Treated Off-Site

As noted in **Section 1.2**, leachate is discharged via a forcemain to the City of Iowa City POTW for treatment. Leachate is not recirculated nor treated on-site. The Landfill has a treatment agreement with the City of Iowa City POTW for disposal of leachate. The volume of leachate discharged monthly to the City of Iowa City POTW is summarized on the table included in **Appendix A**. For this reporting period, total annual leachate discharged to the POTW was 30,133,340 gallons.

Annual raw leachate sample analysis is not required by the City of Iowa City POTW. Therefore, testing data of raw leachate is not included in this report.

3 Leachate System Recommendations

It is recommended that the Landfill continue to conduct the following items to maintain the effectiveness of the leachate control and monitoring system:

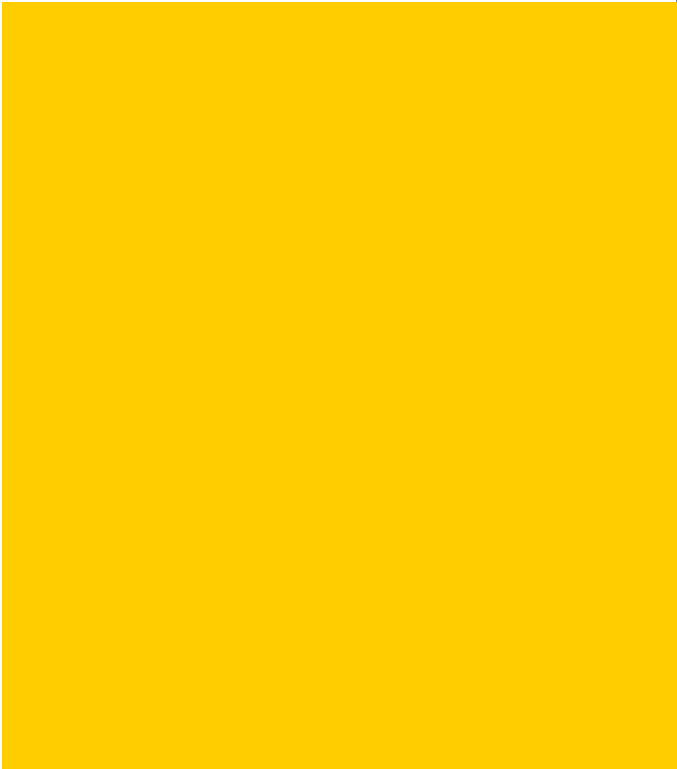
- Continue monitoring liquid levels on a monthly basis in accordance with the IDNR approved operating permit for the Non-Subtitle D Areas (Northern and Eastern Unlined/Clay-Lined Cells).
- Continue monitoring liquid levels on a monthly basis in accordance with IAC 567-113.7(5)“b”(3) at Monitoring Locations LP-1, LP-2, LP-3, LP-4, and LP-5 in the Subtitle D Areas (Western Lined Cells). If levels indicate an exceedance of the 12-inch allowable thickness, the following steps will be recorded and reported in the LCSPER in accordance with the Landfill’s operating permit:
 - Date of original and any verification measurement,
 - If a 12-inch or greater leachate column is verified, specific action taken by the certified operator to lower leachate thickness, or an explanation why specific actions were not necessary,
 - Date and results of follow-up measurement,
 - Repeat steps 2 and 3 as necessary until a compliant measurement is collected.
- Maintain good vegetation over the final cover and intermediate cover over the inactive areas.
- Continue operation and maintenance of the leachate control system in accordance with the IDNR approved Leachate Control System Plan.
- Continue recording the volume of leachate conveyed to and treated at the City of Iowa City POTW.
- Continue cleaning the leachate collection system once every three years or more frequently if leachate head or the volume of leachate indicates cleaning is necessary.

The leachate collection lines were last cleaned during the 2023 reporting period. The next cleaning event is tentatively scheduled for 2026.

- Continue efforts to extract leachate from gas wells using the pneumatic and solar powered pumps.



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Figures



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C:\pwworking\central01\4872283\Fig1_Leachate Control System.dwg, Layout1, 2/7/2025 10:18:56 AM, MBICKFORD

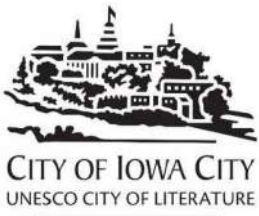


LEGEND

- PROPERTY BOUNDARY
- WASTE --- PERMITTED EDGE OF WASTE
- CELL BOUNDARY
- LEACHATE LINE - PERFORATED
- LEACHATE LINE - SOLID
- ⊗ LEACHATE PIEZOMETER
- Ⓢ MANHOLE
- ◆ DUAL-EXTRACTION GAS WELL

NOTES:

- AERIAL IMAGERY PROVIDED BY AEROVIEW SERVICES, TAKEN ON JULY 1, 2024.



**CITY OF IOWA CITY
LANDFILL AND RECYCLING CENTER**

LEACHATE COLLECTION SYSTEM
2024 ANNUAL WATER QUALITY REPORT

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Appendix A
Leachate Management
Summary

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Leachate Management Summary
2024 Leachate Control System Performance Evaluation Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Month	Leachate Column Thickness ^[1] (FT.)											Maximum Head on Liner ^[1] (FT.)					Leachate Collected Total ^[2] (GAL.)	Monthly Precipitation ^[3] (IN.)
	Non-Subtitle D Area											Subtitle D Area						
	GW-103	GW-108	GW-110	GW-112	GW-118	GW-120	GW-121	GW-125	GW-133	GW-136	GW-137	LP-1	LP-2	LP-3	LP-4	LP-5		
January 2024	4.08	7.62	5.63	14.48	7.56	5.04	15.37	19.21	17.50	11.11	11.50	0.00	0.08	0.08	0.02	0.01	2,077,930	1.83
February 2024	3.80	7.76	5.24	15.94	7.61	6.01	15.13	18.61	11.67	11.46	12.12	0.00	0.08	0.10	0.08	0.02	1,794,453	0.15
March 2024	3.78	7.70	5.38	16.34	7.78	6.01	15.87	18.31	8.67	11.71	11.80	0.00	0.08	0.10	0.10	0.05	1,229,712	2.48
April 2024	4.30	7.76	5.49	16.65	8.26	5.79	16.23	5.21	8.18	11.63	11.15	0.00	0.08	0.10	0.12	0.07	6,179,976	5.30
May 2024	4.90	13.79	7.09	18.10	2.74	7.22	15.38	22.71	20.08	11.59	10.19	0.00	0.08	0.10	0.07	0.10	5,952,228	5.65
June 2024	4.98	8.06	5.95	17.34	7.84	6.56	15.26	13.49	2.61	11.66	7.20	0.00	0.08	0.10	0.02	0.18	2,350,800	5.09
July 2024	4.94	10.78	6.35	17.43	7.91	6.34	16.05	13.03	2.33	11.31	7.20	0.00	0.08	0.10	0.21	0.18	2,823,700	7.08
August 2024	4.95	7.90	5.94	17.19	7.86	6.44	15.54	9.27	7.58	11.98	7.12	0.00	0.08	0.12	0.18	0.18	2,586,113	4.29
September 2024	5.38	9.08	6.44	16.71	7.86	6.56	14.97	9.71	7.56	11.71	8.91	0.00	0.07	0.10	0.33	0.00	834,420	0.03
October 2024	4.98	10.68	5.19	16.03	7.76	6.06	15.78	9.09	7.98	11.39	8.70	0.00	0.08	0.10	0.38	0.03	838,178	2.05
November 2024	4.78	11.71	5.39	15.97	7.97	5.98	15.84	5.51	8.30	12.00	7.30	0.00	0.08	0.12	0.32	0.03	2,070,810	2.40
December 2024	4.60	12.15	5.10	15.25	8.03	5.93	15.84	4.94	8.13	11.92	7.24	0.00	0.07	0.10	0.05	0.08	1,395,020	1.84
Annual Totals:																	30,133,340	38.19

NOTES:
¹ Monthly leachate level measurement data provided by Landfill staff.
² Monthly leachate volume data provided by Landfill staff. All leachate collected at the Landfill is discharged to the City of Iowa City Publicly-Owned Treatment Works via a forcemain.
³ Monthly precipitation data obtained from the Iowa State University Iowa Environmental Mesonet for Iowa City (https://mesonet.agron.iastate.edu/ASOS/reports/mon_prec.php?year=2024).

