2025 Annual Water Quality Report

Central Disposal Landfill
Permit No. 95-SDP-01-72

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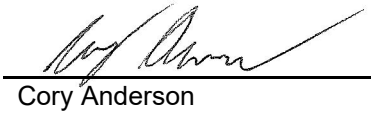

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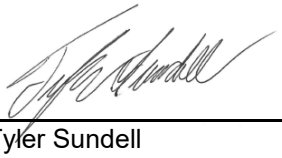

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The 2025 AWQR also incorporates the required Statistical Monitoring Report in its entirety as prepared by Otter Creek Environmental Services LLC.

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Executive Summary

Site Status and Applicable Rules:

The Central Disposal Landfill (the Landfill) is an open facility owned and operated by Central Disposal Systems, Inc. The Landfill accepts municipal solid waste (MSW), construction and demolition debris, asbestos-containing waste, petroleum-contaminated soils, and non-hazardous special wastes subject to prior Special Waste Authorization(s) issued by the Iowa Department of Natural Resources (IDNR). The Landfill is not authorized to accept bulk liquids, wastes that exhibit free liquids, wastes that have toxic or hazardous properties (i.e., no hazardous wastes, as defined by Chapter 455B.411 of the Iowa Code), radioactive wastes, untreated medical waste, or whole tires.

The Landfill is located approximately three miles southwest of Lake Mills, Iowa, in Winnebago County (see **Figure 1**). Groundwater monitoring is conducted according to the requirements of 567 IAC Chapter 113.10 and Permit No. 95-SDP-01-72. Existing conditions of the Landfill are provided in **Figures 2** and **3** with the latter providing Landfill layout including existing and future phases and topography. The Landfill has a gas-to-energy facility on the northwest portion of the property which converts gas collected from the Landfill into energy by Caterpillar 3516 Engines.

Report Priority:

The priority for reviewing this report remains low and thus similar to prior annual reports. A low report priority designation is based on the fact that there have been no confirmed detections of volatile organic compounds (VOCs) in the groundwater monitoring well network, nor are there verified inorganic parameter detections above groundwater performance standards or statistical control limits that are currently attributable to the Landfill. It is also important to note that there are no groundwater receptors in the immediate vicinity of the Landfill and there are no corrective action activities on-going or needed at the Landfill.

Based on the extensive historical monitoring database, a revised Hydrologic Monitoring System Plan (2023 HMSP) was approved by IDNR email on December 8, 2023. The 2023 HMSP was incorporated into the December 8, 2023 revision to the Landfill's IDNR Sanitary Disposal Project Permit, and provides an annual sampling frequency for selected annual parameters (optimized statistical detection parameter used for intrawell statistical analyses and supplemental parameters). The 2023 HMSP also includes testing for the parameters listed in Iowa Administrative Code (IAC) 567 Chapter 113 Appendix I (i.e., metals and VOCs) on a periodic, once per three year schedule to augment the annual monitoring for selected annual parameters.

Period of Report Coverage:

Monitoring during 2025 was completed in accordance with the Landfill's 2023 HMSP and its IDNR approved modifications and the Landfill's Permit. The contents of this 2025 Annual Water Quality Report (2025 AWQR) are as follows.

- The 2025 AWQR provides a discussion of the water quality monitoring results collected at the Landfill during 2025.
- The 2025 Leachate Control System Performance Evaluation (LCSPE), attached as **Appendix A** to this report, addresses leachate management during 2025.
- The 2025 Landfill Gas Management Report, attached as **Appendix B** to this report, addresses landfill gas monitoring during 2025.

2025 Activities:

The following activities occurred at the Landfill in 2025:

- The IDNR provided comment on the Landfill's 2024 annual water quality report (2024 AWQR) in their letter dated March 17, 2025 (Document No. 112174). The Landfill responded to the IDNR's comments in the *IDNR Comments - 2024 Annual Water Quality Report*, dated April 11, 2025 (Document No. 112820).
- The IDNR provided comments on the submittal *GU-VIII-1 Secondary Evaluation Period Results*, dated April 30, 2025, in a letter dated May 21, 2025 (Document No. 112982). A response to IDNR comments regarding GU-VIII-1 (Document No. 112982) will be provided under separate cover.
- The first and second background monitoring events for GU-VIII-1 were completed on May 29, 2025, and November 11, 2025, respectively.
- The annual groundwater quality monitoring event was completed at the Landfill on November 3-4 and second mobilization on November 11, 2025 in order to sample GU-V-2 which was inaccessible during the initial November mobilization.
- The fifth and sixth background monitoring events were completed for wells MW-134, MW-135, and MW-136 on May 29, 2025, and November 4, 2025, respectively.
- The Landfill sealed monitoring well MW-11 and replaced it with MW-11R pursuant to the IDNR approved *2025 Monitoring Well Replacement Work Plan*, dated June 17, 2025. Documentation of the well work was submitted to the IDNR with the *2025 Monitoring Well Replacement Documentation Report Letter*, dated September 11, 2025.
- The first background monitoring event for MW-11R was completed on November 3, 2025.

The laboratory analytical reports for the above listed monitoring activities have not been formally submitted to the IDNR and are provided with this 2025 AWQR. Leachate analytical reports for leachate monitoring conducted in 2025 are provided with the 2025 LCSPE report which is attached to this report (see **Appendix A**).

1 Introduction

The Central Disposal Landfill (the Landfill) is located approximately three miles southwest of Lake Mills, Iowa, Portions of Section 16 and 21, Township 99N, Range 23W, Winnebago County. The Landfill property consists of 590 acres of which approximately 440 acres are permitted for solid waste activities. **Figure 1** illustrates the Landfill location and **Figures 2** and **3** provide an aerial view and topographic map of the facility, respectively; the latter includes a layout of existing and future landfilling phases.

1.1 Site Hydrogeologic Conditions

The hydrogeologic conditions associated with the Landfill have been established through the review of regional information and by the numerous site investigations, borings and well installations that have been completed at the Landfill. A brief discussion of the conditions at the Landfill are provided below.

Northern Iowa is characterized by a rolling terrain associated with glacial tills deposited as part of the Wisconsonian period of glaciation, and more specifically the Algona Moraine of the Des Moines Lobe. The glacial till may have isolated water-bearing units, but these are typically of limited extent. The glacial tills overlie bedrock of the Cedar Valley Formation which is sedimentary carbonate rock (dolostone). On a regional scale, the uppermost aquifer defined as producing economic quantities of water is the Cedar Valley formation.

At the Landfill, two water-bearing zones have been identified and designated as the Perched Zone and the Monitorable Zone. The shallow Perched Zone is represented as near surface perched water found to occur unconformably in the transition zone between weathered and unweathered till at depths of approximately 10 to 15 feet. The unweathered till represents a relatively impermeable confining layer atop which the Perched Zone occurs. The Perched Zone contains limited quantities of water, is not continuous across the site, and may be represented as only localized and isolated perched areas with no defined flow direction. In portions of the site, soil borrow has eliminated some of these isolated perched zones. During drier climatic periods Perched Zone wells may be dry; similarly, under wet climatic conditions water may accumulate within a perched zone.

The Monitorable Zone occurs at an elevation of approximately ± 1,215 feet relative to the National Geodetic Vertical Datum (feet NGVD) and consists of a laterally extensive clayey sand layer within the unweathered glacial till with a thickness of roughly 5 to 10 feet. The lower hydraulic boundary to the Monitorable Zone is represented as a zone of till with a higher clay content. The Monitorable Zone has been identified at all drilling locations at the site that were advanced to sufficient depth. Site investigations have established that the Monitorable Zone is the hydrologic unit of interest for monitoring potential off-site migration of impacts via groundwater as it represents the nearest surface unit with sufficient permeability such that it can be reliably monitored. However, it is important to note that the Monitorable Zone, due to its moderate to low permeability, does not meet the definition of the uppermost aquifer and review of available water well records indicate that it is not used as a water supply in the area.

Groundwater within the Monitorable Zone is confined with up to 40 feet of confining head. The resulting depth to groundwater in wells screened in this unit is 30 and 60 feet below grade. Groundwater flow within the Monitorable Zone is primarily southerly for a majority of the site, but with a northern flow component for the northernmost portion of the site. Flow conditions in the Monitorable Zone may fluctuate to some degree in response to changes in this confined unit. While short term fluctuations can indicate differences in flow vector, the overall average flow condition is to the south-southwest. The apparent flow divide of the Monitorable Zone roughly corresponds with 430th Street, which separates the main Landfill operations to the south and the landfill gas-to-energy facility and northern leachate ponds on the north side of 430th Street.

The Des Moines Lobe glacial deposits typically provide poor to low yields for water supply and the extensive thickness and overall low permeability of the glacial deposits result in very slow groundwater movement both horizontally and vertically. These conditions significantly minimize potential impact to groundwater receptors from a potential release at the Landfill.

2 Hydrologic Monitoring System Plan

The November 2, 2023 Hydrologic Monitoring System Plan and additional information submitted December 6, 2023 (2023 HMSP) was approved by the Iowa Department of Natural Resources (IDNR) on December 6, 2023 and was incorporated into the Revised Landfill Permit dated December 8, 2023 which was most recently revised on February 27, 2024. The updated 2023 HMSP supersedes previous HMSPs from April 2008, July 2009 (revised), and July 2018.

The 2023 HMSP was prepared based on review of water quality data collected since 2009 and provides an optimized sampling frequency and parameter list in accordance with Iowa Administrative Code (IAC) Chapter 113.10(5-6). The 2023 HMSP defines a detection monitoring program that incorporates parameters with the highest concentration contrast to leachate (referred to herein as “optimized intrawell statistical detection parameters”) and supplemental parameters (collectively referred to as “selected annual parameters”), thus providing the best means of improving the performance of the statistical analyses program following Environmental Protection Agency (EPA) and ASTM guidance (ASTM D7045-04). Detection monitoring at the Landfill also includes sampling and analysis for the list of metals and volatile organic compounds (VOCs) identified in IAC 567 Chapter 113 Appendix I (referred to herein as “Appendix I parameters”), on a periodic, once per three-year schedule to augment the selected annual parameters list.

2.1 Groundwater Monitoring Network

The water quality monitoring network at the Landfill currently includes twelve (12) monitoring wells, each of which were installed by a licensed well contractor in accordance with IAC requirements. The monitoring network was most recently modified in August 2025 with the sealing of MW-11 and installation of replacement monitoring well MW-11R. MW-11 required sealing and replacement due to having been damaged the prior year. Prior to the aforementioned, the monitoring network was most recently modified to facilitate the construction of Phase VIII of the Landfill which consisted of sealing of wells MW-115, MW-130, and MW-131 and the installation of wells MW-134, MW-135, and MW-136 to augment the monitoring network. Each of these new monitoring wells are currently in background monitoring mode and, in accordance with the 2023 HMSP, will remain in background monitoring mode until the full eight sets of background data required by the statistical program have been collected. Semi-annual background monitoring of the new groundwater underdrain, GU-VIII-1, was also initiated in May 2025. The Landfill also has an additional eleven (11) monitoring wells utilized for static water level measurements only. It is noted that field notes from the 2025 Annual Monitoring event indicate that MW-101, a well utilized for static water level measurements only, had sustained damage and cannot currently be gauged for static water level. The Landfill is currently coordinating repairs and anticipate that repairs will be completed in spring 2026.

A construction summary for the Landfill’s existing groundwater monitoring well network, each well’s status (i.e., detection, assessment, or background), and each well’s hydraulic position relative to landfilled waste is presented in **Table 1**. The Landfill’s groundwater monitoring network is also illustrated on **Figures 2** and **3**.

2.2 Groundwater Sampling Frequency

The 2023 HMSP provides for a seasonally rotating annual monitoring schedule (excluding winter) in consideration of the relatively slow groundwater flow velocity at the site. The Landfill's monitoring program, as described in the 2023 HMSP and updated to account for recent changes to the monitoring network, is presented in **Table 2a**. The seasonally rotating annual monitoring schedule was initially developed as part of the 2018 HMSP, was initiated following approval of the 2018 HMSP and, at its initiation, was augmented by a few additional monitoring events (2018-2019) to accumulate additional background datasets for a few selected parameters.

Each of the Landfill's monitoring wells utilized for water quality evaluation are classified as either being in detection or assessment monitoring status. Detection monitoring at the Landfill consists of seasonally rotating annual groundwater sampling for the selected annual parameters and is augmented with sampling and analysis for Appendix I parameters on a once per three year basis as described in the 2023 HMSP (see **Table 2a**). Sampling for Appendix I parameters was most recently completed concurrent with the May 2023 monitoring event; as such, the next monitoring event scheduled to include the Appendix I parameters is scheduled for 2026.

Background monitoring for the new wells is ongoing and will continue to occur on a semi-annual basis in accordance with the IDNR-approved 2023 HMSP until the full eight sets of background data required for intrawell statistical evaluation have been collected. The background monitoring schedule and the tentative 2026 annual monitoring schedule is provided on **Table 2b**. A summary of the monitoring events as they were completed at the Landfill in 2025 is presented on **Table 3**.

2.2.1 Detection Monitoring

As noted above, Detection monitoring at the Landfill occurs pursuant to the seasonally rotating annual schedule for the selected annual parameters as described in the 2023 HMSP. Detection monitoring is augmented with sampling for Appendix I parameters on a once per three year basis. Detection monitoring results are compared to published groundwater quality standards (e.g., EPA Maximum Contaminant Levels [MCL] and/or IDNR Groundwater Performance Standards [GWPS]). The intrawell statistical detection parameters are compared against statistical limits established according to the methods described in the 2023 HMSP and in the Otter Creek Environmental Services, LLC (Otter Creek) statistical reports. The intent of statistical analysis is to identify at the earliest indication changes in water quality that may be indicative of a potential leachate release. Collection of background monitoring data (minimum of eight data sets) is required for the statistical program. With the exception of newly installed monitoring wells MW-11R, MW-134, MW-135, and MW-136 the full complement of background data has been collected for all monitoring wells utilized for water quality monitoring. It is noted that the Landfill's Phase VIII groundwater underdrain (GU-VIII-1) also remains in background data collection mode at this time.

New monitoring wells MW-134, MW-135, and MW-136 were installed in May and June 2023 in accordance with the IDNR approved *Proposed Groundwater Monitoring Network Revisions* letter dated July 28, 2022. New monitoring well MW-11R was installed in August 2025 in accordance with the IDNR approved *2025*

Monitoring Well Replacement Work Plan dated June 17, 2025. Semi-annual background monitoring of the GU-VIII-1 was initiated in May 2025 in accordance with the GU-VIII-1 Secondary Evaluation Period Results letter dated April 30, 2025. Consistent with the statistical procedures implemented for the Landfill, eight sets of background groundwater quality data consisting of the selected annual parameters and Appendix I parameters will be collected. Collection of the background data for the new wells and GU-VIII-1, has, and will continue to occur on a semi-annual basis in accordance with the 2023 HMSP. Once eight sets of background groundwater quality data has been collected for each of the new locations they will be incorporated into the annual Detection monitoring schedule and sampled annually for the approved selected annual parameter list, and, for Appendix I parameters on a periodic, once per three-year schedule.