FT. - Feet
GAL. - Gallons
IN. - Inches

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Appendix B
Historical Leachate
Level Data and Graphs

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Leachate Column Thicknesses and Levels
2024 Leachate Control System Performance Evaluation Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Month	Leachate Column Thickness ^[1] (FT.)											Maximum Head on Liner ^[1] (FT.)				
	Non-Subtitle D Area											Subtitle D Area				
	GW-103	GW-108	GW-110	GW-112	GW-118	GW-120	GW-121	GW-125	GW-133	GW-136	GW-137	LP-1	LP-2	LP-3	LP-4	LP-5
Jan-13	3.46	9.34	NM	14.89	NM	3.31	9.92	27.14	21.63	9.97	27.14	Destroyed	Destroyed	NI	NI	NI
Feb-13	3.41	9.90	0.97	15.11	10.84	3.57	10.03	27.19	21.60	10.03	27.12	Destroyed	Destroyed	NI	NI	NI
Mar-13	3.56	9.87	0.90	15.24	10.75	3.32	9.97	26.67	22.45	9.86	26.86	Destroyed	Destroyed	NI	NI	NI
Apr-13	3.82	9.77	1.12	16.21	10.87	4.56	9.99	28.12	25.53	9.98	27.27	Destroyed	Destroyed	NI	NI	NI
May-13	4.81	6.29	1.87	20.90	10.85	5.55	9.94	31.34	27.48	9.96	27.80	Destroyed	Destroyed	NI	NI	NI
Jun-13	4.81	11.35	2.08	20.92	10.86	5.37	10.21	31.56	27.43	10.00	27.88	Destroyed	Destroyed	NI	NI	NI
Jul-13	4.82	10.93	2.10	20.93	10.85	5.50	10.16	31.58	27.45	9.99	27.89	Destroyed	Destroyed	NI	NI	NI
Aug-13	4.67	10.71	2.03	19.45	11.25	4.75	9.94	31.49	26.06	10.27	27.75	Destroyed	Destroyed	NI	NI	NI
Sep-13	4.48	10.32	1.53	18.50	10.76	4.52	9.91	31.24	24.91	10.30	27.42	Destroyed	Destroyed	NI	NI	NI
Oct-13	4.33	10.11	1.43	17.68	10.79	4.35	9.86	31.02	24.08	10.09	27.28	Destroyed	Destroyed	NI	NI	NI
Nov-13	4.17	9.86	1.58	16.88	10.87	4.42	9.99	31.02	23.80	10.30	27.39	Destroyed	Destroyed	NI	NI	NI
Dec-13	4.08	9.88	1.30	16.35	10.90	4.40	10.08	30.58	23.67	10.10	27.35	NM	NM	NI	NI	NI
Jan-14	3.83	9.61	1.07	15.46	10.73	4.18	9.87	29.76	22.37	9.89	27.20	NM	NM	NI	NI	NI
Feb-14	3.61	9.23	0.74	15.13	10.72	4.01	9.95	29.85	21.26	10.08	26.12	NM	NM	NI	NI	NI
Mar-14	3.50	9.08	0.98	15.27	10.97	3.75	10.10	28.80	22.09	10.09	21.87	TM	0.02	NI	NI	NI
Apr-14	3.33	8.83	0.90	17.75	10.90	3.64	10.11	28.00	21.83	10.00	23.85	TM	0.02	NI	NI	NI
May-14	3.53	10.60	2.15	17.25	11.84	4.51	10.05	28.25	22.99	9.95	25.00	TM	0.02	NI	NI	NI
Jun-14	3.79	10.01	1.05	17.87	10.82	4.84	10.14	29.05	25.63	9.93	26.68	TM	0.02	NI	NI	NI
Jul-14	4.55	10.41	1.58	19.18	10.74	5.44	10.09	29.30	27.20	10.05	27.96	TM	0.02	NI	NI	NI
Aug-14	4.56	10.18	1.20	19.55	10.78	5.05	9.70	30.17	27.57	10.11	28.03	TM	0.02	NI	NI	NI
Sep-14	4.67	10.38	1.30	20.65	10.82	5.70	10.26	30.54	28.56	10.59	29.10	TM	0.02	NI	NI	NI
Oct-14	4.73	10.08	1.24	19.96	10.86	5.37	10.26	30.62	27.53	10.46	29.06	TM	0.02	NI	NI	NI
Nov-14	4.57	10.04	1.23	20.02	10.86	5.40	9.96	30.74	27.36	10.38	28.02	TM	0.02	NI	NI	NI
Dec-14	4.32	9.73	1.12	19.11	10.85	5.20	10.26	29.74	25.88	10.48	27.60	TM	0.02	NI	NI	NI
Jan-15	4.02	9.58	1.32	18.04	10.90	5.41	10.35	29.43	24.99	10.50	28.90	TM	0.02	NI	NI	NI
Feb-15	3.88	9.59	1.20	18.01	10.97	5.41	10.28	29.39	25.02	10.56	28.76	TM	0.02	NI	NI	NI
Mar-15	4.00	9.55	1.20	18.34	10.80	4.40	9.31	28.50	25.24	9.82	28.25	TM	0.02	NI	NI	NI
Apr-15	3.72	9.50	0.97	20.14	10.99	4.69	10.35	28.67	25.49	10.32	29.49	TM	0.02	NI	NI	NI
May-15	4.29	10.08	2.00	21.98	10.98	5.67	10.36	28.49	25.92	10.57	29.84	TM	0.02	NI	NI	NI
Jun-15	4.38	10.06	2.02	21.60	10.94	5.37	10.36	28.36	26.40	10.69	29.90	TM	0.02	NI	NI	NI
Jul-15	4.48	10.03	1.86	21.91	10.98	5.52	10.34	29.50	26.58	10.74	30.05	TM	0.02	NI	NI	NI
Aug-15	4.37	9.82	1.86	20.61	10.92	5.13	10.17	29.45	25.56	10.58	30.45	TM	0.02	NI	NI	NI
Sep-15	4.41	9.76	1.83	21.25	10.98	5.28	10.25	30.21	25.99	10.42	30.45	TM	0.02	NI	NI	NI
Oct-15	4.34	9.68	1.49	20.05	10.96	5.07	10.34	30.22	25.60	10.56	28.86	TM	0.02	NI	NI	NI
Nov-15	4.64	10.60	1.84	21.94	11.05	5.31	10.38	30.47	27.59	10.65	28.28	TM	0.02	NI	NI	NI
Dec-15	4.91	11.05	1.89	22.73	11.01	6.07	10.39	31.06	28.44	10.62	28.19	TM	0.02	NI	NI	NI
Jan-16	4.83	10.78	2.12	22.55	10.95	5.85	10.28	32.02	28.98	10.58	28.46	TM	0.02	NI	NI	NI
Feb-16	4.94	11.04	2.21	22.24	11.07	5.66	10.36	32.14	28.95	10.54	28.48	TM	0.02	NI	NI	NI
Mar-16	4.58	10.39	2.19	21.96	11.23	5.87	10.36	31.64	26.68	10.55	28.15	0.00	0.00	NI	NI	NI
Apr-16	4.43	10.14	1.33	19.56	11.10	6.92	9.82	31.44	25.79	9.15	27.11	0.03	0.00	NI	NI	NI
May-16	3.95	9.41	1.49	20.07	11.04	4.83	10.41	30.61	25.43	9.50	27.83	0.05	0.00	NI	NI	NI

Leachate Column Thicknesses and Levels
2024 Leachate Control System Performance Evaluation Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Month	Leachate Column Thickness ^[1] (FT.)											Maximum Head on Liner ^[1] (FT.)				
	Non-Subtitle D Area											Subtitle D Area				
	GW-103	GW-108	GW-110	GW-112	GW-118	GW-120	GW-121	GW-125	GW-133	GW-136	GW-137	LP-1	LP-2	LP-3	LP-4	LP-5
Jun-16	4.04	9.47	1.50	20.11	11.14	5.02	10.38	31.06	25.55	9.55	28.67	0.14	0.00	NI	NI	NI
Jul-16	4.09	9.56	1.49	21.33	11.17	5.41	10.40	31.27	26.13	9.60	28.65	0.05	0.00	NI	NI	NI
Aug-16	4.15	9.54	1.50	20.79	11.07	5.23	10.50	31.71	26.26	9.56	28.90	0.07	0.20	NI	NI	NI
Sep-16	4.08	9.44	1.42	20.10	10.95	5.01	10.26	32.11	26.92	9.55	28.39	0.08	NM	NI	NI	NI
Oct-16	3.80	9.13	1.38	18.78	10.91	4.70	10.31	31.81	26.09	9.53	27.88	0.07	NM	NI	NI	NI
Nov-16	4.82	NM	1.74	17.68	10.98	4.59	10.38	31.44	26.18	9.85	24.54	0.07	NM	NI	NI	NI
Dec-16	4.49	NM	1.59	15.06	10.70	4.21	10.53	30.58	24.69	9.63	24.11	0.07	NM	NI	NI	NI
Jan-17	4.34	NM	1.62	16.41	10.79	4.24	10.55	30.13	25.22	9.70	24.14	0.08	NM	NI	NI	NI
Feb-17	4.20	NM	1.52	16.41	10.81	4.19	10.64	29.82	25.41	9.66	23.72	0.08	NM	NI	NI	NI
Mar-17	4.26	NM	1.68	18.05	10.92	4.91	10.64	29.95	26.34	9.59	24.75	0.08	NM	NI	NI	NI
Apr-17	4.91	NM	1.75	19.46	10.80	5.33	10.65	30.65	27.22	9.55	25.07	0.10	NM	NI	NI	NI
May-17	5.05	NM	1.80	19.53	10.90	5.42	10.72	30.96	27.75	9.64	25.17	0.10	NM	NI	NI	NI
Jun-17	5.10	12.13	1.77	18.77	10.94	5.20	10.76	31.16	27.41	9.90	25.18	0.10	0.02	NI	NI	NI
Jul-17	5.03	12.07	1.77	17.53	10.90	4.86	10.56	30.97	26.95	9.85	24.84	0.08	TM	NI	NI	NI
Aug-17	4.76	12.07	1.73	17.72	10.90	4.82	10.63	30.98	26.83	9.96	25.01	0.10	TM	NI	NI	NI
Sep-17	4.69	11.65	1.57	16.72	10.99	4.77	10.73	30.97	26.38	9.97	25.41	0.08	TM	NI	NI	NI
Oct-17	4.46	11.99	1.78	16.18	11.03	4.68	10.76	30.87	25.99	9.97	25.11	0.12	TM	NI	NI	NI
Nov-17	4.32	9.35	1.70	14.96	10.87	4.54	10.78	30.42	25.61	9.89	24.75	0.10	TM	NI	NI	NI
Dec-17	4.10	9.44	1.65	14.28	10.91	4.45	10.80	29.84	24.73	9.82	24.54	0.10	TM	NI	NI	NI
Jan-18	4.01	8.89	1.39	14.26	11.12	4.55	10.67	29.50	24.37	9.60	24.89	0.08	TM	NI	NI	NI
Feb-18	3.87	7.98	1.23	13.42	11.11	4.26	10.75	29.06	24.04	9.56	23.83	0.08	TM	NI	NI	NI
Mar-18	3.83	4.13	1.74	12.91	10.90	4.26	10.83	28.47	24.08	9.50	24.00	TM	TM	NI	NI	NI
Apr-18	3.94	8.18	1.83	16.02	11.07	5.12	10.86	29.22	26.22	9.63	24.79	TM	0.02	NI	NI	NI
May-18	3.96	6.49	1.86	15.64	11.02	5.02	10.83	29.75	26.53	9.55	25.28	0.21	0.03	NI	NI	NI
Jun-18	3.95	4.11	1.85	15.18	11.05	4.83	10.88	30.09	26.32	9.80	25.02	0.21	0.05	NI	NI	NI
Jul-18	3.90	4.10	1.85	15.18	11.02	4.46	10.86	30.12	26.02	9.88	25.02	0.21	0.05	NI	NI	NI
Aug-18	3.83	6.75	1.85	14.84	11.04	4.46	10.84	30.10	24.82	9.89	25.06	TM	0.08	NI	NI	NI
Sep-18	5.35	6.73	1.72	17.11	11.09	5.16	10.85	31.23	27.13	9.96	25.46	TM	0.08	NI	NI	NI
Oct-18	5.50	10.01	1.96	17.95	11.08	5.68	10.99	29.79	24.54	9.93	10.72	0.08	0.08	NI	NI	NI
Nov-18	5.02	7.44	2.49	18.30	11.14	5.74	10.94	Dry(P)	4.41	9.96	Dry(P)	0.14	0.08	0.02	NI	NI
Dec-18	4.20	7.33	2.32	18.68	10.94	5.54	10.97	5.97	4.48	9.82	3.13	0.16	0.08	0.02	NI	NI
Jan-19	5.41	11.52	4.46	17.86	10.37	4.80	10.75	25.81	18.41	9.63	8.34	0.16	0.10	0.03	NI	NI
Feb-19	5.26	8.21	4.36	17.56	6.15	4.88	10.91	14.95	13.71	9.54	8.37	0.14	0.10	0.03	NI	NI
Mar-19	5.20	9.12	4.86	17.74	6.34	5.04	11.13	5.54	8.40	9.68	7.23	0.13	0.13	0.03	NI	NI
Apr-19	5.03	7.27	5.09	18.04	6.52	5.46	11.13	17.29	9.07	9.78	7.05	0.10	0.14	0.03	NI	NI
May-19	6.10	7.85	5.86	20.27	6.48	6.74	12.25	29.05	8.36	9.89	7.28	0.10	0.10	0.05	NI	NI
Jun-19	5.82	7.38	6.66	19.27	6.55	5.46	11.31	5.83	9.08	9.90	7.24	0.12	0.10	0.07	NI	NI
Jul-19	5.28	6.88	6.16	18.97	6.48	4.93	11.53	6.16	8.82	9.41	7.38	0.07	0.13	0.07	NI	NI
Aug-19	4.16	7.25	6.54	17.58	6.65	4.93	11.43	6.21	8.93	9.93	7.00	0.07	0.13	0.05	NI	NI