2.2.2 Assessment Monitoring

Monitoring wells enter into Assessment status when there has been a confirmed volatile organic compound (VOC) detection, or when there has been a confirmed statistical exceedance that is attributable to the Landfill. Assessment monitoring includes sampling and analysis for the parameters listed in IAC 567 Chapter 113 Appendix II (referred to herein as “Appendix II parameters”). Appendix II parameters consist of all Appendix I parameters, as well as, pesticides, herbicides, polychlorinated biphenyls (PCBs), semi-volatile organics, cyanide, mercury, sulfide, and tin.

There are no monitoring wells currently in Assessment status at the Landfill. However, monitoring wells MW-11, MW-115, MW-130, MW-131, MW-132, MW-133 had each previously undergone a minimum of two rounds of Assessment monitoring for Appendix II parameters, largely in response to statistical exceedances of arsenic that have since proven to be reflective of natural water quality variability. Collectively, there have been no confirmed detections of any parameters specific to only the Appendix II parameters list.

2.3 Monitoring Well Performance Evaluation

Evaluation of well conditions are conducted periodically in accordance with the 2023 HMSP and IAC Chapter 113.10(2)”f”. Performance evaluations are conducted to ensure that each well provides samples representative of the screened groundwater interval. The principal components evaluated include the following:

- A biennial examination of high and low water levels as well as a discussion of the validity of the well location both vertically and horizontally. The discussion will also include an analysis of the exposure of the screened interval to the atmosphere.
- A biennial evaluation water level conditions in the monitoring wells to ensure that the effects of waste disposal or well operation have not resulted in changes in the hydrogeologic setting and resultant flow paths.
- Measurements of well depths in wells with no dedicated sampling equipment will be taken annually and every five years for wells containing dedicated sampling equipment to ensure that the wells are physically intact and not filling with sediment.
- Biennially, the well recharge rates and chemistry will be evaluated to determine if the well is deteriorating.

The monitoring wells that are utilized for water quality sampling at the Landfill are screened in the "monitorable zone" with screened intervals that are not intended to intersect or cross the water table. Therefore, evaluation of screened interval in relation to the water table as required by IAC 113.10(2)"f"(1) is not applicable to this site-specific water quality monitoring network. In addition, the low-permeability glacial sediments in which the wells are screened may unavoidably yield samples that contain varying amounts of fine-grained sediment. To minimize sediment in well samples, dedicated QED Well Wizard ® bladder pumps (model number P-110-1S) are used along with micro-purge sampling procedures. The dedicated bladder pumps continued to operate as intended in 2025.

Monitoring well performance evaluations were most recently conducted concurrent with the July 2024 monitoring event. Updated turbidity and suspended solids data for 2025 is provided in **Table 4A** and a summary of previously completed well performance evaluations, including well depth measurements, purge, and recovery rates, is provided in **Table 4B**. The next monitoring well performance evaluation will be conducted concurrent with the 2026 annual monitoring event. Total depth measurements for wells with dedicated sampling pumps will next be collected in 2029.

The monitoring well characteristics through 2025 are summarized below and indicate the monitoring network provides for accurate determination of water quality and allows for early detection and response to a potential release.

567 IAC 113.10(2)"f"(1) - high and low water levels.

- As noted above, this aspect of well performance evaluation is not applicable to the site-specific monitoring network at the Landfill. Monitoring well depths and screen positions are properly positioned vertically to account for fluctuations in groundwater elevation that occur naturally within the monitorable zone.

567 IAC 113.10(2)"f"(2) – changes in the hydrogeologic setting and flow path.

- This is completed on an annual basis at the site. Groundwater elevation information indicates groundwater flow to be consistent with that which has previously been determined. This indicates the monitoring wells are properly situated horizontally with respect to groundwater flow and landfill phases.

567 IAC 113.10(2)"f"(3) – well depths.

- Well depth measurements have been collected periodically, as stipulated by IAC regulations and the Landfill's HMSP, and were most recently measured during the July 2024 event.
- Measurement of well depths indicate that siltation into wells has not affected the usefulness of the wells for sample collection which use dedicated bladder pumps and micro purge sampling methods that minimize sedimentation potential.
- Pursuant with the 2023 HMSP, well depth measurements at monitoring wells which have dedicated sampling equipment will next occur in 2029.

567 IAC 113.10(2)"f"(3) – well recharge rates and chemistry.

- Well recharge rates were most recently calculated as a part of the July 2024 monitoring event, in accordance with the biennial schedule outlined in the 2023 HMSP.
- Well chemistry is recorded on an annual basis.
- The purge rate used by the dedicated bladder pumps has remained consistent indicating that well yield, as it is necessary for sample collection, remains adequate.
- The dedicated sampling equipment remains in good condition to provide water quality samples representative of groundwater conditions.
- Well chemistry has not varied to the extent which would suggest well deterioration.
- The physical condition of each well, aside from MW-101, remain in good physical condition at the surface (well casing, protective casing, barrier posts). MW-101 sustained damage to its outer/inner casing in 2025. The Landfill is coordinating repairs and anticipates that the well will be repaired in spring 2026.

113.6(2)"I" – waste separation from groundwater.

- The design and operation of the groundwater underdrains GU-V-2 and GU-VIII-1 is addressed in *Sections 2.4*, *3.6*, and *3.7* of this report.

2.4 Groundwater Underdrains

Groundwater underdrains are operated at the Landfill in order to ensure that the minimum five-foot separation distance between the liner and groundwater is maintained. The Landfill currently operates two groundwater underdrains, GU-V-2 and GU-VIII-1. GU-V-2 is located beneath Phase V of Cell 2 of the Landfill and was installed in August 2012. GU-VIII-1 is located beneath Phase VIII of the Landfill and was installed in November 2022. It is important to note that the Landfill's underdrains are not points-of-compliance and were not installed as monitoring locations as neither the equipment nor materials used for construction are cleaned in the fashion of a monitoring well. Groundwater underdrains are often dry at the time of installation, but may accumulate stormwater during and post-construction. Water evacuated from the Landfill's groundwater underdrains is discharged and managed as surface water.

2.4.1 GU-V-2

GU-V-2 was initially dry at the time of installation and water was first found to be present in September 2012. Initial sampling results identified a number of VOC detections. An alternative source demonstration (ASD) indicated that the detections were not leachate related, but likely the result of incidental fuel-related sources from construction activities. Subsequent monitoring occurred semi-annually through 2017 with results indicating a significant decrease in VOC detections to the point that none were detected in 2015, 2016, or 2017. Since 2018, monitoring of GU-V-2 has occurred annually in accordance with the 2018 HMSP, and most recently, the 2023 HMSP which include testing for VOCs on a once per three years basis. No VOCs were detected in 2020 or 2023. A historical summary of VOC results for GU-V-2 is provided in

Table 9. Cumulatively, the monitoring data indicates that the past VOC detections in GU-V-2 were not associated with Landfill leachate. The 2025 GU-V-2 sampling results are discussed in *Section 3.6*.

Operation of GU-V-2 is conducted by the Landfill and was refined in 2016 and discussed in detail in the *2016 Annual Water Quality Report*. The discharge operation incorporates the use of a pump, discharge hose, flow meter, pressure gauge and airline. An optimal pump run time of roughly one hour per day was established in 2016 and continued to be sufficient to evacuate water that may have accumulated, ensuring the required five-foot separation distance was maintained through 2021. Yearly GU-V-2 discharge volumes have continued to decrease since 2016. The optimal pump run time was reduced to roughly one hour per week in 2022 and continued in this manner through 2023; this reduced run time proved sufficient to evacuate what little water may have accumulated during the week to ensure the required five-foot separation distance between water level and waste was maintained through 2023. Beginning in 2024 and continuing through 2025, the pump was set to run automatically so that any water that accumulated in the underdrain was automatically evacuated, as necessary, in order to continuously maintain the required five-foot separation distance between water level and waste throughout 2025.

2.4.2 GU-VIII-1

GU-VIII-1 was initially dry at the time of installation, however, as has been the case with other underdrains, stormwater that accumulated during construction was observed in GU-VIII-1 post-construction. Pursuant to the protocols detailed in the 2023 HMSP, GU-VIII-1 underwent a three-month evaluation period. During this period, weekly pumping of the underdrain was proposed to occur so that construction-related stormwater could be evacuated and average flows calculated. The weekly underdrain discharge volumes were to be recorded and evaluated at the end of the three-month evaluation period. The intent of this evaluation period was to determine whether or not monitorable quantities of groundwater are present within GU-VIII-1 following the successful evacuation of any construction-related stormwater. Per the 2023 HMSP, monitorable quantities included at least five additional gallons once the lysimeter and associated piping infrastructure has been purged. The results from this initial evaluation period at GU-VIII-1 were inconclusive and ultimately did not satisfy the goal of determining if GU-VIII-1 was monitorable.

The Landfill discussed the underdrain evaluation with the IDNR via phone call on October 30, 2024 and follow up email on October 31, 2024. The aforementioned correspondence proposed a second three-month evaluation period in which the Landfill would purge GU-VIII-1 and then record the amount of time it takes for the underdrain to recharge and fill a five-gallon bucket (monitorable quantity) once per week. When not conducting the weekly testing the underdrain pump is set to run automatically so that any water that accumulates in the underdrain is automatically evacuated, as necessary, in order to continuously maintain the required five-foot separation distance between water level and waste. This proposed plan was approved by the IDNR via email on October 31, 2024. As proposed, the secondary evaluation period began in December 2024, concluded on March 11, 2025, and results were provided to the IDNR in the *GU-VIII-1 Secondary Evaluation Period Results* letter dated April 30, 2025 (the Evaluation Letter). The results from the second evaluation period indicate that underdrain GU-VIII-1 most often yields monitorable quantities of water post purging, thus, is considered monitorable.

Pursuant to the 2023 HMSP and the Evaluation Letter, semi-annual background monitoring of GU-VIII-1 consisting of the full list of Detection monitoring parameters (i.e., Appendix I and the selected annual parameters) was initiated in May 2025 and will continue until eight sets of background data have been collected. The background monitoring schedule is provided on **Table 2b**. According to the 2023 HMSP, monitorable quantities include at least 5 additional gallons once the lysimeter and associated piping infrastructure has been purged. During each GU-VIII-1 sampling events, the underdrain and associated piping infrastructure is purged dry, then following the initial purge, at least five additional gallons of water is purged prior to sample collection. If monitorable quantities of water are not present in GU-VIII-1 during a given event then a sample will not be collected in which case GU-VIII-1 will then be checked during the next regularly scheduled monitoring event and sampled if monitorable quantities of water are present. If necessary, additional semi-annual background events will be scheduled and conducted until the full 8 sets of background data required for statistical program are obtained. Once the background data set is complete, assuming no leachate impacts are identified, underdrain GU-VIII-1 will be incorporated into the Detection monitoring schedule consisting of annual sampling for selected annual parameters augmented with sampling for Appendix I parameters on a periodic once per three year basis, and the statistical program consisting of annual evaluation of optimized statistical detection parameter results through intrawell statistics.

In 2025, the GU-VIII-1 pump was set to run automatically so that any water that accumulated in the underdrain was automatically evacuated, as necessary, in order to continuously maintain the required five-foot separation distance between water level and waste throughout 2025. Semi-annual background monitoring for GU-VIII-1, in accordance with the above, was completed in May and November 2025 and the results are discussed in *Section 3.7*.

The IDNR provided comments on the Evaluation Letter in a letter dated May 21, 2025. Response to the IDNR May 21, 2025 comments is forthcoming under separate cover.

3 2025 Data Evaluation and Summary

Monitoring activities conducted in 2025 were performed in accordance with the approved 2023 HMSP and IDNR approved updates as shown on **Table 2a**. Background monitoring events completed to date for the monitoring wells that remain in background monitoring data collection mode and GU-VIII-1 are summarized on **Table 2b**. Sample collection was conducted by Alliance Technical Group (Alliance) of Circle Pines, Minnesota. Sample analysis was conducted by Pace Analytical National Laboratories (PAN) of Mt. Juliet, Tennessee.

The 2025 annual Detection monitoring event was conducted on November 3 and 4, 2025 and a second mobilization on November 11, 2025 (November 2025 event). The fifth and sixth background monitoring events for monitoring wells MW-134, MW-135, and MW-136 were conducted on May 29, 2025 and November 4, 2025 respectively. The first and second background monitoring events for GU-VIII-1 were completed on May 29, 2025, and November 11, 2025, respectively. The first background monitoring event for MW-11R was completed on November 3, 2025. The monitoring events completed in 2025 are summarized on **Table 3**.

It is noted that static water levels were not recorded for monitoring wells MW-101 and MW-112 during the November 2025 event. A static water level was not measured for MW-101 as the well was observed to be damaged while the field sampler inadvertently missed measuring the static water level at MW-112. The Landfill is coordinating repairs for MW-101 and the field sampler has been made aware of the missed static water level for MW-112 and indicated that static water levels will be collected for all wells required during annual events moving forward. With minor exceptions noted above, all required monitoring locations and parameters were accounted for during the 2025 monitoring events in accordance with the 2023 HMSP and IDNR approved updates to the 2023 HMSP monitoring schedule (see **Tables 2a**, **2b**, and **3**).

The PAN laboratory reports for the November 2025 event are provided in **Appendix C**. The statistical report as prepared by Otter Creek is presented in **Appendix D**. The analytical reports for MW-134, MW-135, and MW-136 background monitoring fifth (May 2025) and sixth event (November 2025) are provided in **Appendix E**. Analytical reports for the first and second background events for GU-VIII-1 and the first background monitoring event for MW-11R are also provided in **Appendix E**.

3.1 Groundwater Elevation Data

A groundwater elevation data summary is provided as **Table 5**. Groundwater elevations for the November 2025 event were comparable to those recorded during prior events and, with few exceptions, all recorded groundwater elevations were within each well's historical range. The few exceptions were noted at recently installed wells MW-134, MW-135, and MW-136 and MW-121 where the November 2025 groundwater elevations are slightly higher than historical. A groundwater contour map generated from the elevations measured during the November 2025 event is presented as **Figure 4**. The interpreted groundwater contours remain similar to previous determinations indicating a predominant southerly flow direction. As

there is no indication of change in groundwater flow conditions, the existing monitoring wells remain properly situated to monitor for potential releases from the Landfill.