Leachate Column Thicknesses and Levels
2024 Leachate Control System Performance Evaluation Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Month	Leachate Column Thickness ^[1] (FT.)											Maximum Head on Liner ^[1] (FT.)				
	Non-Subtitle D Area											Subtitle D Area				
	GW-103	GW-108	GW-110	GW-112	GW-118	GW-120	GW-121	GW-125	GW-133	GW-136	GW-137	LP-1	LP-2	LP-3	LP-4	LP-5
Sep-19	3.89	7.22	6.56	17.27	6.61	4.86	11.47	5.47	8.80	9.89	7.04	0.07	0.13	0.07	NI	NI
Oct-19	5.04	7.24	7.10	18.65	6.53	5.74	11.32	5.99	9.04	9.95	6.79	0.05	0.13	0.07	NI	NI
Nov-19	5.02	9.24	7.06	18.73	6.74	5.76	12.12	23.09	2.58	10.43	6.52	0.05	0.14	0.08	NI	NI
Dec-19	4.20	7.62	6.66	19.03	6.51	5.76	11.47	5.43	10.46	9.83	7.04	0.05	0.14	0.08	NI	NI
Jan-20	5.10	7.36	6.64	18.80	6.65	6.25	11.43	23.29	8.38	9.70	6.49	0.03	0.14	0.08	NI	NI
Feb-20	4.67	7.38	7.02	19.18	6.66	6.34	11.61	17.42	8.82	9.81	6.85	0.03	0.16	0.07	NI	NI
Mar-20	5.83	7.80	7.22	19.33	6.70	7.11	11.69	26.83	8.60	9.81	7.08	0.02	0.16	0.08	NI	NI
Apr-20	4.40	9.28	7.44	19.57	6.78	6.93	11.85	30.06	9.07	9.96	7.00	0.02	0.16	0.10	NI	NI
May-20	4.20	8.66	7.58	18.70	6.86	6.34	12.21	6.05	8.94	10.07	7.00	0.03	0.16	0.14	NI	NI
Jun-20	4.30	8.42	7.45	19.27	6.78	6.79	12.33	6.11	8.78	9.76	7.02	0.02	0.14	0.07	NI	NI
Jul-20	5.00	8.37	7.16	18.35	6.55	5.84	12.56	5.61	9.50	9.66	7.52	0.02	0.14	0.08	NI	NI
Aug-20	4.57	7.10	6.79	18.05	6.86	5.54	12.81	5.85	8.93	10.51	7.15	0.02	0.16	0.03	NI	NI
Sep-20	4.70	8.48	7.66	18.44	6.87	5.64	13.13	10.21	10.94	10.61	8.36	0.02	0.14	0.00	NI	NI
Oct-20	4.76	9.26	8.14	17.80	6.36	5.96	14.05	23.49	8.61	11.41	8.56	0.00	0.14	0.07	NI	NI
Nov-20	4.72	7.36	7.94	17.53	7.01	5.59	13.63	5.72	8.63	10.69	7.48	0.02	0.16	0.07	NI	NI
Dec-20	4.93	7.53	7.56	18.15	7.04	6.49	13.86	5.39	11.40	10.69	6.82	0.00	0.14	0.07	NI	NI
Jan-21	5.07	6.92	8.16	17.97	9.92	5.86	13.65	17.49	10.24	10.59	7.02	0.02	0.14	0.07	NI	NI
Feb-21	4.82	7.47	8.54	18.33	7.15	6.34	13.33	19.38	11.15	10.25	6.96	0.02	0.16	0.10	NI	NI
Mar-21	5.41	7.25	9.82	19.65	7.05	7.53	13.94	17.56	8.32	10.51	6.99	0.00	0.14	0.13	NI	NI
Apr-21	5.67	7.47	10.55	19.67	7.10	7.04	14.14	17.86	8.63	10.80	7.33	0.00	0.14	0.13	NI	NI
May-21	5.20	7.60	9.63	18.56	6.81	6.02	13.55	7.30	8.60	10.83	7.05	0.00	0.14	0.10	NI	NI
Jun-21	5.00	7.03	8.13	18.13	6.96	5.74	14.11	5.31	9.16	11.29	7.68	0.00	0.16	0.14	NI	NI
Jul-21	4.98	7.06	8.48	18.29	7.21	5.32	14.63	4.49	9.08	10.91	8.50	0.00	0.13	0.13	NI	NI
Aug-21	5.08	9.50	8.73	18.34	7.04	5.36	14.32	23.21	17.96	9.09	12.60	0.00	0.13	0.21	NI	NI
Sep-21	4.88	7.06	7.48	17.63	7.02	5.06	14.41	4.21	8.60	11.20	5.82	0.00	0.13	0.17	NI	NI
Oct-21	4.99	7.18	7.36	18.17	7.10	5.24	14.75	5.24	8.77	11.19	8.05	0.00	0.13	0.13	NI	NI
Nov-21	4.93	8.12	8.46	19.13	7.04	5.44	14.82	5.66	8.40	11.33	7.51	0.00	0.13	0.13	NI	NI
Dec-21	4.86	6.88	8.36	17.45	7.24	5.24	14.76	10.56	8.67	11.18	7.50	0.00	0.10	0.10	NI	NI
Jan-22	4.35	8.86	7.96	14.65	6.76	4.56	13.94	8.31	12.53	10.74	8.48	0.00	0.13	0.13	NI	NI
Feb-22	4.39	8.32	7.24	15.40	6.86	4.68	14.23	24.66	8.67	10.83	7.22	0.00	0.13	0.14	NI	NI
Mar-22	4.64	7.27	7.86	17.84	7.19	5.42	15.28	26.73	8.90	11.01	7.31	0.00	0.11	0.13	NI	NI
Apr-22	5.17	6.87	10.80	19.05	6.91	7.04	14.65	6.61	8.84	10.81	7.00	0.00	0.10	0.13	NI	NI
May-22	5.17	9.90	10.74	19.25	6.56	6.67	15.11	5.76	8.69	11.14	6.72	0.00	0.10	0.10	NI	NI
Jun-22	5.06	7.38	9.59	18.09	7.08	5.66	14.91	5.55	8.60	11.15	7.02	0.00	0.10	0.10	NI	NI
Jul-22	4.90	7.47	9.02	17.60	7.26	5.68	15.23	5.63	8.57	11.33	6.89	0.04	0.08	0.08	NI	NI
Aug-22	5.19	7.60	8.54	17.57	6.46	5.32	15.81	5.86	8.57	10.61	7.62	0.04	0.10	0.08	NI	NI
Sep-22	5.23	7.33	7.16	16.80	7.16	5.00	16.01	5.21	8.76	11.30	7.70	0.00	0.08	0.08	NI	NI
Oct-22	4.47	6.97	7.54	16.13	7.44	5.25	15.58	5.46	8.58	11.33	8.60	0.00	0.08	0.10	NI	NI
Nov-22	4.57	7.28	8.20	14.97	7.48	5.12	15.48	5.23	8.20	11.25	7.12	0.02	0.08	0.03	NI	NI
Dec-22	4.29	9.03	6.96	13.40	7.16	4.52	15.22	6.13	11.67	10.84	7.70	0.00	0.08	0.10	NI	NI

Leachate Column Thicknesses and Levels
2024 Leachate Control System Performance Evaluation Report
City of Iowa City Sanitary Landfill
Permit No. 52-SDP-01-72P

Month	Leachate Column Thickness ^[1] (FT.)											Maximum Head on Liner ^[1] (FT.)				
	Non-Subtitle D Area											Subtitle D Area				
	GW-103	GW-108	GW-110	GW-112	GW-118	GW-120	GW-121	GW-125	GW-133	GW-136	GW-137	LP-1	LP-2	LP-3	LP-4	LP-5
Jan-23	4.09	7.46	6.73	14.50	7.30	4.74	15.29	5.66	8.58	11.02	7.32	0.00	0.07	0.10	NI	NI
Feb-23	4.29	9.73	6.24	16.39	7.36	5.21	15.42	10.55	8.79	11.13	7.28	0.00	0.08	0.10	NI	NI
Mar-23	5.00	11.00	8.13	18.87	7.36	7.19	14.98	10.71	9.33	11.36	7.14	0.00	0.08	0.10	NI	NI
Apr-23	5.08	7.46	8.47	19.34	7.64	7.20	15.22	6.15	8.99	9.56	5.80	0.00	0.08	0.10	NI	NI
May-23	5.08	7.38	8.31	20.05	7.46	7.52	15.53	6.86	8.58	9.51	6.35	0.00	0.08	0.10	NI	NI
Jun-23	4.99	7.37	7.46	18.73	7.58	7.34	15.03	5.31	9.20	11.95	7.11	0.00	0.08	0.08	NI	NI
Jul-23	4.79	7.47	6.13	16.91	7.62	7.08	15.38	4.68	9.03	12.09	7.04	0.00	0.08	0.08	NI	NI
Aug-23	4.68	7.21	5.77	16.86	7.66	5.66	15.47	5.31	8.90	12.02	8.40	0.00	0.07	0.08	NI	NI
Sep-23	4.47	7.46	5.45	16.84	7.66	5.53	15.48	5.33	9.10	11.96	5.60	0.00	0.08	0.10	NI	NI
Oct-23	4.29	7.55	5.44	16.23	8.07	3.34	15.35	4.06	8.98	11.81	7.14	0.00	0.08	0.12	NI	NI
Nov-23	4.30	7.38	5.33	15.45	7.54	4.40	15.43	4.26	9.58	11.53	7.30	0.00	0.08	0.10	NI	NI
Dec-23	4.20	9.13	5.34	16.94	7.58	5.16	15.33	20.31	16.96	11.21	12.60	0.00	0.08	0.10	NI	NI
Jan-24	4.08	7.62	5.63	14.48	7.56	5.04	15.37	19.21	17.50	11.11	11.50	0.00	0.08	0.08	0.02	0.01
Feb-24	3.80	7.76	5.24	15.94	7.61	6.01	15.13	18.61	11.67	11.46	12.12	0.00	0.08	0.10	0.08	0.02
Mar-24	3.78	7.70	5.38	16.34	7.78	6.01	15.87	18.31	8.67	11.71	11.80	0.00	0.08	0.10	0.10	0.05
Apr-24	4.30	7.76	5.49	16.65	8.26	5.79	16.23	5.21	8.18	11.63	11.15	0.00	0.08	0.10	0.12	0.07
May-24	4.90	13.79	7.09	18.10	2.74	7.22	15.38	22.71	20.08	11.59	10.19	0.00	0.08	0.10	0.07	0.10
Jun-24	4.98	8.06	5.95	17.34	7.84	6.56	15.26	13.49	2.61	11.66	7.20	0.00	0.08	0.10	0.02	0.18
Jul-24	4.94	10.78	6.35	17.43	7.91	6.34	16.05	13.03	2.33	11.31	7.20	0.00	0.08	0.10	0.21	0.18
Aug-24	4.95	7.90	5.94	17.19	7.86	6.44	15.54	9.27	7.58	11.98	7.12	0.00	0.08	0.12	0.18	0.18
Sep-24	5.38	9.08	6.44	16.71	7.86	6.56	14.97	9.71	7.56	11.71	8.91	0.00	0.07	0.10	0.33	0.00
Oct-24	4.98	10.68	5.19	16.03	7.76	6.06	15.78	9.09	7.98	11.39	8.70	0.00	0.08	0.10	0.38	0.03
Nov-24	4.78	11.71	5.39	15.97	7.97	5.98	15.84	5.51	8.30	12.00	7.30	0.00	0.08	0.12	0.32	0.03
Dec-24	4.60	12.15	5.10	15.25	8.03	5.93	15.84	4.94	8.13	11.92	7.24	0.00	0.07	0.10	0.05	0.08

NOTES:

¹ Monthly leachate level measurement data provided by Landfill staff.

FT. - Feet

GAL. - Gallons

IN. - Inches

NM - Not Measured

NI - Not Installed

TM - Transducer Malfunction

DRY(P) - Indicates the well was dry above pump which is placed approximately 5 feet from bottom of the well.

LP-1 measures the FY09 Sump.

LP-2 measures the FY09 Liner.

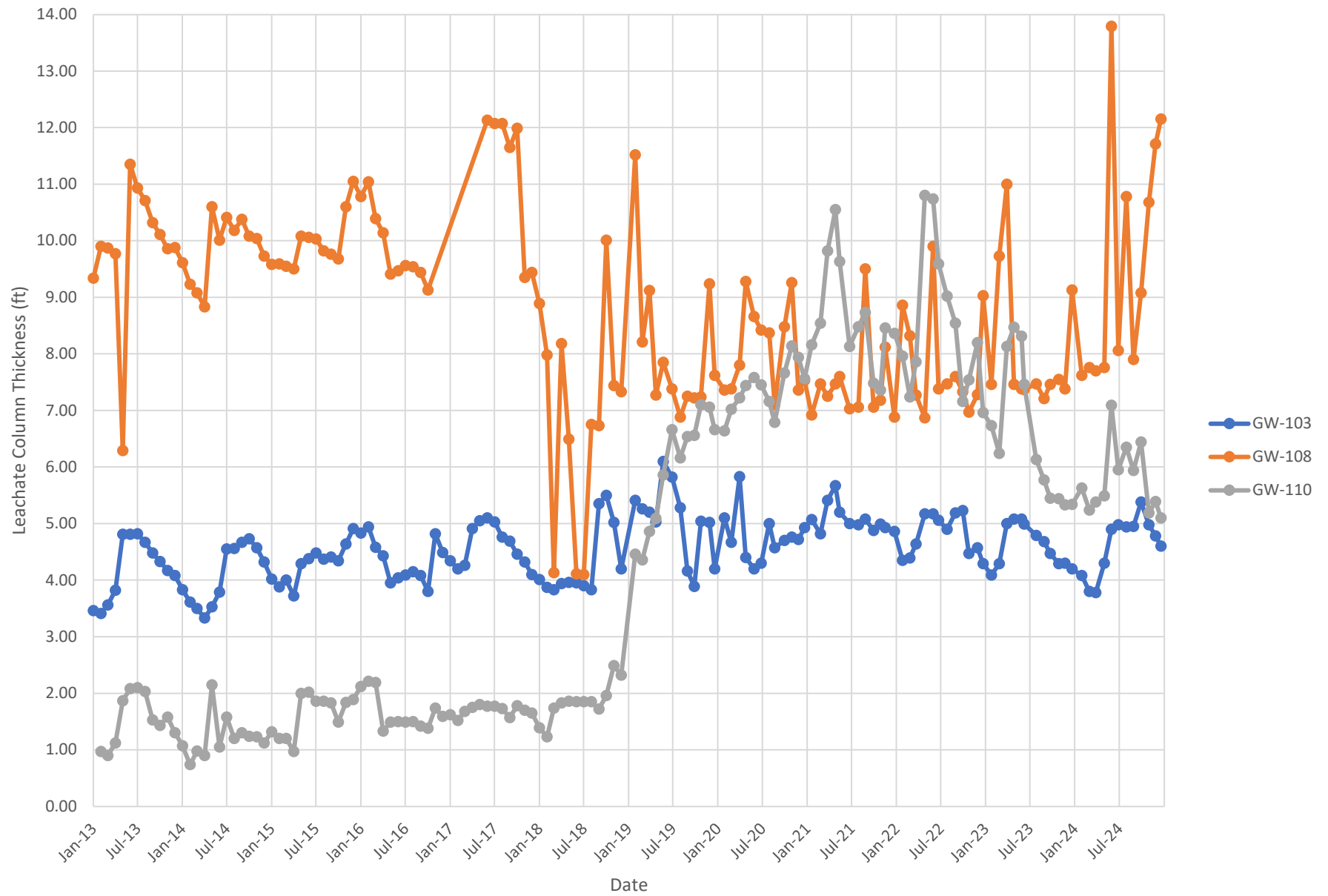
LP-3 measures the FY18 Liner.

LP-4 measures the FY18 Liner.

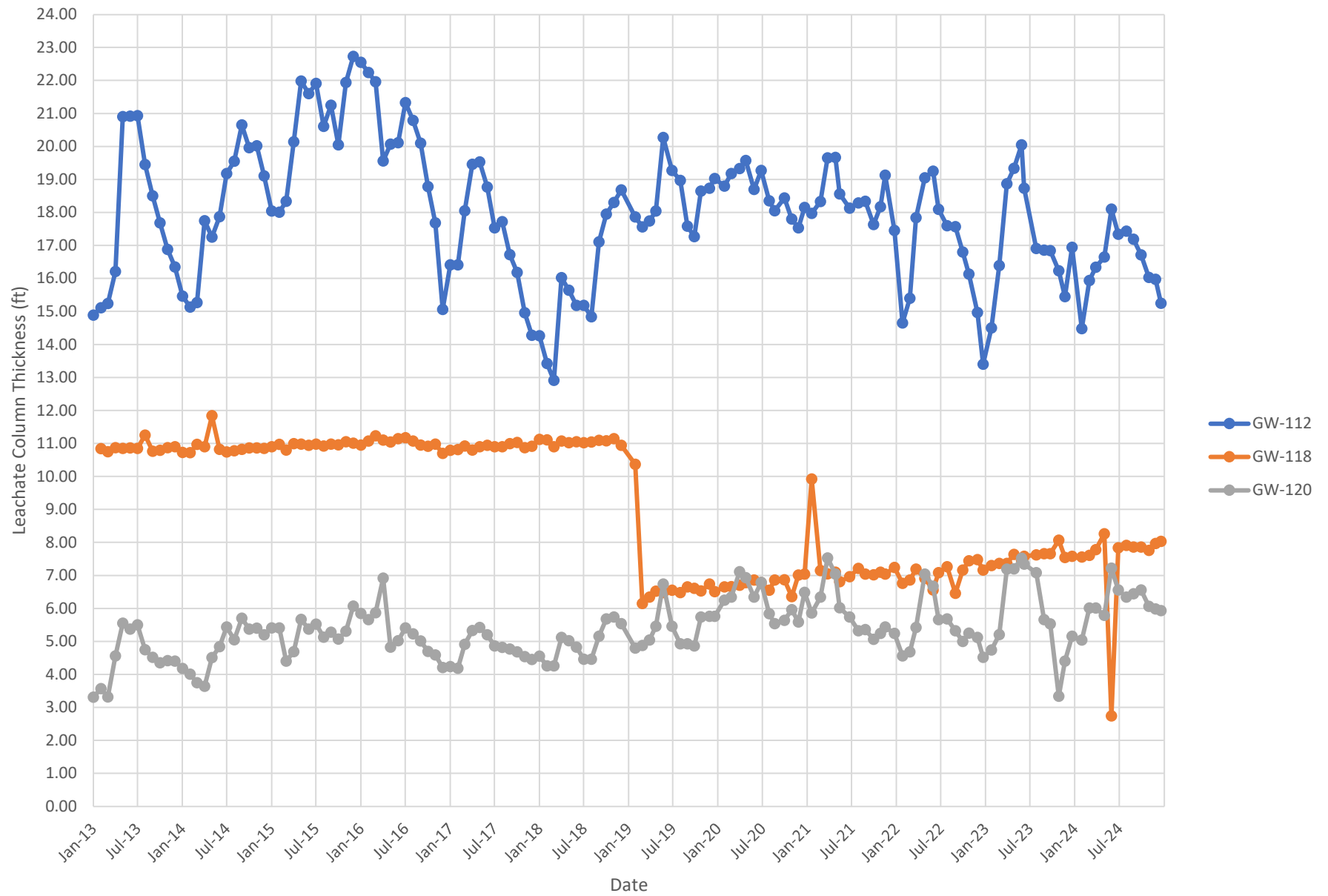
LP-5 measures the FY23 Liner.