3.2 Quality Assurance/Quality Control (QA/QC)

Each monitoring event completed in 2025 utilized standard field and laboratory quality assurance and quality control (QA/QC) procedures to generate data that accurately reflects the individual samples collected. Field procedures include use of dedicated and/or disposable equipment as appropriate, proper sample collection and preservation methods, and shipment of collected samples via overnight courier under chain-of-custody protocol. Laboratory QA/QC methods begin with sample login and continue with sample preparation and analyses in controlled environments and within specified timeframes. Laboratory QA/QC samples are prepared for instrument calibration as method blanks, matrix spikes and duplicates. Results of the method blanks, matrix spikes, surrogate recoveries, etc. were within acceptable limits, indicating the laboratory data is valid. Trip blanks were prepared and analyzed for VOCs during the background monitoring events; with the exception of the May 29, 2025 GU-VIII-1 background monitoring event no VOCs were detected in the trip blank samples associated with the 2025 background monitoring events.

Acetone was detected at a concentration of 28.0 ug/L in the trip blank prepared for the May 2025 GU-VIII-1 background event. It is noted that acetone was detected at a lower concentration of 3.4 ug/L in the May 2025 GU-VIII-1 sample. PAN completed a data quality review of the results and did not identify any issues with the reported results, however, PAN noted that acetone is a common laboratory artifact, and that the data is appropriately qualified. It is also noted that acetone is a common laboratory contaminant. The unconfirmed acetone results are believed to be the result of laboratory interference.

3.3 Annual Detection Monitoring

The November 2025 event consisted of sampling and analysis for the selected annual parameters, in accordance with the 2023 HMSP. The selected annual parameters consist of the optimized statistical detection parameter used for intrawell statistical evaluation and the supplemental parameters (see **Table 2a**). The detection monitoring program is augmented with sampling and analysis for Appendix I parameters on a periodic once per three year basis.

Selected annual parameters results from 2018 through the November 2025 event are provided in **Table 6**. Results from the November 2025 event are generally consistent with historical results for respective individual well locations and none of the results exceed their respective water quality standards (MCL/GWPS).

3.3.1 Appendix I Parameters

As noted above, the 2023 HMSP provides for testing of Appendix I parameters on a once per three year basis. Appendix I parameters were last sampled for during the May 2023 event and are next scheduled for 2026. A summary of historical Appendix I results for metals and VOCs, inclusive of 2025 background monitoring data, are presented in **Tables 7** and **8**, respectively.

3.4 Statistical Analysis

Statistical groundwater quality analysis is required by IAC 567, Chapter 113.10(4) to identify the earliest indication of changes in water quality that may be indicative of either normal ambient variability or a potential leachate release from the Landfill. Otter Creek provides the intrawell statistical analyses of the collected data. In accordance with the 2023 HMSP, the background data set for each well (except for the four new wells) has been updated to incorporate optimized intrawell statistical detection parameter results through May 2023. The statistical report for the November 2025 event is provided in **Appendix D**. The statistical report includes a discussion of the statistical methods, water quality data tabulations, control limits, intrawell control charts, and time-series charts for supplemental parameters. The statistical report for the November 2025 event does not identify any verified or unverified intrawell statistical exceedances.

3.5 Assessment Monitoring

As noted in *Section 2.2*, monitoring wells enter into Assessment status when there has been a confirmed VOC detection, or when there is a confirmed statistical exceedance that is attributable to the Landfill. There are no wells at the Landfill currently in Assessment status; however, monitoring wells MW-11, MW-115, MW-130, MW-131, MW-132, MW-133 had previously undergone a minimum of two rounds of testing for Assessment monitoring parameters. Assessment monitoring at these locations was initiated largely in response to statistical exceedances of arsenic that have since proven to be reflective of natural water quality variability. Therefore, because there have been no confirmed VOC detections, GWPS/MCL exceedances, or verified statistical control limit exceedances attributable to the Landfill, each of these wells met the requirements of 113.10(6)e and g.4(2) and returned to Detection status. Monitoring wells MW-132 and MW-133 remain in Detection status. As mentioned in previous sections, monitoring wells MW-115, MW-130, and MW-131 were sealed in August 2022, and monitoring well MW-11 was sealed in August 2025.

While the wells were in Assessment status, Appendix II parameter data was collected. None of the parameters specific to only the Appendix II list were detected during the completed Assessment monitoring events. An abbreviated summary of the analytical results of the Assessment monitoring events is provided in **Appendix F**. A comprehensive summary of all Appendix II results was last provided to the IDNR with the *2017 Annual Water Quality Report* for the Landfill, dated January 30, 2018.

3.6 2025 GU-V-2 Data

GU-V-2 was sampled during the November 2025 event and analyzed for selected annual parameters. Sampling of GU-V-2 for Appendix I parameters was most recently conducted during the May 2023 monitoring event and is next scheduled for 2026. A summary of selected annual detection data collected from GU-V-2 from 2018 through 2025 is provided in **Table 6**, historical Appendix I metals data for GU-V-2 is included in **Table 7**, and a historical summary of VOC detections in GU-V-2 is provided on **Table 9**. None of the November 2025 GU-V-2 results exceed water quality standards or intrawell statistical control limits. The November 2025 GU-V-2 results are not indicative of leachate influence as has been the case historically.

Operation (pumping and discharging) of GU-V-2 during 2025 is described in *Section 2.4.1*. Water evacuated from GU-V-2 continues to be managed as surface water. Flow meter readings for 2025 are not available due to staff turnover, however, it is noted that Landfill staff observed discharge occurring from GU-V-2 in 2025 indicating that the automated pumping system continued to operate as intended ensuring that the required five-foot separation distance between water level and waste was maintained through 2025.

3.7 GU-VIII-I Background Monitoring Results

The first and second background monitoring events for GU-VIII-1 were completed on May 29, 2025, and November 11, 2025, respectively.

Background monitoring for GU-VIII-1 includes the full list of Detection monitoring parameters (i.e., Appendix I parameters and selected annual parameters), in accordance with the 2023 HMSP. Analytical results for selected annual parameters, Appendix I metals, and Appendix I VOCs are summarized along with results from the Landfill's monitoring wells in **Tables 6**, **7**, and **8**, respectively. Trend charts tracking the background monitoring results for GU-VIII-1 through the second background monitoring event were prepared by Otter Creek and are provided in **Appendix D**. The analytical laboratory reports for the two 2025 semi-annual background monitoring events are provided in **Appendix E**.

The May 2025 results identify an unconfirmed low level acetone detection of 3.4 ug/L. Acetone was detected at a higher concentration of 28 ug/L in the associated trip blank sample. PAN completed a data quality review of the results and did not identify any issues with the reported results, however, PAN noted that acetone is a common laboratory artifact, and that the data is appropriately qualified. It is also noted that acetone is a common laboratory contaminant. The unconfirmed acetone results is believed to be the result of laboratory interference. There were no VOCs detected in the November 2025 GU-VIII-1 sample.

Both the May and November 2025 cobalt results of 0.00606 mg/L and 0.00492 mg/L are above the IDNR GWPS of 0.0021 mg/L for cobalt, however, the results are within the range of cobalt concentrations detected in upgradient monitoring well MW-2A, thus appear reflective of naturally occurring ambient water quality. There were no other parameters detected in the May or November 2025 GU-VIII-1 samples at concentrations above respective water quality standards. Arsenic, barium and nickel were the only other Appendix I metals parameters detected in GU-VIII-1 in 2025 and the results are within the range of those seen historically at upgradient monitoring wells, thus appear representative of naturally occurring ambient water quality.

Operation (pumping and discharging) of GU-VIII-1 during 2025 is described in *Section 2.4.2*. Water evacuated from GU-VIII-1 continues to be managed as surface water. The automated pumping system continued to operate as intended ensuring that the required five-foot separation distance between water level and waste was maintained through 2025. In 2025 the GU-VIII-1 pump ran for a total of 6.86 hours at a rate of 38 gallons per minute equating to a total of approximately 15,640 gallons pumped from GU-VIII-1 and discharged to the surface.

3.8 Monitoring Well Background Monitoring Results

The fifth and sixth rounds of background monitoring at monitoring wells MW-134, MW-135, and MW-136 took place on May 29, 2025 and November 4, 2025 respectively. The first round of background monitoring at monitoring well MW-11R took place on November 3, 2025. Background monitoring for these wells includes the full list of Detection monitoring parameters (i.e., Appendix I parameters and selected annual parameters), in accordance with the 2023 HMSP. Analytical results for selected annual parameters, Appendix I metals, and Appendix I VOCs are summarized along with results from the Landfill's other wells in **Tables 6**, **7**, and **8**, respectively. Trend charts tracking the background monitoring results for the new wells collected through their respective background monitoring periods to date were prepared by Otter Creek and are provided in **Appendix D**.

No VOC detections were reported for any of the 2025 background monitoring events. Through the sixth background monitoring event a number of metals (arsenic, barium, chromium, copper, lead, nickel, vanadium, and zinc) have been detected in the monitoring wells MW-134, MW-135, and MW-136 at concentrations above their respective reporting limits. The only parameter reported above its water quality standard in 2025 was arsenic in MW-134 during both the fifth and six background monitoring events. For MW-11R, the only Appendix I metal parameters detected were arsenic, barium, and nickel, and in each case the concentration is similar to those detected at the well it replaced (MW-11). The arsenic result is above the MCL, however, is lower than those detected in the well MW-11R replaced (MW-11) and is lower than historical arsenic concentrations previously detected in upgradient monitoring well MW-123.

The aforementioned arsenic results are within the range of those previously detected in other wells in the Landfill's monitoring system, including upgradient well MW-123 and distant downgradient wells (MW-117 and MW-118) which are believed to be representative of ambient water quality based on their proximity to the Landfill. It is also noted that, arsenic has previously been documented to be naturally occurring at the Landfill at levels above the water quality standard as documented in the 2012 ASD. Based on comparison to monitoring results from other wells at the Landfill, background monitoring results for the four new wells continue to be representative of background water quality (i.e., non-landfill affected, ambient groundwater conditions).

Consistent with the statistical procedures implemented for the site, eight sets of background groundwater quality data for selected annual parameters and Appendix I parameters will be collected at the new wells. Collection of the background data will continue to occur on a semi-annual basis, as previously discussed with the IDNR. Sample collection and laboratory analyses will continue to follow the established procedures implemented by Alliance and PAN, respectively. Once eight sets of background groundwater quality data have been collected for each of the new monitoring wells, they will be incorporated into the annual monitoring schedule and sampled annually for selected annual parameters, and for Appendix I parameters on a periodic, once per three-year basis.

4 2026 Monitoring Schedule

The annual Detection monitoring schedule and the background monitoring schedule for 2026 is provided on **Table 2b**. The annual Detection monitoring for 2026 is scheduled to occur in the spring and will include testing for selected annual parameters and Appendix I parameters. The four new monitoring wells (MW-11R, MW-134, MW-135, and MW-136) and the new groundwater underdrain GU-VIII-1 will continue to be sampled semi-annually in accordance with 2023 HMSP and the background monitoring schedule provided on **Table 2b**, which has been updated to account for new well MW-11R and new groundwater underdrain GU-VIII-1.

Leachate monitoring will also be completed in 2026 to comply with the needs of the leachate treatment agreements with Mason City, Iowa, and Albert Lea, Minnesota. An annual NPDES stormwater sample is anticipated to be collected in the spring of 2026, if conditions permit. Modification to the monitoring schedule may be made in response to data review or in accordance with modified schedules approved by the IDNR.

5 Conclusions and Recommendations

1. The November 2025 annual event and 2025 background monitoring events were completed in accordance with the 2023 HMSP, IDNR approved updates, and the current Landfill Permit. With the minor exceptions noted in *Section 3*, all monitoring locations and parameters were accounted for during the November 2025 annual Detection monitoring event and the May and November 2025 background monitoring events.

2. In accordance with the IDNR approved updated 2023 HMSP background monitoring schedule (see **Table 2b**), semi-annual background monitoring events for GU-VIII-1 and the new wells (MW-134, MW-135, and MW-136) were completed in May and November 2025.

3. In accordance with the IDNR approved work plan, monitoring well MW-11 was abandoned and replaced by MW-11R in August 2025. In accordance the documentation letter report and the updated background monitoring schedule, the first background monitoring event for MW-11R was completed in November 2025.

4. There were no inorganic parameter detections above water quality standards attributable to the Landfill in 2025. Background monitoring results for the new wells remains consistent with naturally occurring background groundwater quality conditions.

5. To date, there have been no confirmed VOC detections in the groundwater well monitoring network which is consistent with historical data and indicates no releases to groundwater have occurred at this site.

6. There were no verified or unverified intrawell statistical exceedances identified in the statistical report prepared for the November 2025 event.

7. The monitoring wells remain properly situated and, with the exception of MW-101, in acceptable condition. The Landfill is coordinating repairs for MW-101 and anticipates repairs to occur in spring of 2026.

8. Monitoring well performance evaluation will be completed in 2026 in accordance with the schedule outlined in the 2023 HMSP.

9. Cumulatively, Detection monitoring data, statistical analyses, and historical Assessment monitoring data indicate that a confirmed landfill release has not occurred, and that there continues to be no risk to any off-site receptors.

10. The operation and monitoring results of GU-V-2 in 2025, as described in *Section 2.4.1* and *Section 3.6,* respectively, effectively maintains the required five-foot separation distance between water level and waste. Operation of GU-V-2 is proposed to continue in this manner in 2026 with the evacuated water managed as surface discharge.

11. With exception of cobalt, which is within the range of upgradient concentrations, background monitoring results for GU-VIII-1 do not exceed water quality standards.

12. The operation and monitoring results for GU-VIII-1 in 2025, as described in *Section 2.4.2* and *Section 3.7*, respectively, effectively maintains the required five-foot separation distance between water level and waste. Operation of GU-VIII-1 is proposed to continue in this manner in 2026 with the evacuated water managed as surface discharge.

13. A response to the IDNR GU-VIII-1 comments letter (Document No. 112982) will be provided under separate cover.

14. Annual Detection and semi-annual background monitoring in 2026 will follow the IDNR approved 2023 HMSP monitoring schedule which has been updated to account for new monitoring well MW-11R and the new groundwater underdrain GU-VIII-1 and is provided on **Table 2b**.

6 References

James M. Montgomery Consulting Engineers, Inc., “Hydrogeologic Investigation at the Winnebago County Sanitary Landfill.” March 1990.

James M. Montgomery Consulting Engineers, Inc., “Hydrogeologic Monitoring System Plan.” June 1992.

James M. Montgomery Consulting Engineers, Inc., “Revised Hydrogeologic Monitoring System Plan.” February 1993.