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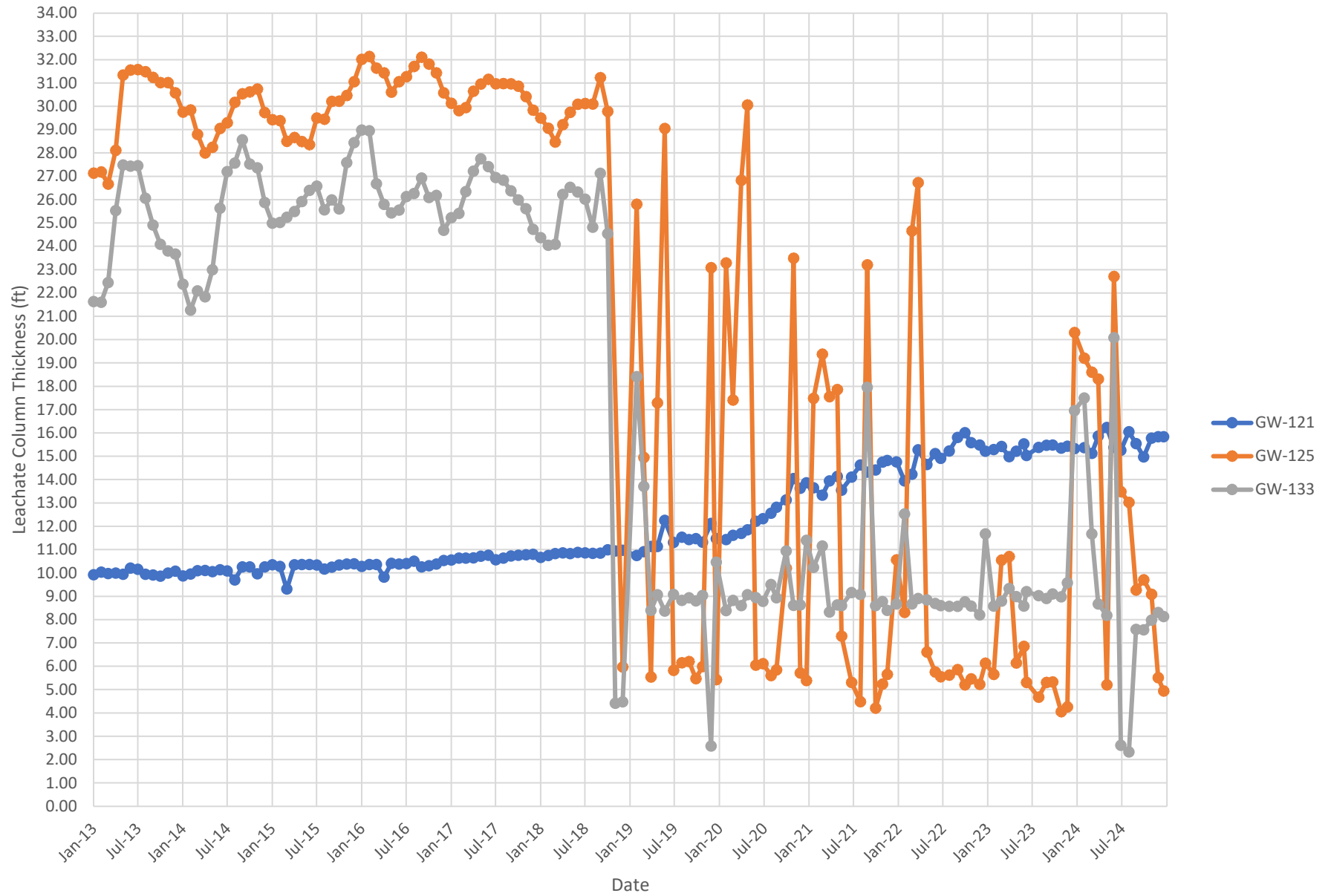
Leachate Column Thickness (GW-103, GW-108, GW-110)



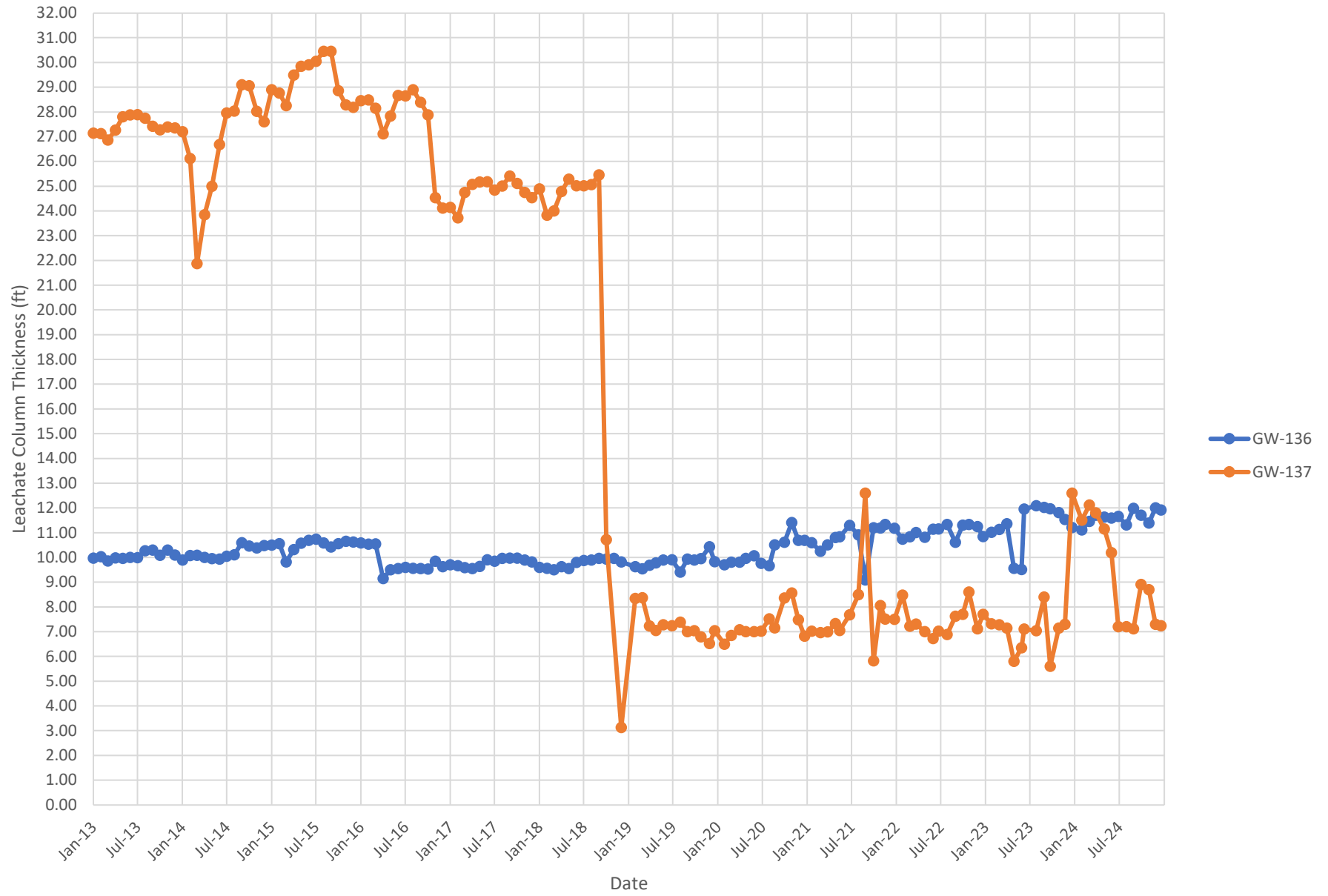
Leachate Column Thickness (GW-112, GW-118, GW-120)



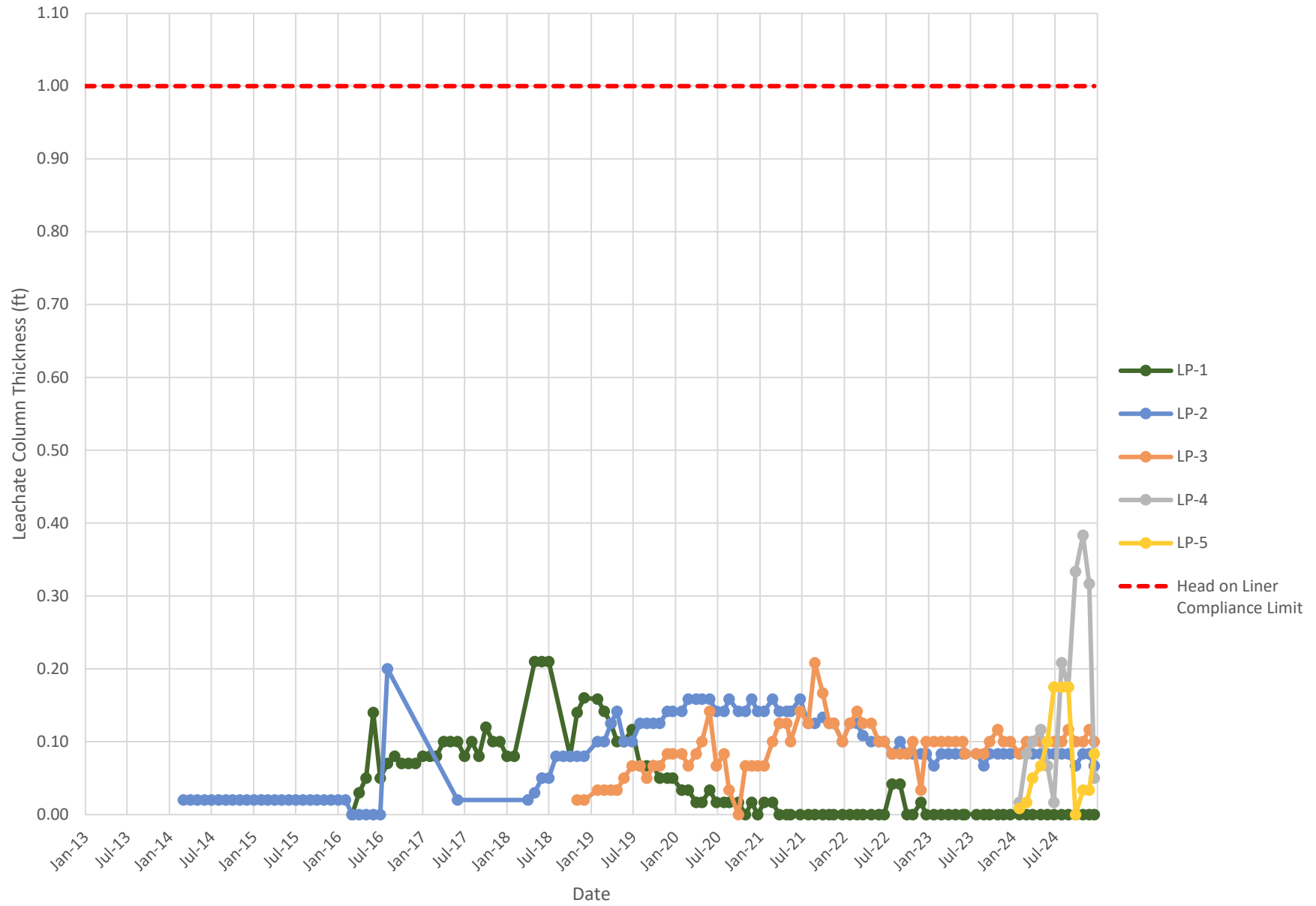
Leachate Column Thickness (GW-121, GW-125, GW-133)

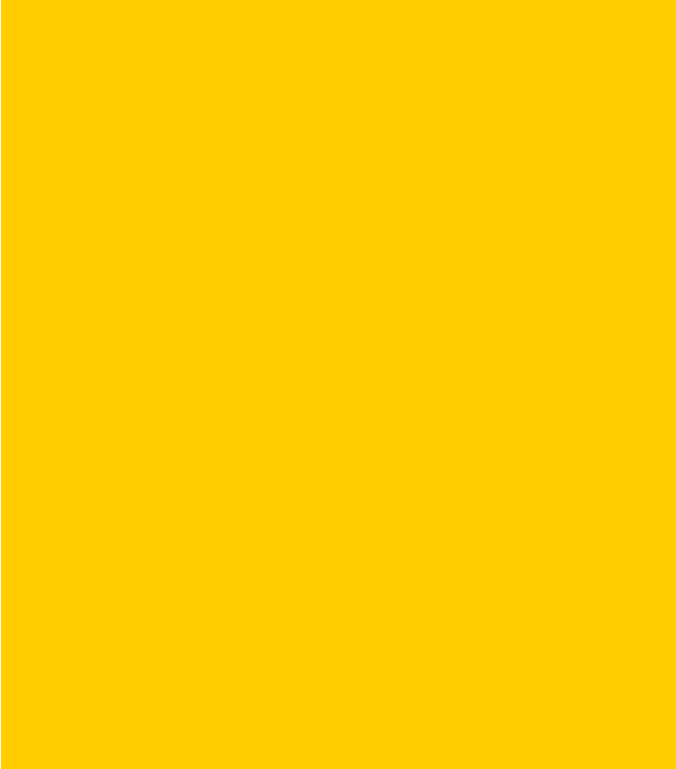


Leachate Column Thickness (GW-136, GW-137)



Leachate Column Thickness (LP-1, LP-2, LP-3, LP-4, LP-5)





Appendix G

2024 Methane Migration
Monitoring Report



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City of Iowa City Landfill & Recycling Center

2024 Methane Migration Monitoring Report

City of Iowa City, Iowa
February 28, 2025



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Introduction and Purpose

The City of Iowa City Landfill & Recycling Center (Landfill or Site) is located approximately one mile west of Iowa City, within Section 14, Township 79 North, Range 7 West, in Johnson County, Iowa. The Site currently operates under a solid waste disposal permit (No. 52-SDP-01-72P and subsequent amendments) issued by the Iowa Department of Natural Resources (IDNR). Waste disposal at the Site began in 1972. The Site contains Resource Conservation and Recovery Act (RCRA) Subtitle D lined and unlined cells. Currently, waste placement has occurred in cells FY72 through FY23, and cells FY72 through FY91 have been closed with a certified clay cap.

Pursuant to Iowa Administrative Code (IAC) 567-113, the concentration of methane gas at facility property boundaries and within facility structures must be monitored quarterly for levels exceeding the lower explosive limit (LEL) for methane. Results from each quarterly event are to be documented, along with any exceedances, and corrective action taken to mitigate them.

This annual monitoring report summarizes the results from the four quarterly methane monitoring events conducted during the 2024 calendar year which meets the reporting requirements of IAC 567-113.9(2)(d).