Woodward-Clyde Consultants, “Well Development Report.” August 1993.

Woodward-Clyde Consultants, “Hydrologic Investigation Report.” 1994.

Woodward-Clyde Consultants, “Groundwater Quality Assessment Plan.” June 1994.

Pachernegg-Knight, “Technical Memorandum to Woodward-Clyde from Sheila Pachernegg, Hydrogeologist.” January 1995.

Woodward-Clyde Consultants, “Groundwater Quality Assessment Report.” February 1995.

Wenck Associates, Inc., “Supplemental Hydrogeologic Investigation Report.” August 1995.

Wenck Associates, Inc., “Hydrologic Monitoring System for the Winnebago County Sanitary Landfill.” August 1995.

Wenck Associates, Inc., “Phase IV, Cell 1 Supplemental Hydrogeologic Investigation Report.,” April 1997.

Wenck Associates, Inc., “1998 Hydrologic Monitoring and Leachate Management System Effectiveness Report,” December 1998 (boring logs & well installation of 4 monitoring wells, and sealing records of 19 wells).

Wenck Associates, Inc., “Hydrologic Monitoring System Plan” April 2008, Revised July 2009.

Wenck Associates, Inc., “Monitoring Well Installation Documentation” November 4, 2009 letter to IDNR (well installation of 4 monitoring wells, & sealing of 12 monitoring wells).

Wenck Associates, Inc. “Landfill Gas Monitoring Plan.” September 26, 2016.

Wenck Associates, Inc. “Hydrologic Monitoring System Plan.” July 2018.

Stantec Consulting Services Inc., “Notice of Well Plugging” August 29, 2022 (sealing of 3 monitoring wells).

Stantec Consulting Services Inc., “Monitoring Well Installation Documentation Letter Report” September 1, 2023 letter to IDNR (installation of 3 monitoring wells).

Stantec Consulting Services, Inc. “Hydrologic Monitoring System Plan.” November 2, 2023.

Tables

Table 1 - Groundwater Monitoring Network

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Well ID	Date Installed	Date Sealed	Drilling Company	Well Status	Well Position (Relative to waste)	Dedicated Bladder Pump (Yes/No)	Ground Elevation (Ft. NGVD)	TOC Elevation (Ft. NGVD)	Well Depth (Ft. from TOC)	Well Diameter / Material	Screen Length / Material	Slot Size	Approximate Depth to Water (ft. below TOC)	Approximate Boring Depth (ft)
MW-2A	1995	N/A	AET	WQ / Detection	Upgradient	Yes	1,278.3	1,281.05	78.4	2" / PVC	10' / PVC	#10 slot	37.5	75.4
MW-7A	1998	N/A	AET	WQ / Detection	Downgradient	Yes	1,292.4	1,294.94	97.5	2" / PVC	10' / PVC	#10 slot	62.0	99.0
MW-11 (PZ-11)	1989	8/13/2025	J&R	Sealed	Downgradient	Yes	1,274.9	1,277.65	73.8	2" / PVC	10' / PVC	#10 slot	48.0	73
MW-11R	2025	N/A	Midwestern	Background	Downgradient	Yes	1,276.5	1,279.53	72.0	2" / PVC	10' / PVC	#10 slot	50.1	73
MW-101	1995	N/A	AET	SWL	Up- to Side-gradient	No	1,289.4	1,292.09	82.5	2" / PVC	10' / PVC	#10 slot	59.0	80.5
MW-104	1995	N/A	AET	SWL	Down- to Side-gradient	No	1,270.4	1,272.16	82.5	2" / PVC	10' / PVC	#10 slot	41.5	80.0
MW-110	1995	N/A	AET	WQ / Detection	Upgradient	Yes	1,288.9	1,291.32	75.6	2" / PVC	10' / PVC	#10 slot	56.5	75
MW-112	1996	N/A	AET	SWL	Down- to Side-gradient	No	1,286.0	1,287.89	82.1	2" / PVC	10' / PVC	#10 slot	57.8	79.8
MW-117	1999	N/A	Braun Intertec	WQ / Detection	Distant Downgradient	Yes	1,277.4	1,279.84	76.9	2" / PVC	10' / PVC	#10 slot	53.1	74.5
MW-118	1999	N/A	Braun Intertec	WQ / Detection	Distant Downgradient	Yes	1,281.6	1,284.56	95.4	2" / PVC	5' / PVC	#6 slot	58.8	92.0
MW-120	1999	N/A	Braun Intertec	SWL	Downgradient	No	1,276.4	1,278.86	62.5	2" / PVC	5' / PVC	#6 slot	49.9	72.0
MW-121	1999	N/A	Braun Intertec	SWL	Downgradient	No	1,272.5	1,275.65	105.2	2" / PVC	5' / PVC	#6 slot	48.5	102.0
MW-123	2003	N/A	Bergerson-Casewell	WQ / Detection	Upgradient	Yes	1,294.7	1,297.30	82.9	2" / PVC	5' / PVC	#6 slot	66.5	80.0
MW-132	2009	N/A	Traut Wells	WQ / Detection	Downgradient	Yes	1,256.0	1,259.32	42.5	2" / PVC	15' / PVC	#6 slot	28.0	60.0
MW-133	2009	N/A	Traut Wells	WQ / Detection	Downgradient	Yes	1,252.0	1,254.95	53.3	2" / PVC	15' / PVC	#6 slot	20.0	50.0
MW-134	2023	N/A	Midwestern	Background	Downgradient	Yes	1,259.5	1,261.83	59.8	2" / PVC	10' / PVC	#10 slot	32.0	58.0
MW-135	2023	N/A	Midwestern	Background	Downgradient	Yes	1,274.9	1,277.32	72.4	2" / PVC	10' / PVC	#10 slot	47.5	70.0
MW-136	2023	N/A	Midwestern	Background	Downgradient	Yes	1,272.1	1,274.63	80.5	2" / PVC	10' / PVC	#10 slot	18.0	78.0
P-15	1999	N/A	Braun Intertec	SWL	Upgradient	No	1,293.9	1,297.40	18.4	2" / PVC	10' / PVC	#6 slot	11.2	15.0
P-16	2003	N/A	Bergerson-Casewell	SWL	Upgradient	No	1,292.3	1,294.87	17.9	2" / PVC	10' / PVC	#6 slot	6.6	15.0
P-17	2003	N/A	Bergerson-Casewell	SWL	Upgradient	No	1,293.6	1,296.32	18.1	2" / PVC	10' / PVC	#6 slot	5.0	15.0
P-18	2003	N/A	Bergerson-Casewell	SWL	Upgradient	No	1,291.9	1,294.48	17.7	2" / PVC	10' / PVC	#6 slot	6.7	15.0
P-120S	1999	N/A	Braun Intertec	SWL	Downgradient	No	1,276.6	1,278.76	17.2	2" / PVC	10' / PVC	#6 slot	7.2	15.0
P-121S	1999	N/A	Braun Intertec	SWL	Downgradient	No	1,272.5	1,275.75	33.3	2" / PVC	10' / PVC	#6 slot	17.3	31.0

Notes:

WQ: Monitoring well utilized for groundwater quality monitoring, as required by Solid Waste Permit, its amendments, and the 2023 Hydrologic Monitoring System Plan (2023 HMSP)

- Detection = Monitoring well is in Detection status, per the 2023 HMSP
- Assessment = Monitoring well is in Assessment status, per 2023 HMSP
- Background = Monitoring well is in Background status, per 2023 HMSP

SWL: Monitoring location utilized for static water level measurements only

N/A = Not Applicable

TOC = Top of Casing

NGVD = National Geodetic Vertical Datum

Table 2a
Central Disposal Landfill
Permit No. 95-SDP-01-72
2023 HMSP Annual Monitoring Schedule
(Updated January 2026)

Location	Well Status	Location / Description	Annual Groundwater Event (rotating seasonal schedule)***	Semi Annual Background Monitoring Events (2023-2026)	GU-VIII-1 Semi Annual Background Monitoring Events (2025-2028)	MW-11R Semi Annual Background Monitoring Events (2025-2029)	Annual NPDES (Spring)	Leachate (per WWTP permts) Months (1,4,7,10)
MW-2A	Detection	Upgradient	Selected Annual Parameters	--	--	--	--	--
MW-7A	Detection	downgradient	Selected Annual Parameters	--	--	--	--	--
MW-11R[5]	Background	downgradient	-- [6]	--	--	Appendix I & Selected Annual Parameters	--	--
MW-110	Detection	Upgradient	Selected Annual Parameters	--	--	--	--	--
MW-117 *	Detection	distant downgradient	Selected Annual Parameters	--	--	--	--	--
MW-118 *	Detection	distant downgradient	Selected Annual Parameters	--	--	--	--	--
MW-123 *	Detection	Upgradient	Selected Annual Parameters	--	--	--	--	--
MW-132	Detection	downgradient	Selected Annual Parameters	--	--	--	--	--
MW-133	Detection	downgradient	Selected Annual Parameters	--	--	--	--	--
MW-134 [1]	Background	downgradient	-- [2]	Appendix I & Selected Annual Parameters	--	--	--	--
MW-135 [1]	Background	downgradient	-- [2]	Appendix I & Selected Annual Parameters	--	--	--	--
MW-136 [1]	Background	downgradient	-- [2]	Appendix I & Selected Annual Parameters	--	--	--	--
GU-V-2	groundwater underdrain	groundwater underdrain	Selected Annual Parameters	--	--	--	--	--
GU-VIII-1[3]	groundwater underdrain	groundwater underdrain	-- [4]	--	Appendix I & Selected Annual Parameters	--	--	--
Other wells **	WL only	various	WL	--	--	--	--	--
Outfall 1	NPDES	stormwater pond outlet	--	--	--	--	NPDES	--
Leachate (4 ponds)	--	--	Selected Annual Parameters	--	--	--	--	WWTP parameters

Explanation

• **Selected Annual Parameters (Optimized parameter list per July 2018 HMSP)**

-- **Intrawell Statistical Detection Parameters** = Ammonia, Chloride, Sodium, Alkalinity.

-- **Supplemental Parameters** = calcium, iron, magnesium, potassium, sulfate, Total dissolved solids (TDS) and Total Suspended Solids (TSS).

• **Appendix I Metals & VOCs** once per 3 years (completed in May 2020 and May 2023, next event 2026)

• **Appendix II** parameters per IDNR rules: (includes all Appendix I parameters *plus* pesticides, herbicides, PCBs, Semi-volatiles, & cyanide, mercury, sulfide and tin).

* = Well added to detection schedule beginning fall 2014 in accordance with Permit Amendment #5

** **Other wells** available for collecion of water elevation: MW-101, MW-104, MW-112, MW-112, MW-120, P120S, MW-121, P121S, P-15, P-16, P-17 and P-18

*** **Annual events** on a seasonal rotating schedule: 2023 April-May; 2024 June-July; 2025 Oct-Nov. Winter excluded. 2026 April-May; 2027 June-July; 2028 Oct-Nov. Winter Excluded. 2029 April-May; and so on

Appendix I inorganics (metals) and VOCs, every third year (Completed May 2023, next event 2026)

[1] = Monitoring wells MW-134, MW-135, and MW-136 installed May-June 2023

[2] = Monitoring wells MW-134, MW-135, and MW-136 to be incorporated into Annual Groundwater Event (rotating seasonal schedule) once the 8 rounds of background monitoirng have been completed (anticipated 2027)

[3] = New groundwater underdrain GU-VIII-1

[4] = GU-VIII-1 to be incorporated into the seasonally rotating annual monitoring schedule once the 8 rounds of background monitoring data required by the statistical program have been collected and evaluated (anticipated 2029)

[5] = Monitoring well MW-11R installed to replace sealed monitoring well MW-11 in August 2025

[6] = MW-11R to be incorporated into the seasonally rotating annual monitoring schedule once the 8 rounds of background monitoring data required by the statistical program have been collected and evaluated (anticipated 2030)

Leachate management system includes 4 ponds (Ponds 1, 2, 3 and 4); sample collection and analyses per wastewater treatment plant agreements on quarterly basis (List 1-quarterly parameters 4X per year) (List 2-semi-annual parameters 2X per year). Sample collection required during first month of given quarter per Mason City agreement.
Leachate samples may also be collected for selected annual parameters concurrent with Annual GW events (for statistical comparison as needed).
Current WWTP Agreements:
- Mason City, Iowa - Issued: 05/29/2024; Expires: 05/29/2027
- Northwood, Iowa - Issued: 10/01/2020; Expires: 2030
- Albert Lea, Minnesota - Issued: 01/01/2023; Expires: 12/31/2027

2023 HMSP

Updated April 2025 to include GU-VIII-1 & updated leachate WWTP agreement requirements

Updated January 2026 to account for sealing of MW-11 and installation of replacement well MW-11R

Stantec

Table 2b
2023 HMSP Background Monitoring Schedule
(Revised for GU-VIII-1 MW-11 Replacement)

Central Disposal Landfill - Lake Mills, IA
Permit No. 95-SDP-01-72

Monitoring Location	2023			2024			2025	2026		2027			2028		2029	2030
	Annual Event* **	**Background Event #1 (new wells)[1]**	**Background Event #2 (new wells)[1]**	**Background Event #3 (new wells)[1]**	**Annual Event*** **	**Background Event #4 (new wells)[1]**	**Annual Event*** & Background Event #6 (new wells)[1]**	**Annual Event*** & Background Event #7 (new wells)[1]**	**Background Event #8 (new wells)[1]**	**--**	**Annual Event*** **	**--**	**--**	**Annual Event*** **	**Annual Event*** **	**Annual Event*** **
	--	--	--	--	--	--	**Background Event #2 (GU-VIII-1)[3]**	**Background Event #3 (GU-VIII-1)[3]**	**Background Event #4 (GU-VIII-1)[3]**	**Background Event #5 (GU-VIII-1)[3]**	--	**Background Event #6 (GU-VIII-1)[3]**	**Background Event #7 (GU-VIII-1)[3]**	**Background Event #8 (GU-VIII-1)[3]**	--	--
							Annual Event* & Background Event #1 (MW-11R)[5]**	**Annual Event*** & Background Event #2 (MW-11R)[5]**	**Background Event #3 (MW-11R)[5]**	**Background Event #4 (MW-11R)[5]**	--	**Background Event #5 (MW-11R)[5]**	**Background Event #6 (MW-11R)[5]**	**Background Event #7 (MW-11R)[5]**	**Background Event #8 (MW-11R)[5]**	
	April-May 2023 (completed)	*May-June 2023 (completed)*	*October-November 2023 (completed)*	*April-May 2024 (completed)*	*June-July 2024 (completed)*	*October-November 2024*	*October-November 2025*	*April-May 2026*	*October-November 2026*	*April-May 2027*	*June-July 2027*	*October-November 2027*	*April-May 2028*	*October-November 2028*	*April-May 2029*	*June-July 2030*
MW-2A	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
MW-7A	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
MW-11[5]	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Sealed August 2025	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed
MW-11R[5]	--	--	--	--	--	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters[6]
MW-110	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
MW-117 *	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
MW-118 *	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
MW-123 *	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
MW-132	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
MW-133	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
MW-134 [1]	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Selected Annual Parameters [2]	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
MW-135 [1]	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Selected Annual Parameters [2]	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
MW-136 [1]	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Selected Annual Parameters [2]	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
GU-V-2	Appendix I & Selected Annual Parameters	--	--	--	Selected Annual Parameters	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	--	Selected Annual Parameters	--	--	Selected Annual Parameters	Appendix I & Selected Annual Parameters	Selected Annual Parameters
GU-VIII-1 [3]	--	--	--	--	--	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	--	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters	Appendix I & Selected Annual Parameters [4]	Selected Annual Parameters
Other wells **	WL	--	--	--	WL	--	WL	WL	--	--	WL	--	--	WL	WL	WL

Notes:

- **Selected Annual Parameters (Optimized parameter list per 2023 HMSP)**
  - -- **Intrawell Parameters Statistical Detection** = Ammonia, Chloride, Sodium, Alkalinity.
  - -- **Supplemental Parameters** = calcium, iron, magnesium, potassium, sulfate, TDS and TSS.
- **Appendix I Metals & VOCs** once per 3 years (completed in May 2020 and May 2023, next event 2026)
- * **Well added** to declection monitoring program fall 2014
- ** **Water Elevation wells**: MW-101, MW-104, MW-112, MW-120, P120S, MW-121, P121S, P-15, P-16, P-17 & P-18
- *** **Annual events on seasonal rotating schedule**: 2023 April-May; 2024 June-July; 2025 Oct-Nov. Winter excluded. 2026 April-May; 2027 June-July; 2028 Oct-Nov. Winter Excluded. 2029 April-May; and so on
- [1] = **New monitoring wells MW-134, MW-135, and MW-136 installed May-June 2023**
- [2] = **New monitoring wells are to be incorporated into the seasonally rotating annual monitoring schedule once the 8 rounds of background monitoring data required by the statistical program have been collected and evaluated.**
- [3] = **New groundwater underdrain GU-VIII-1**
- [4] = **GU-VIII-1 to be incorporated into the seasonally rotating annual monitoring schedule once the 8 rounds of background monitoring data required by the statistical program have been collected and evaluated.**
- [5] = **MW-11 sealed and replacement, MW-11R, installed August 2025**
- [6] = **MW-11R to be incorporated into the seasonally rotating annual monitoring schedule once the 8 rounds of background monitoring data required by the statistical program have been collected and evaluated.**

2023 HMSP - New Wells Backround Monitoring Schedule
Updated April 2025 to account for new groundwater underdrain GU-VIII-1
Updated Sept '25 for MW-11 Sealing and Replacement, MW-11R, background mon plan

Table 3 - 2025 Annual Monitoring Event Summary

Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Well Status	Location / Description	Leachate (per WWTP permts) Months (1,4,7,10)	Background Event May 29, 2025	Annual Groundwater Event November 3 & 4, 2025***	Background Event November 3, 2025	Background Event November 4, 2025	Background Event November 11, 2025	Annual Groundwater Event (second mobilization) November 11, 2025
MW-2A	Detection	Upgradient	--	--	Selected Annual Parameters	--	--	--	--
MW-7A	Detection	Downgradient	--	--	Selected Annual Parameters	--	--	--	--
MW-11R [3]	Background	Downgradient	--	--	-- [2]	Appendix I & Selected Annual Parameters	--	--	--
MW-110	Detection	Upgradient	--	--	Selected Annual Parameters	--	--	--	--
MW-117 *	Detection	Distant Downgradient	--	--	Selected Annual Parameters	--	--	--	--
MW-118 *	Detection	Distant Downgradient	--	--	Selected Annual Parameters	--	--	--	--
MW-123 *	Detection	Upgradient	--	--	Selected Annual Parameters	--	--	--	--
MW-132	Detection	Downgradient	--	--	Selected Annual Parameters	--	--	--	--
MW-133	Detection	Downgradient	--	--	Selected Annual Parameters	--	--	--	--
MW-134 [1]	Background	Downgradient	--	Appendix I & Selected Annual Parameters	-- [2]	--	Appendix I & Selected Annual Parameters	--	--
MW-135 [1]	Background	Downgradient	--	Appendix I & Selected Annual Parameters	-- [2]	--	Appendix I & Selected Annual Parameters	--	--
MW-136 [1]	Background	Downgradient	--	Appendix I & Selected Annual Parameters	-- [2]	--	Appendix I & Selected Annual Parameters	--	--
GU-V-2	Groundwater Underdrain	Groundwater Underdrain	--	--	Inaccessible	--	--	--	Selected Annual Parameters
GU-V-III-1 [4]	Groundwater Underdrain	Groundwater Underdrain	--	Appendix I & Selected Annual Parameters	-- [2]	--	Inaccessible	Appendix I & Selected Annual Parameters	--
Other wells **	WL only	Various	--	--	WL	--	--	--	--
Outfall 1	NPDES	Stormwater Pond Outlet	--	--	--	--	--	--	--
Leachate (4 ponds)	--	--	WWTP parameters	--	Selected Annual Parameters****	--	--	--	--

Groundwater Monitoring Notes:

* - Monitoring wells added to Detection monitoring schedule in Fall 2014, as per Permit Amendment #5

** - Other Wells available for static water level measurements: MW-101, MW-104, MW-112, MW-112, MW-120, P120S, MW-121, P121S, P-15, P-16, P-17 and P-18

*** - Annual Groundwater Events are completed on a rotating, seasonal schedule; sampling during the winter quarter is excluded

Spring Window = April - May
Summer Window = June - July
Fall Window = October - November

[1] = Monitoring wells MW-134, MW-135, and MW-136 installed May-June 2023

[2] = to be incorporated into Annual Groundwater Events once the 8 rounds of background monitoring have been completed

[3] = Monitoring well MW-11R installed August 2025

[4] = New groundwater underdrain

Appendix I Parameters sampled and analyzed every three years. Last completed May 2023; next event scheduled for 2026

Parameter Lists:

Selected Annual Parameters (Optimized parameter list, as per November 2023 Hydrologic Monitoring System Plan (HMSP)):

- Intrawell Statistical Detection Parameters = Ammonia, Chloride, Sodium, and Alkalinity
- Supplemental Parameters = Calcium, Iron, Magnesium, Potassium, Sulfate, Total dissolved solids (TDS), and Total Suspended Solids (TSS)

Appendix I:

- IAC Chapter 113, Appendix I Parameter List (Metals & Volatile Organic Compounds (VOCs))

Appendix II:

- IAC Chapter 113, Appendix II Parameter List (Includes full Appendix I List + Pesticides, Herbicides, Poly-Chlorinated Biphenyls (PCBs), Semi-Volatiles, Cyanide, Mercury, Sulfide, and Tin)

Leachate Monitoring Notes:

**** - Samples collected October 22, 2025

Leachate management system includes 4 ponds (Ponds 1, 2, 3, and 4); sample collection and analyses per wastewater treatment plant (WWTP) agreements on quarterly basis. Leachate ponds are also sampled for Selected Annual Parameters concurrent with Annual Groundwater Events.

Current WWTP Agreements:

- Mason City, Iowa - Issued: 05/29/2024; Expires: 05/29/2027
- Northwood, Iowa - Issued: 10/01/2020; Expires: 2030
- Albert Lea, Minnesota - Issued: 01/01/2023; Expires: 12/31/2027

Table 4A - Dedicated Pump and TSS/Turbidity Measurements

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Well ID	Well Position (Relative to waste)	Total Well Depth	Well Installed (Sealed)	Well Status	Bladder Pump Installation	TSS [Turbidity] May 2015 (prior to pump)	TSS [Turbidity] Oct 2015 (post pump)	TSS [Turbidity] May 2016 (post pump)	TSS [Turbidity] Nov 2016 (post pump)	TSS [Turbidity] May 2017 (post pump)	TSS [Turbidity] Oct 2017 (post pump)	TSS [Turbidity] July 2018 (post pump)	[Turbidity] Nov 2018 (post pump)	TSS [Turbidity] May 2019 (post pump)
MW-2A	Upgradient	78.7	1995	WQ / Detection	Oct '15	<4 [3.2]	<4 [2.1]	<4 [2.9]	<4 [2.5]	<4 [4.0]	<4 [3.1]	<4 [3.5]	[2.1]	[11.6]
MW-7A	Downgradient	101.3	1998	WQ / Detection	Oct '15	<4 [4.8]	33.2 [20]	11.2 [30.1]	32.4 [34.9]	12.8 [20.1]	10.8 [11.7]	34.4 [22.1]	--	--
MW-11[2]	Downgradient	73.8	1989 (2025)	Sealed	Sealed	--	--	--	--	--	--	5.6 [17.3]	--	--
MW-11R	Downgradient	72	2025	Background	Aug '25	--	--	--	--	--	--	--	--	--
MW-101	Up- to Side-gradient	82.6	1995	SWL	--	--	--	--	--	--	--	--	--	--
MW-104	Down- to Side-gradient	82.8	1995	SWL	--	--	--	--	--	--	--	--	--	--
MW-110	Upgradient	76	1995	WQ / Detection	2009	--	--	--	--	--	--	<4 [13.9]	--	--
MW-112	Down- to Side-gradient	82.1	1996	SWL	NA	--	--	--	--	--	--	--	--	--
MW-115[1]	Downgradient	80	1998 (2022)	Sealed	Sealed	297 [98]	51.2 [47.1]	18 [10.2]	10.4 [4.3]	<4 [19.6]	<4 [12.8]	<4 [12.5]	--	--
MW-117	Distant Downgradient	76.1	1999	WQ / Detection	Oct '15	118 [70.3]	43.2 [33.1]	20 [19.3]	5.6 [11.0]	14.8 [13.1]	202 [40.7]	11.6 [11.5]	[49.1]	[9.5]
MW-118	Distant Downgradient	95.4	1999	WQ / Detection	Oct '15	4.8 [4.4]	8 [7]	14.4 [11.3]	<4 [2.5]	5.2 [--]	<4 [5.6]	<4 [6.0]	[2.0]	[10.8]
MW-120	Downgradient	63.7	1999	SWL	--	--	--	--	--	--	--	--	--	--
P-120S	Downgradient	18.4	1999	SWL	--	--	--	--	--	--	--	--	--	--
MW-121	Downgradient	105.4	1999	SWL	--	--	--	--	--	--	--	--	--	--
P-121S	Downgradient	33.4	1999	SWL	--	--	--	--	--	--	--	--	--	--
MW-123	Upgradient	82.9	2003	WQ / Detection	Oct '15	5.6 [2.5]	6.0 [6.0]	5.6 [7.1]	<4 [2.0]	4.8 [5.8]	6 [5]	<4 [4.1]	[2.0]	[4.0]
MW-130[1]	Downgradient	73	2009 (2022)	Sealed	Sealed	5.2 [21.3]	17.2 [6.0]	12 [31]	8.4 [2.6]	10.8 [10.0]	5.2 [4.1]	8.0 [5.0]	[30]	[22.8]
MW-131[1]	Downgradient	54	2009 (2022)	Sealed	Sealed	11.2 [11.5]	25.6 [9.1]	7.2 [7.1]	12 [4.4]	16 [8.0]	9.6 [2.7]	6.8 [3.1]	[9.3]	[5.8]
MW-132	Downgradient	42.5	2009	WQ / Detection	Oct '15	56.2 [43.2]	31.6 [20]	25.6 [17.1]	18.8 [14]	16 [23.1]	5.2 [17]	20 [15.4]	[33.1]	[71.7]
MW-133	Downgradient	53.3	2009	WQ / Detection	Oct '15	53.2 [30.2]	9.6 [7.8]	4.4 [9.3]	5.6 [4.5]	5.6 [8.4]	6 [8.3]	6 [24.3]	[27]	[10.2]
MW-134	Downgradient	59.8	2023	Background	Jun '23	--	--	--	--	--	--	--	--	--
MW-135	Downgradient	72.4	2023	Background	Jun '23	--	--	--	--	--	--	--	--	--
MW-136	Downgradient	80.5	2023	Background	Jun '23	--	--	--	--	--	--	--	--	--
P-15	Upgradient	18.4	1999	SWL	--	--	--	--	--	--	--	--	--	--
P-16	Upgradient	17.9	2003	SWL	--	--	--	--	--	--	--	--	--	--
P-17	Upgradient	18.1	2003	SWL	--	--	--	--	--	--	--	--	--	--
P-18	Upgradient	17.7	2003	SWL	--	--	--	--	--	--	--	--	--	--
GU-V-2	GW Underdrain	--	--	WQ	Submersible	--	--	--	--	--	--	--	--	--
GU-VIII-1	GW Underdrain	--	--	Background	Submersible	--	--	--	--	--	--	--	--	--

Notes:

WQ: Monitoring well utilized for groundwater quality monitoring, as required by Solid Waste Permit, its amendments, and the 2023 Hydrologic Monitoring System Plan (2023 HMSP)

- Detection = Monitoring well is in Detection status, per the 2023 HMSP
- Assessment = Monitoring well is in Assessment status, per 2023 HMSP
- Background = Monitoring well is in Background status, per 2023 HMSP

SWL: Monitoring location utilized for static water level measurements only

[1] - Monitoring wells MW-115, MW-130, & MW-131 sealed August 2022

[2] - Monitoring well MW-11 sealed August 2025

Sampling Event Notes:

May 2020 - MW-2A pump was pulled to release check-ball that was stuck and causing elevated turbidity measurements.

July 2024 - MW-11 damaged prior to sampling event; thus, well was unable to be sampled.