Regulatory Requirements

Pursuant to **IAC 567-113.9(2)(a)**, the concentration of methane gas was measured at the facility's property boundaries and within all facility structures. Monitoring was conducted by Landfill staff on a quarterly basis in accordance with **IAC 567-113.9(2)(b)** and the Methane Migration Monitoring Plan. Annual reporting requirements from the Methane Migration Monitoring Plan are stated below:

- Details of the methane monitoring sampling locations and monitoring results,
- Actions taken in response to monitored exceedances,
- Results of steps taken to address exceedances of the methane gas limits specified at **§113.9(2)(a)**,
- A site map that delineates: (1) structures; (2) perimeter boundary monitoring locations; (3) other monitoring points where gas readings were taken; and (4) areas of landfill gas migration, if any, outside the municipal solid waste landfill units; and
- A narrative explaining and interpreting the data collected during the previous year.

Data Collection and Measurement Results

Per **IAC 567-113.9(2)(d)**, the following summarizes the gas monitoring results, any action taken (if necessary), and the results of steps taken to address gas levels exceeding the threshold

limits (if any were reported within the reporting period). A full summary of the 2024 quarterly monitoring data is included on **Table 1**. The subsurface landfill gas monitoring points are depicted on the attached **Figure 1**. During each quarterly monitoring event, percent methane was measured at the monitoring locations with an RKI Instruments GX-2009 Portable Gas Analyzer. Monitoring results indicated no exceedances of 25 percent of the LEL in facility structures and no exceedances of 100 percent of the LEL at the property boundary during each quarterly monitoring event.

Table 1. Summary of Methane Monitoring Results

Monitoring Point	Location	1 st Quarter 2/20/2024		2 nd Quarter 5/15/2024		3 rd Quarter 8/7/2024		4 th Quarter 12/18/2024	
		%CH ₄	%LEL	%CH ₄	%LEL	%CH ₄	%LEL	%CH ₄	%LEL
GMW-1	Gas Well, North Property Boundary	0	0	0	0	0	0	0	0
GMP-N	At Surface, North Property Boundary	0	0	0	0	0	0	0	0
GMP-S	At Surface, South Property Boundary	0	0	0	0	0	0	0	0
GMP-W	At Surface, West of Landfill (Near Creek)	0	0	0	0	0	0	0	0
GMP-E	At Surface, East Property Boundary	0	0	0	0	0	0	0	0
BLDG-1	Scalehouse	0	0	0	0	0	0	0	0
BLDG-2	Airport Building	0	0	0	0	0	0	0	0
BLDG-3	Storm Shelter Building	0	0	0	0	0	0	0	0
BLDG-4	Shop	0	0	0	0	0	0	0	0
BLDG-5	Shop/Breakroom	0	0	0	0	0	0	0	0
BLDG-6	Salvage Barn	0	0	0	0	0	0	0	0
ST-1	Groundwater Underdrain (SE Corner)	0	0	0	0	0	0	0	0
WT-1	Groundwater Underdrain (SW Corner)	0	0	0	0	0	0	0	0
WT-2	Groundwater Underdrain (SW Corner)	0	0	0	0	0	0	0	0
WT-3	Groundwater Underdrain (SW Corner)	0	0	0	0	0	0	0	0
WT-4	Groundwater Underdrain (SW Corner)	0	0	0	0	0	0	0	0
WT-5	Groundwater Underdrain (SW Corner)	0	0	0	0	0	0	0	0

NOTES:

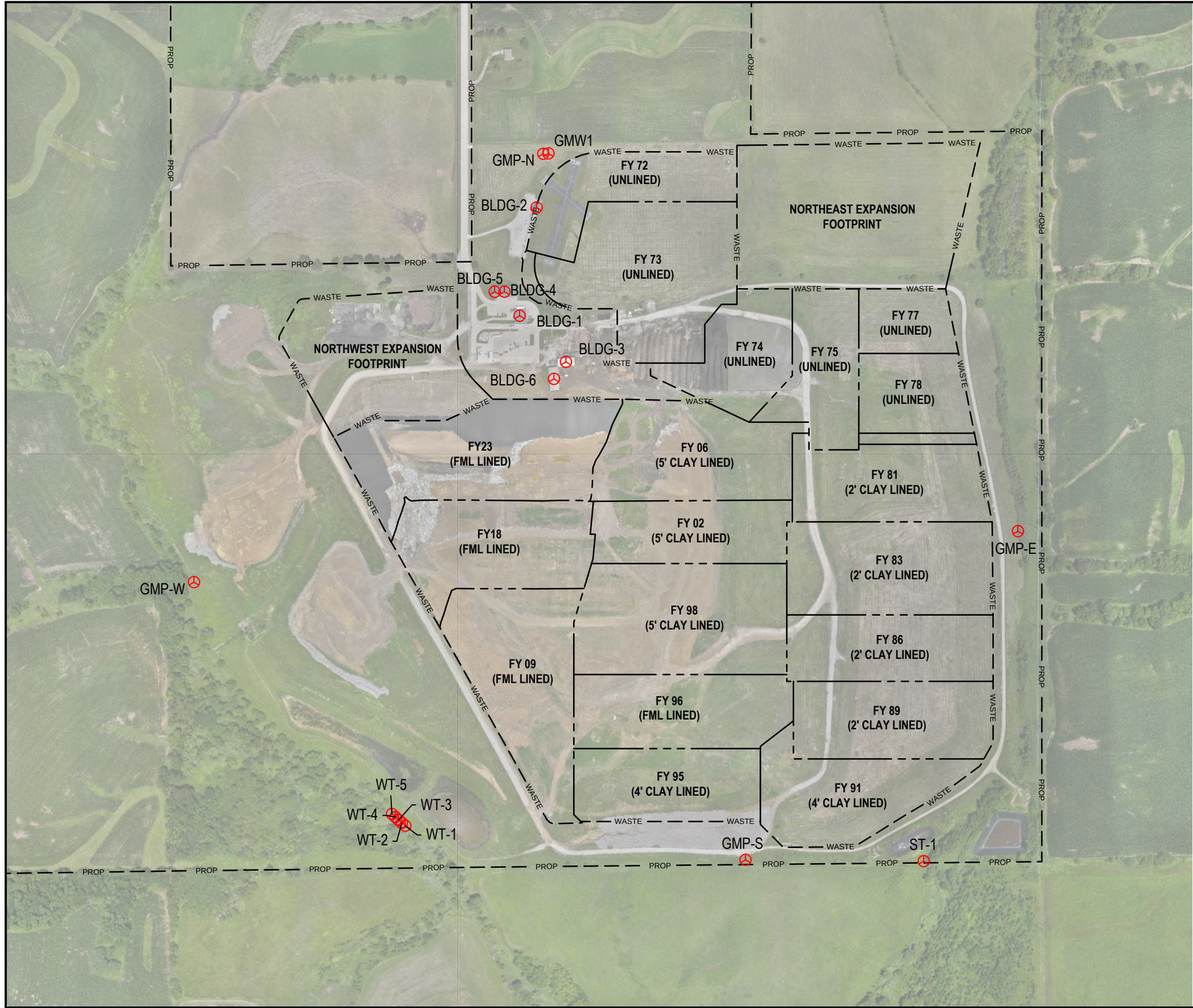
Bolded and underlined readings indicate an exceedance of the regulatory limit.

%CH₄ – Percent methane by volume of gas.

%LEL - % lower explosive limit (5% by gas volume for methane).

Conclusion

During the 2024 calendar year monitoring period, a methane concentration, reported as percent by volume of gas, was not detected with the Portable Gas Analyzer during the quarterly monitoring events. Monitoring results indicated no exceedances of 25 percent of the LEL in facility structures and no exceedances of 100 percent of the LEL at the property boundary. There is no evidence that methane was migrating offsite during the 2024 monitoring period. Methane monitoring at the Site will continue on a quarterly basis in 2025.

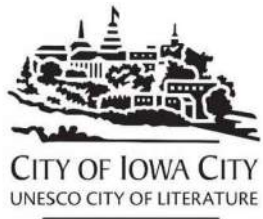


LEGEND

- PROP — — — — — PROPERTY BOUNDARY
- WASTE — — — — — PERMITTED EDGE OF WASTE
- - - - - PHASE AND CELL BOUNDARIES
- ⊗ GMP-X METHANE MONITORING LOCATION

NOTES:

1. AERIAL IMAGERY PROVIDED BY AEROVIEW SERVICES, TAKEN ON JULY 1, 2024.



**CITY OF IOWA CITY
LANDFILL AND RECYCLING CENTER**

METHANE MONITORING NETWORK
2024 ANNUAL WATER QUALITY REPORT

DATE
FEBRUARY 2025

FIGURE