Table 4A - Dedicated Pump and TSS/Turbidity Measurements

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Well ID	Well Position (Relative to waste)	Total Well Depth	Well Installed (Sealed)	Well Status	Bladder Pump Installation	TSS [Turbidity] Oct 2019 (post pump)	TSS [Turbidity] May 2020 (post pump)	TSS [Turbidity] July 2021 (post pump)	TSS [Turbidity] Nov 2022 (post pump)	TSS [Turbidity] May 2023 (post pump)	TSS [Turbidity] July 2024 (post pump)	TSS [Turbidity] Nov 2025 (post pump)
MW-2A	Upgradient	78.7	1995	WQ / Detection	Oct '15	<4.0 [4.0]	47.3 [50.9]	<4.0 [9.6]	<4.0 [1.3]	<4.0 [1.5]	<4.0 [2.1]	10.8 [11.8]
MW-7A	Downgradient	101.3	1998	WQ / Detection	Oct '15	4.8 [11.1]	79.0 [19.0]	15.1 [37.3]	<4.0 [4.5]	14.4 [14.0]	34.6 [40.0]	46.5 [13.6]
MW-11[2]	Downgradient	73.8	1989 (2025)	Sealed	Sealed	9.6 [9.2]	17.2 [19.2]	12.6 [7.3]	8.40 [18.1]	9.5 [4.7]	Well Damaged	Sealed
MW-11R	Downgradient	72	2025	Background	Aug '25	--	--	--	--	--	--	8.00 [15.7]
MW-101	Up- to Side-gradient	82.6	1995	SWL	--	--	--	--	--	--	--	--
MW-104	Down- to Side-gradient	82.8	1995	SWL	--	--	--	--	--	--	--	--
MW-110	Upgradient	76	1995	WQ / Detection	2009	4.4 [1.3]	4.1 [15.3]	<4.0 [17.6]	<4.0 [1.0]	4.4 [3.0]	4.5 [1.0]	<4.0 [9.7]
MW-112	Down- to Side-gradient	82.1	1996	SWL	NA	--	--	--	--	--	--	--
MW-115[1]	Downgradient	80	1998 (2022)	Sealed	Sealed	4.8 [3.8]	15.5 [14.9]	14.4 [8.8]	Sealed	Sealed	Sealed	Sealed
MW-117	Distant Downgradient	76.1	1999	WQ / Detection	Oct '15	10.4 [8.0]	98.0 [20.3]	156 [27.3]	33.8 [6.3]	350 [26.3]	6.8 [39.5]	22.8 [16]
MW-118	Distant Downgradient	95.4	1999	WQ / Detection	Oct '15	4.8 [5.2]	<4.0 [5.1]	<4.0 [9.3]	<4.0 [3.5]	4.6 [3.0]	<4.0 [2.0]	<4.0 [1]
MW-120	Downgradient	63.7	1999	SWL	--	--	--	--	--	--	--	--
P-120S	Downgradient	18.4	1999	SWL	--	--	--	--	--	--	--	--
MW-121	Downgradient	105.4	1999	SWL	--	--	--	--	--	--	--	--
P-121S	Downgradient	33.4	1999	SWL	--	--	--	--	--	--	--	--
MW-123	Upgradient	82.9	2003	WQ / Detection	Oct '15	7.2 [4.7]	<4.0 [3.3]	<4.0 [0.9]	<4.0 [18.2]	<4.0 [2.3]	4.0 [0.8]	<4.0 [8.6]
MW-130[1]	Downgradient	73	2009 (2022)	Sealed	Sealed	4.4 [4.6]	15.1 [4.3]	10.3 [4.0]	Sealed	Sealed	Sealed	Sealed
MW-131[1]	Downgradient	54	2009 (2022)	Sealed	Sealed	18.8 [1.5]	26.4 [3.5]	9.87 [2.9]	Sealed	Sealed	Sealed	Sealed
MW-132	Downgradient	42.5	2009	WQ / Detection	Oct '15	37.6 [172.9]	20.8	9.60 [7.0]	8.70 [5.9]	50.6 [43.2]	17.0 [26.0]	14.7 [16]
MW-133	Downgradient	53.3	2009	WQ / Detection	Oct '15	10.4 [19.9]	25.7 [27.3]	120 [79.3]	14.5 [17.7]	11.2 [9.3]	15.0 [15.9]	11.2 [18.3]
MW-134	Downgradient	59.8	2023	Background	Jun '23	--	--	--	--	--	--	64.0 [40]
MW-135	Downgradient	72.4	2023	Background	Jun '23	--	--	--	--	--	--	40.2 [21]
MW-136	Downgradient	80.5	2023	Background	Jun '23	--	--	--	--	--	--	8.60 [18.2]
P-15	Upgradient	18.4	1999	SWL	--	--	--	--	--	--	--	--
P-16	Upgradient	17.9	2003	SWL	--	--	--	--	--	--	--	--
P-17	Upgradient	18.1	2003	SWL	--	--	--	--	--	--	--	--
P-18	Upgradient	17.7	2003	SWL	--	--	--	--	--	--	--	--
GU-V-2	GW Underdrain	--	--	WQ	Submersible	--	--	--	--	--	--	183 [218]
GU-VIII-1	GW Underdrain	--	--	Background	Submersible	--	--	--	--	--	--	<4.00 [7.3]

Notes:

WQ: Monitoring well utilized for groundwater quality monitoring, as required by Solid Waste Permit, its amendments, and the 2023 Hydrologic Monitoring System Plan (2023 HMSP)

- Detection = Monitoring well is in Detection status, per the 2023 HMSP
- Assessment = Monitoring well is in Assessment status, per 2023 HMSP
- Background = Monitoring well is in Background status, per 2023 HMSP

SWL: Monitoring location utilized for static water level measurements only

[1] - Monitoring wells MW-115, MW-130, & MW-131 sealed August 2022

[2] - Monitoring well MW-11 sealed August 2025

Sampling Event Notes:

May 2020 - MW-2A pump was pulled to release check-ball that was stuck and causing elevated turbidity measurements.

July 2024 - MW-11 damaged prior to sampling event; thus, well was unable to be sampled.

Table 4B - Well Performance Evaluation

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Monitoring Well	Well Depth (Feet)	Depth Difference (Feet)	Purge Rate (Liters/Min)	Static Depth to Water (Feet)	Ending Depth to Water (Feet)	Drawdown[1] (Feet)	Efficiency (Liters/Min per Foot)	Drawdown Difference[2] (Feet)	Efficiency Difference (Liters/Min per Foot)
Fall 2009									
MW-130	72.8	--	0.5	47.42	48.00	0.58	0.86	--	--
MW-131	54.0	--	0.3	38.48	42.70	4.22	0.07	--	--
MW-132	42.5	--	0.3	27.53	31.70	4.17	0.07	--	--
MW-133	53.3	--	0.5	19.53	27.00	7.47	0.07	--	--
MW-115	82.4	--	0.5	50.78	51.30	0.52	0.96	--	--
MW-110*	76.2	--	0.4	56.39	56.70	0.31	1.29	--	--
MW-2A	78.7	--	N/A	38.28	44.30	6.02	--	--	--
MW-7A	101.3	--	N/A	65.53	77.30	11.77	--	--	--
MW-11	N/A	--	N/A	N/A	N/A	--	--	--	--
Fall 2012									
MW-130	73.0	0.20	0.4	49.22	49.30	0.08	5.00	-0.50	4.14
MW-131	53.6	-0.40	0.3	40.20	43.30	3.10	0.10	-1.12	0.03
MW-132	42.1	-0.40	0.3	29.59	39.10	9.51	0.03	5.34	-0.04
MW-133	53.0	-0.25	0.2	22.30	38.50	16.20	0.01	8.73	-0.05
MW-115	79.5	-2.90	0.5	50.52	50.60	0.08	6.25	-0.44	5.29
MW-110	75.2	-1.00	0.2	59.28	59.30	0.02	10.00	-0.29	8.71
MW-2A	78.6	-0.10	0.2	40.05	48.90	8.85	0.02	2.83	--
MW-7A	101.3	0.00	0.2	68.92	82.60	13.68	0.01	1.91	--
MW-11	73.8	--	0.2	53.62	53.60	-0.02	--	--	--
Fall 2014									
MW-130	N/A	--	0.2	47.53	47.60	0.07	2.86	-0.01	-2.14
MW-131	N/A	--	0.2	38.54	42.20	3.66	0.05	0.56	-0.04
MW-132	N/A	--	0.2	27.73	29.90	2.17	0.09	-7.34	0.06
MW-133	N/A	--	0.2	19.89	26.50	6.61	0.03	-9.59	0.02
MW-115	N/A	--	0.5	49.05	49.10	0.05	10.00	-0.03	3.75
MW-110	N/A	--	0.2	58.27	58.27	0.00	--	-0.02	--
MW-2A	N/A	--	0.2	39.20	51.30	12.10	0.02	3.25	-0.01
MW-7A	N/A	--	0.2	65.84	69.30	3.46	0.06	-10.22	0.04
MW-11	N/A	--	0.2	50.89	50.89	0.00	--	0.02	--
Fall 2015									
MW-130	N/A	--	0.3	46.85	46.80	-0.05	--	-0.12	--
MW-131	N/A	--	0.3	37.46	43.90	6.44	0.05	2.78	-0.01
MW-132	N/A	--	0.3	26.63	30.30	3.67	0.08	1.50	-0.01
MW-133	N/A	--	0.3	18.50	23.50	5.00	0.06	-1.61	0.03
MW-115	N/A	--	0.3	48.27	48.30	0.03	10.00	-0.02	0.00
MW-110	N/A	--	0.3	57.41	57.40	-0.01	--	-0.01	--
MW-2A	N/A	--	0.2	38.91	47.20	8.29	0.02	-3.81	0.01
MW-7A	N/A	--	0.2	64.68	70.10	5.42	0.04	1.96	-0.02
MW-11	N/A	--	0.3	50.12	50.10	-0.02	--	-0.02	--
Fall 2016									
MW-130	N/A	--	0.3	45.88	N/A	--	--	--	--

Table 4B - Well Performance Evaluation

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Monitoring Well	Well Depth (Feet)	Depth Difference (Feet)	Purge Rate (Liters/Min)	Static Depth to Water (Feet)	Ending Depth to Water (Feet)	Drawdown[1] (Feet)	Efficiency (Liters/Min per Foot)	Drawdown Difference[2] (Feet)	Efficiency Difference (Liters/Min per Foot)
MW-131	N/A	--	0.3	35.95	36.00	0.05	6.00	-6.39	5.95
MW-132	N/A	--	0.3	24.89	25.10	0.21	1.43	-3.46	1.35
MW-133	N/A	--	0.3	15.60	N/A	--	--	--	--
MW-115	N/A	--	0.3	47.20	N/A	--	--	--	--
MW-110	N/A	--	0.3	55.66	55.70	0.04	7.50	0.05	--
MW-2A	N/A	--	0.3	38.14	38.20	0.06	5.00	-8.23	4.98
MW-7A	N/A	--	0.3	62.61	63.40	0.79	0.38	-4.63	0.34
MW-11	N/A	--	0.4	48.59	48.60	0.01	40.00	0.03	--
Fall 2017									
MW-130	73.0	--	0.3	47.02	47.00	-0.02	--	--	--
MW-131	53.9	--	0.3	37.80	37.80	0.00	--	-0.05	--
MW-132	42.1	--	0.3	26.89	26.90	0.01	30.00	-0.20	28.57
MW-133	53.0	--	0.3	19.00	19.00	0.00	--	--	--
MW-115	81.0	--	0.3	48.42	48.40	-0.02	--	--	--
MW-110	75.6	--	0.3	56.46	56.50	0.04	7.50	-7.105×10^{-15}	0.00
MW-2A	78.6	--	0.3	38.43	38.70	0.27	1.11	0.21	-3.89
MW-7A	101.3	--	0.3	64.88	64.90	0.02	15.00	-0.77	14.62
MW-11	73.8	--	0.3	50.35	50.40	0.05	6.00	0.04	-34.00
Summer 2018									
MW-130	73.0	0.00	0.4	46.35	46.40	0.05	8.00	0.07	--
MW-131	53.9	0.00	0.4	37.58	37.60	0.02	20.00	0.02	--
MW-132	42.1	0.00	0.4	26.66	26.70	0.04	10.00	0.03	-20.00
MW-133	53.0	0.00	0.4	17.10	17.10	0.00	--	0.00	--
MW-123	82.9	--	0.4	63.90	63.90	0.00	--	--	--
MW-118	95.4	--	0.4	59.00	59.00	0.00	--	--	--
MW-117	76.1	--	0.4	53.28	53.30	0.02	20.00	--	--
MW-115	81.0	0.00	0.4	47.71	47.71	0.00	--	0.02	--
MW-110	75.6	0.00	0.4	56.31	56.31	0.00	--	-0.04	--
MW-2A	78.6	0.00	0.4	37.35	37.35	0.00	--	-0.27	--
MW-7A	101.3	0.00	0.4	63.52	63.52	0.00	--	-0.02	--
MW-11	73.8	0.00	0.4	48.95	48.95	0.00	--	-0.05	--
Fall 2018									
MW-130	73.0	0.00	0.3	45.77	45.80	0.03	10.00	-0.02	2.00
MW-131	53.9	0.00	0.3	36.50	36.50	0.00	--	-0.02	--
MW-132	42.1	0.00	0.3	25.20	25.20	0.00	--	-0.04	--
MW-133	53.0	0.00	0.3	17.80	17.80	0.00	--	0.00	--
MW-123	N/A	--	0.3	62.81	62.80	-0.01	--	-0.01	--
MW-118	N/A	--	0.3	58.30	58.30	0.00	--	0.00	--
MW-117	76.1	0.00	0.3	52.49	52.50	0.01	30.00	-0.01	10.00
MW-115	81.0	0.00	N/A	N/A	N/A	--	--	--	--
MW-110	75.6	0.00	N/A	N/A	N/A	--	--	--	--
MW-2A	78.6	0.00	0.3	38.60	44.40	5.80	0.05	5.80	--

Table 4B - Well Performance Evaluation

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Monitoring Well	Well Depth (Feet)	Depth Difference (Feet)	Purge Rate (Liters/Min)	Static Depth to Water (Feet)	Ending Depth to Water (Feet)	Drawdown[1] (Feet)	Efficiency (Liters/Min per Foot)	Drawdown Difference[2] (Feet)	Efficiency Difference (Liters/Min per Foot)
MW-7A	101.3	0.00	N/A	N/A	N/A	--	--	--	--
MW-11	73.8	0.00	N/A	N/A	N/A	--	--	--	--
Fall 2019									
MW-130	72.0	-0.98	0.4	45.73	45.73	0.00	--	-0.03	--
MW-131	53.1	-0.85	0.4	35.92	35.92	0.00	--	0.00	--
MW-132	41.8	-0.29	0.4	24.87	24.87	0.00	--	0.00	--
MW-133	52.3	-0.73	0.4	16.19	16.19	0.00	--	0.00	--
MW-123	84.0	--	0.4	63.30	63.30	0.00	--	0.01	--
MW-118	96.0	--	0.4	59.00	59.00	0.00	--	0.00	--
MW-117	77.0	0.90	0.4	53.08	53.08	0.00	--	-0.01	--
MW-115	78.4	-2.65	0.4	47.13	47.13	0.00	--	--	--
MW-110	74.9	-0.70	0.4	55.78	55.78	0.00	--	--	--
MW-2A	78.4	-0.20	0.4	37.25	37.30	0.05	8.00	-5.75	7.95
MW-7A	101.4	0.10	0.4	63.22	72.50	9.28	0.04	--	--
MW-11	72.65	-1.15	0.4	48.82	48.82	0.00	--	--	--
Spring 2020									
MW-130	72.0	0.00	0.4	45.30	45.30	0.00	--	0.00	--
MW-131	53.1	0.00	0.4	36.58	36.58	0.00	--	0.00	--
MW-132	41.8	0.00	0.4	25.62	25.62	0.00	--	0.00	--
MW-133	52.3	0.00	0.4	16.17	16.17	0.00	--	0.00	--
MW-123	84.0	0.00	0.4	62.88	62.88	0.00	--	0.00	--
MW-118	96.0	0.00	0.4	58.41	58.41	0.00	--	0.00	--
MW-117	77.0	0.00	0.4	52.90	52.90	0.00	--	0.00	--
MW-115	78.4	0.00	0.4	46.66	46.66	0.00	--	0.00	--
MW-110	74.9	0.00	0.4	55.08	55.08	0.00	--	0.00	--
MW-2A	78.4	0.00	0.4	37.03	37.20	0.17	2.35	0.12	-5.65
MW-7A	101.4	0.00	0.4	62.55	64.00	1.45	0.28	-7.83	0.23
MW-11	72.65	0.00	0.4	48.25	48.25	0.00	--	0.00	--
Fall 2022									
MW-130	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*
MW-131	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*
MW-132	41.9	0.09	0.3	27.00	28.00	1.00	0.30	1.00	--
MW-133	52.6	0.33	0.3	20.69	20.90	0.21	1.43	0.21	--
MW-123	83.0	-1.00	0.3	66.31	66.30	-0.01	--	-0.01	--
MW-118	96.0	0.00	0.3	61.38	61.40	0.02	15.00	0.02	--
MW-117	76.5	-0.50	0.3	55.63	55.70	0.07	4.29	0.07	--
MW-115	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*
MW-110	75.6	0.70	0.3	58.19	58.20	0.01	30.00	0.01	--
MW-2A	78.5	0.10	0.3	38.36	44.20	5.84	0.05	5.67	-2.30
MW-7A	100.9	-0.50	0.2	66.2	88.50	22.30	0.01	20.85	-0.27
MW-11	73.6	0.95	0.3	51.27	51.50	0.23	1.30	0.23	--

Table 4B - Well Performance Evaluation

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Monitoring Well	Well Depth (Feet)	Depth Difference (Feet)	Purge Rate (Liters/Min)	Static Depth to Water (Feet)	Ending Depth to Water (Feet)	Drawdown[1] (Feet)	Efficiency (Liters/Min per Foot)	Drawdown Difference[2] (Feet)	Efficiency Difference (Liters/Min per Foot)
Summer 2024									
MW-130	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*
MW-131	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*
MW-132	42.2	0.25	0.3	27.26	27.50	0.24	1.25	-0.76	0.95
MW-133	53.1	0.50	0.3	17.47	17.90	0.43	0.70	0.22	-0.73
MW-123	84.4	1.40	0.3	64.22	64.30	0.08	3.75	0.09	--
MW-118	95.4	-0.65	0.3	58.77	58.80	0.03	10.00	0.01	-5.00
MW-117	76.2	-0.30	0.3	53.30	53.30	0.00	--	-0.07	--
MW-115	*Sealed*	Sealed	*Sealed*	*Sealed*	*Sealed*	Sealed	Sealed	Sealed	Sealed
MW-110	75.2	-0.40	0.3	57.39	57.40	0.01	30.00	0.00	0.00
MW-2A	79.9	1.40	0.3	38.30	38.90	0.60	0.50	-5.24	0.45
MW-7A	102	1.10	0.3	63.75	68.00	4.25	0.07	-18.05	0.06
MW-11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fall 2025									
MW-130	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*
MW-131	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*	*Sealed*
MW-132	42.2	0.00	0.3	25.40	NR	--	--	--	--
MW-133	53.1	0.00	0.2	16.22	NR	--	--	--	--
MW-123	84.4	0.00	0.3	63.38	NR	--	--	--	--
MW-118	95.4	0.00	0.4	NA	NR	--	--	--	--
MW-117	76.2	0.00	0.4	53.33	NR	--	--	--	--
MW-115	*Sealed*	Sealed	*Sealed*	*Sealed*	*Sealed*	Sealed	Sealed	Sealed	Sealed
MW-110	75.2	0.00	0.3	56.30	NR	--	--	--	--
MW-2A	79.9	0.00	0.3	37.41	NR	--	--	--	--
MW-7A	102	0.00	0.3	63.12	NR	--	--	--	--
MW-11[3]	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed	Sealed
MW-11R[3]	72.0	0.00	0.3	50.19	N/A	--	--	--	--

Notes:

(1) - Postive number indicates drawdown ocurred during purging

(2) - Positive number indicates an increase in drawdown between rounds

(3) - MW-11 sealed in August 2025, MW-11R was installed in August 2025

Drawdown Difference and Efficiency Difference values are calculated between the presented events

Text in red indicates a decreasing value (i.e., no drawdown ocurred during sample, decreasing drawdown between events, or decrease in efficiency between events)

* - MW-110 data presented is from 2010

-- = Value is undefined, or otherwise invalid based on presented data

N/A = Reading not available, not recorded, or N/A during event

NR = Not required in accordance with 2023 HMSP

Table 5 - Groundwater Elevation Summary (2011-Present)

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Date	MW-2A	MW-7A	MW-11	MW-11R	MW-101	MW-104	MW-110	MW-112	MW-115	MW-117	MW-118	MW-120	MW-121	MW-123	MW-130	MW-131	MW-132	MW-133	MW-134	MW-135	MW-136	P-15	P-16	P-17	P-18	P-120s	P-121s
TOC	*1,281.05*	*1,294.94*	*1,277.65*	*1,279.53*	*1,292.09*	*1,272.16*	*1,291.32*	*1,287.89*	*1,279.85*	*1,279.84*	*1,284.56*	*1,278.86*	*1,275.65*	*1,294.66*	*1,276.76*	*1,268.20*	*1,259.32*	*1,254.95*	*1,261.83*	*1,277.32*	*1,274.63*	*1,297.40*	*1,292.29*	*1,293.64*	*1,294.48*	*1,278.76*	*1,275.75*
03/30/11	--	--	--	--	--	--	--	--	1,231.37	1,226.52	1,225.54	--	--	1,230.78	--	--	--	--	--	--	--	1,290.65	1,288.24	1,290.32	1,291.20	--	--
06/16/11	1,244.75	1,232.28	1,229.21	--	--	1,232.38	1,236.53	--	1,231.98	--	--	--	--	--	1,231.76	1,231.78	1,233.10	1,239.13	--	--	--	--	--	--	--	--	--
06/29/11	1,238.96	1,232.38	1,229.53	--	1,235.13	1,232.49	1,236.12	1,234.27	1,230.37	1,227.31	1,226.37	1,229.24	1,230.06	1,231.72	1,231.66	1,231.57	1,233.17	1,238.22	--	--	--	1,288.29	1,286.99	1,289.61	1,289.76	1,270.94	1,261.78
09/28/11	1,243.15	1,230.64	1,227.41	--	1,233.79	1,227.05	1,235.40	1,233.07	1,230.83	1,225.11	1,223.91	1,227.41	1,227.60	1,230.44	1,230.65	1,231.39	1,233.42	1,237.30	--	--	--	1,285.17	1,283.80	1,287.44	1,286.86	1,269.56	1,256.34
12/12/11	--	--	1,227.02	--	--	--	--	--	--	1,224.68	1,223.59	--	--	1,228.79	1,229.97	1,230.32	1,230.40	1,234.65	--	--	--	1,282.28	1,281.96	1,286.00	1,284.56	--	--
03/28-29/12	1,242.55	1,230.64	1,226.65	--	--	1,229.64	1,234.42	1,231.71	1,231.30	1,224.56	1,223.45	1,226.90	1,226.82	1,227.68	1,229.61	1,228.88	1,229.76	1,233.43	--	--	--	1,281.89	1,283.70	1,287.84	1,285.87	1,270.18	1,253.86
04/05/12	--	--	1,226.61	--	--	--	--	--	--	--	--	--	--	--	1,229.56	1,228.69	1,229.65	1,233.40	--	--	--	--	--	--	--	--	--
06/25/12	--	--	1,226.28	--	--	--	--	--	1,230.96	1,224.12	1,222.87	--	--	1,227.19	1,229.33	1,228.75	1,230.44	1,234.81	--	--	--	1,285.20	1,283.15	1,287.47	1,286.48	--	--
09/25/12	1,241.00	1,226.02	1,224.03	--	1,229.11	1,226.94	1,232.04	1,229.54	1,229.33	1,221.84	1,220.81	1,224.09	1,223.94	1,224.92	1,227.54	1,228.00	1,229.73	1,232.65	--	--	--	1,279.55	1,276.52	1,283.44	1,278.99	1,267.17	1,224.04
12/11/12	--	--	--	--	--	--	--	--	1,229.25	1,222.14	1,221.03	--	--	1,225.14	--	--	--	--	--	--	--	1,279.52	1,274.68	1,283.38	1,277.06	--	--
03/26/13	1,241.06	1,225.33	1,224.02	--	1,227.91	1,226.94	1,231.32	1,228.99	1,228.63	1,221.82	1,220.79	1,224.24	1,223.89	1,224.18	1,226.88	1,225.89	1,226.50	1,229.07	--	--	--	1,279.51	1,274.65	1,284.60	1,277.03	1,265.49	1,251.68
06/24/13	--	--	--	--	--	--	--	--	1,230.20	1,225.13	1,224.53	--	--	1,226.42	--	--	--	--	--	--	--	1,292.95	1,288.97	1,291.06	1,292.03	--	--
08/28/13	--	--	--	--	--	--	--	--	1,230.82	1,224.69	1,223.44	--	--	1,228.13	--	--	--	--	--	--	--	1,288.38	1,286.10	1,288.22	1,281.51	--	--
11/20/13	1,241.76	1,228.60	1,226.42	--	1,231.57	1,229.54	1,232.53	1,231.12	1,230.14	1,224.37	1,223.36	1,226.14	1,226.99	1,227.57	1,228.94	1,229.36	1,230.94	1,234.23	--	--	--	1,286.04	1,284.55	1,287.44	1,286.66	1,269.41	1,258.03
05/21/14	1,241.70	1,228.20	1,226.43	--	--	--	1,233.28	--	1,230.47	--	--	--	--	--	1,228.72	1,229.11	1,230.23	1,232.71	--	--	--	--	--	--	--	--	--
10/07/14	1,241.85	1,229.10	1,226.76	--	1,231.80	1,228.57	1,233.05	1,230.13	1,230.80	1,224.78	1,223.82	1,226.28	1,227.24	1,228.22	1,229.23	1,229.66	1,231.59	1,235.06	--	--	--	1,286.59	1,285.66	1,288.54	1,287.81	1,272.24	1,259.08
05/11/15 & 06/02/15	1,242.60	1,229.24	1,227.20	--	1,232.09	1,230.33	1,233.63	--	1,231.28	1,225.35	1,224.52	1,227.08	1,227.43	1,228.51	1,229.51	1,229.10	1,230.50	1,234.41	--	--	--	1,289.59	1,287.61	1,289.33	1,290.29	1,272.36	1,262.75
10/13/15	1,242.14	1,230.26	1,227.53	--	1,233.07	1,230.65	1,233.91	1,232.29	1,231.58	1,225.46	1,224.49	1,227.23	1,228.06	1,229.63	1,229.91	1,230.74	1,232.69	1,236.45	--	--	--	1,286.60	1,285.31	1,287.70	1,287.26	1,270.64	1,257.95
05/24-25/16	1,243.44	1,231.90	1,229.11	--	1,234.77	1,232.29	1,235.41	1,233.51	1,232.73	1,227.11	1,226.14	1,228.81	1,229.65	1,231.30	1,230.96	1,231.15	1,232.83	1,237.43	--	--	--	1,288.06	1,286.46	1,288.41	1,288.84	1,272.67	1,261.00
11/09-10/16	1,242.91	1,232.33	1,229.06	--	1,235.58	1,232.25	1,235.66	1,233.76	1,232.65	1,226.92	1,225.96	1,228.71	1,229.61	1,231.92	1,230.88	1,232.25	1,234.43	1,239.35	--	--	--	1,288.63	1,287.30	1,289.05	1,289.49	1,272.78	1,262.03
05/15-16/17	1,243.26	1,232.66	1,229.63	--	1,235.88	1,232.95	1,236.40	1,234.24	1,238.29	1,227.54	1,226.54	1,229.41	1,230.03	1,232.46	1,231.51	1,231.91	1,233.81	1,238.95	--	--	--	1,288.58	1,287.09	1,288.93	1,289.30	1,273.08	1,262.23
10/23/17	1,242.62	1,230.06	1,227.30	--	1,233.23	1,230.31	1,234.86	1,232.47	1,231.43	1,224.94	1,223.86	1,227.37	1,227.37	1,229.75	1,229.74	1,230.40	1,232.43	1,235.95	--	--	--	1,283.93	1,282.73	1,286.89	1,284.11	1,270.68	1,256.10
07/31/18 & 08/01/18	1,243.70	1,231.42	1,228.70	--	1,234.29	1,232.00	1,235.01	1,233.03	1,232.14	1,226.56	1,225.56	1,228.43	1,229.39	1,230.76	1,230.41	1,230.62	1,232.66	1,237.85	--	--	--	1,289.28	1,287.29	1,288.74	1,288.93	1,272.57	1,263.96
11/27/18	1,242.45	--	--	--	--	--	--	--	--	1,227.35	1,226.26	--	--	1,231.85	1,230.99	1,231.70	1,234.12	1,237.15	--	--	--	--	--	--	--	--	--
05/9-10/19	1,242.17	--	--	--	--	--	--	--	--	1,227.00	1,226.11	--	--	1,230.97	1,231.29	1,230.98	1,232.49	1,237.43	--	--	--	--	--	--	--	--	--
10/14-15/19	1,243.80	1,231.72	1,228.83	--	1,234.87	1,231.81	1,235.54	1,233.45	1,232.72	1,226.76	1,225.56	--	--	1,231.36	1,231.03	1,232.48	1,234.45	1,238.78	--	--	--	1,290.57	1,288.05	1,289.83	1,290.01	--	--
5/19-20/20	1,244.02	1,232.39	1,229.40	--	1,235.44	1,232.76	1,236.24	1,234.05	1,233.19	1,226.94	1,226.15	1,229.16	1,229.75	1,231.78	1,231.46	1,231.62	1,233.70	1,238.78	--	--	--	1,288.05	1,286.70	1,289.25	1,289.76	1,273.38	1,262.53
07/19/21	1,243.48	1,228.75	1,225.73	--	1,231.98	1,229.09	1,233.51	1,231.71	1,230.36	1,223.23	1,222.06	1,225.78	1,226.00	1,228.32	1,228.71	1,230.58	1,231.71	1,235.18	--	--	--	1,285.50	1,284.05	1,287.07	1,285.54	1,272.11	1,258.49
04/14/22	--	1,228.82	--	--	--	--	--	--	--	--	--	--	--	--	--	1,228.95	--	--	--	--	--	--	--	--	--	--	--
11/10-11/22	1,242.69	1,228.74	1,226.38	--	1,231.97	1,229.16	1,233.13	1,230.92	*Sealed. Aug '22*	1,224.21	1,223.18	1,226.17	1,226.73	1,228.35	*Sealed. Aug '22*	*Sealed. Aug '22*	1,232.32	1,234.26	--	--	--	1,284.74	1,283.58	1,286.64	1,284.38	1,271.20	1,256.26
05/11/23	1,241.96	1,229.14	1,227.04	--	1,232.03	1,229.87	1,233.34	1,231.62	*Sealed. Aug '22*	1,225.14	1,224.18	1,227.09	1,227.36	1,228.31	*Sealed. Aug '22*	*Sealed. Aug '22*	1,230.64	1,234.88	--	--	--	1,288.37	1,287.43	1,289.44	1,290.76	1,273.93	1,257.45
06/21/23	--	--	--	--	--	--	--	--	*Sealed. Aug '22*	--	--	--	--	--	*Sealed. Aug '22*	*Sealed. Aug '22*	--	--	1,229.42	1,225.44	1,228.12	--	--	--	--	--	--
10/03/23	--	--	--	--	--	--	--	--	*Sealed. Aug '22*	--	--	--	--	--	*Sealed. Aug '22*	*Sealed. Aug '22*	--	--	1,226.97	1,225.73	1,226.22	--	--	--	--	--	--
04/25/24	--	--	--	--	--	--	--	--	*Sealed. Aug '22*	--	--	--	--	--	*Sealed. Aug '22*	*Sealed. Aug '22*	--	--	1,228.80	1,227.08	1,228.02	--	--	--	--	--	--
07/19/24	1,242.55	1,226.26	--	--	1,231.88	1,229.51	1,232.91	1,231.57	*Sealed. Aug '22*	1,226.54	1,225.76	1,226.85	1,227.25	1,225.24	*Sealed. Aug '22*	*Sealed. Aug '22*	1,231.90	1,237.43	--	--	--	1,288.89	1,283.85	1,284.90	1,285.55	1,274.23	1,257.30
10/24/24	--	--	--	--	--	--	--	--	*Sealed. Aug '22*	--	--	--	--	--	*Sealed. Aug '22*	*Sealed. Aug '22*	--	--	1,230.23	1,228.36	1,229.94	--	--	--	--	--	--
11/3/2025-11/4/2025	1,243.64	1,231.82	*sealed Aug '25*	1,229.34	*damaged*	1,231.59	1,235.02	*not measured*	*Sealed. Aug '22*	1,226.51	1,225.74	1,228.44	1,230.11	1,231.28	*Sealed. Aug '22*	*Sealed. Aug '22*	1,233.92	1,238.73	1,231.43	1,229.62	1,230.16	1,286.23	1,286.25	1,287.42	1,286.71	1,272.29	1,258.58

Notes:

-- = Measurement not collected, not required for given event, well did not exist, or well had been previously sealed

TOC = Top of Casing elevation

* - Water elevation is below well's dedicated bladder pump

** - Historical information is available in previous reports, or upon request

Table 6 - Selected Annual Parameters Results Summary (2018-Present)

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	Alkalinity	Ammonia	Calcium	Chloride	Iron	Magnesium	Potassium	Sodium	Sulfate	TDS	TSS	Turbidity
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*
MCL/GWPS [site std]	--	--	[30]	--	--	--	--	--	--	--	--	--	--
MW-2A	07/31/18	504	0.28	184	1.90	0.11	45	8.9	73.9	348	973	<4.0	3.5
	11/27/18	489	0.13	NT	2.50	NT	NT	NT	76.2	NT	NT	NT	2.1
	5/10/19	511	0.52	NT	2.50	NT	NT	NT	72.2	NT	NT	NT	11.6
	10/15/19	486	0.09	180	2.00	<0.050	46.3	9.1	75.5	410	110	<4.0	4.0
	5/19/20	514	0.642	181	1.09	6.51	47.3	8.74	73.2	334	820	47.3*	50.9*
	7/19/21	539	0.149	180	1.18	<0.100	42.8	8.23	71.0	306	960	<4.0	9.6
	11/11/22	503	<0.1	182	1.36	<0.1	45.2	8.31	75.9	341	866	<4.0	1.3
	5/11/23	503	0.246	188	1.14	<0.1	49.6	8.87	79.3	295	952	<4.0	1.5
	7/19/24	530	0.593	190	1.24	<0.1	45.4	8.66	74.9	314	936	<4.0	2.1
	11/4/25	507	0.197	190	1.78	0.326	47.4	9.54	77.1	310	928	10.8	11.8
~~MW-11~~[2]	07/31/18	422	0.58	148	1.50	2.3	36.8	7.6	37.3	248	813	5.6	17.3
	11/27/18	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	5/10/19	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	10/15/19	405	0.71	163	1.30	2.8	42.6	8.9	43.3	260	937	9.6	9.2
	5/19/20	390	0.717	147	5.06	2.67	38.0	11.1	38.6	248	695	17.2	19.2
	7/19/21	415	0.678	171	3.90	2.4	39.0	10.6	41.9	224	747	12.6	7.3
	9/23/21	NT	NT	NT	3.11	NT	NT	NT	NT	NT	NT	NT	1.4
	11/10/22	399	0.766	149	4.28	2.28	37.5	9.8	40.7	255	749	8.4	18.1
	5/11/23	417	0.800	168	<1.0	2.32	42.1	8.25	43.1	237	775	9.5	4.7
	7/19/24	NT**	NT**	NT**	NT**	NT**	NT**	NT**	NT**	NT**	NT**	NT**	NT**
MW-11R	11/3/25	408	0.73	158	2.68	0.532	43.9	8.04	47.3	233	779	8	15.7
MW-110	07/31/18	392	6.3	104	3.3	0.71	27.3	9.9	52.4	141	596	<4.0	13.9
	11/27/18	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	5/10/19	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	10/15/19	425	0.45	127	2.7	0.41	32.5	8.0	68.9	177	819	4.4	1.3
	5/19/20	352	<0.100	90.9	2.01	0.246	24.4	6.23	42.0	94.0	497	4.1	15.3
	7/19/21	473	0.467	142	1.79	<0.100	32.1	7.67	73.6	171	704	<4.0	17.6
	11/10/22	452	0.176	130	1.7	<0.1	32.1	7.38	75.9	199	696	<4.0	1.0
	5/11/23	431	<0.1	139	1.54	0.273	36.3	7.90	74.3	182	713	4.4	3.0
	7/19/24	422	0.925	115	2.29	0.106	29.5	8.05	56.2	128	617	4.5	1.0
	11/3/25	472	0.122	145	1.83	0.159	34.1	7.97	73.1	189	737	<4.0	9.7
~~MW-115~~[1]	07/31/18	496	0.44	143	5.10	1.5	37	8	39.7	109	646	<4.0	12.5
	11/27/18	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	5/10/19	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	10/15/19	477	0.62	142	2.10	1.8	39	8.2	43	167	805	4.8	3.8
	5/19/20	497	0.649	132	1.63	1.80	35.9	7.33	36.6	100	648	15.5	14.9
	7/19/21	537	0.658	151	21.70	2.03	38.9	7.84	40.8	111	715	14.4	8.8
	9/23/21	NT	NT	NT	11.30	NT	NT	NT	NT	NT	NT	NT	2.9
	11/10/22	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	5/11/23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MW-117	07/31/18	471	0.54	140	4.20	1.5	36.4	8.8	70	233	781	11.6	11.5
	11/27/18	477	0.60	NT	4.40	NT	NT	NT	68.2	NT	NT	NT	49.1
	5/10/19	468	0.72	NT	4.70	NT	NT	NT	68.6	NT	NT	NT	9.5
	10/15/19	435	0.65	144	5.00	1.3	39.2	9.5	76.2	189	897	10.4	8.0
	5/19/20	501	0.637	157	3.81	4.84	43.1	8.57	68.6	196	720	98.0	20.3
	7/19/21	477	0.640	138	7.99	2.81	36.0	8.27	68.6	110	665	156	27.3
	11/10/22	458	0.720	144	3.34	1.77	37.9	8.28	71.3	222	760	33.8	6.3
	5/11/23	490	0.678	174	5.13	4.98	50.2	9.05	73.1	146	771	350	26.3
	7/19/24	477	0.271	107	12.4	<0.1	26.6	8.21	73.4	69.9	577	6.8	39.5
	11/4/25	486	0.754	161	2.97	1.83	40.3	8.82	69.9	229	786	22.8	16

Table 6 - Selected Annual Parameters Results Summary (2018-Present)

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	Alkalinity	Ammonia	Calcium	Chloride	Iron	Magnesium	Potassium	Sodium	Sulfate	TDS	TSS	Turbidity
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*
MCL/GWPS [site std]	--	--	[30]	--	--	--	--	--	--	--	--	--	--
MW-118	07/31/18	427	0.44	126	1.40	0.96	41.1	8.4	57.6	195	703	<4.0	6.0
	11/27/18	435	0.54	NT	2.50	NT	NT	NT	56.7	NT	NT	NT	2.0
	5/10/19	431	0.61	NT	1.80	NT	NT	NT	54.5	NT	NT	NT	10.8
	10/15/19	416	0.50	122	1.40	1.1	41.7	8.5	57.9	191	879	4.8	5.2
	5/19/20	436	0.554	123	<1.00	0.895	41.1	7.92	56.8	199	651	<4	5.1
	7/19/21	483	0.352	122	1.42	0.745	37.9	7.95	57.9	159	693	<4.0	9.3
	11/10/22	446	0.510	123	1.33	0.782	40.6	7.88	60.9	186	679	<4.0	3.5
	5/11/23	436	0.552	132	<1.0	0.986	44	8.44	61.2	173	689	4.6	3.0
	7/19/24	451	<0.1	109	<1.0	<0.1	41.6	8.21	58.8	184	676	<4.0	2.0
	11/4/25	445	0.52	135	1.23	0.903	42.7	8.28	57.4	182	697	<4.0	1.0
MW-123	07/31/18	407	0.35	126	3.10	2.1	35.4	6.2	26.2	139	583	<4.0	4.1
	11/27/18	418	0.49	NT	3.30	NT	NT	NT	27.3	NT	NT	NT	2
	5/10/19	416	0.53	NT	3.20	NT	NT	NT	25.6	NT	NT	NT	4
	10/15/19	396	0.49	122	3.10	2	36	6.4	27.7	168	726	7.2	4.7
	5/19/20	410	0.506	124	2.09	1.86	36.3	6.05	27.6	119	554	<4.0	3.3
	7/19/21	439	0.453	124	2.58	1.89	34.1	6.07	26.9	115	593	<4.0	0.9
	11/10/22	412	0.565	125	2.78	2.03	35.5	5.93	27.9	126	592	<4.0	18.2
	5/11/23	404	0.564	119	3.10	1.73	35.6	5.99	27.7	123	587	<4.0	2.3
	7/19/24	436	0.464	139	3.40	1.70	36.3	6.8	27.4	126	603	4.0	0.8
	11/4/25	426	0.5	137	3.19	1.86	37.1	6.35	27.4	124	591	<4.0	8.6
MW-7A	07/31/18	261	0.03	84.7	6.60	1.3	21.9	6.2	35.6	79.4	395	34.4	22.1
	11/27/18	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	5/10/19	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	10/15/19	73.3	<0.020	44.1	42.20	0.42	9.9	4.6	34.6	62.8	473	4.8	11.1
	5/19/20	442	0.125	111	1.40	3.94	32.3	7.25	40.8	63.2	517	79.0	19.0
	7/19/21	197	<0.100	72.9	32.20	1.52	17.2	5.63	36.9	61.2	450	15.1	37.3
	9/23/21	NT	NT	NT	18.90	NT	NT	NT	NT	NT	NT	NT	17.8
	4/14/22	NT	NT	NT	32.60	NT	NT	NT	NT	NT	NT	NT	197
	11/11/22	436	<0.1	108	<1.0	0.42	29.7	7.0	41.3	61.3	526	<4.0	4.5
	5/11/23	429	0.185	104	<1.0	0.647	30.1	6.87	43.3	59.7	546	14.4	14.0
	7/19/24	466	0.211	119	<1.0	3.34	30.0	7.26	40.8	59.6	537	34.6	40.0
	11/3/25	425	<0.1	115	7.05	2.24	29.6	7.36	40.6	60.2	543	46.5	13.6
~~MW-130~~[1]	07/31/18	485	0.57	205	<1.0	3.4	55	9.8	52.1	393	1040	8.0	5.0
	11/27/18	491	0.67	NT	1.50	NT	NT	NT	52.3	NT	NT	NT	30.0
	5/9/19	483	0.75	NT	2.00	NT	NT	NT	50.5	NT	NT	NT	22.8
	10/15/19	458	0.75	197	1.60	3.4	55.8	10	52.6	425	1170	4.4	4.6
	5/20/20	490	0.762	194	<1.00	3.31	52.2	9.28	55.0	388	1040	15.1	4.3
	7/19/21	518	0.723	197	<1.00	3.79	50.9	9.14	49.0	389	1020	10.3	4.0
	11/10/22	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	5/11/23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
~~MW-131~~[1]	07/31/18	434	0.550	288	6.80	4.3	77.2	10.1	48.5	644	1600	6.8	3.1
	11/27/18	435	0.790	NT	10.00	NT	NT	NT	69.7	NT	NT	NT	9.3
	5/9/19	430	0.820	NT	8.30	NT	NT	NT	59.6	NT	NT	NT	5.8
	10/15/19	430	0.880	417	12.60	5.8	116	12.7	68.3	1390	1290	18.8	1.5
	5/20/20	456	0.985	477	7.72	5.83	123	11.8	64.2	1470	2640	26.4	3.5
	7/19/21	816	0.478	428	502.0	6.4	123	10.7	59.7	368	2260	9.87	2.9
	9/23/21	772	NT	NT	634.0	NT	NT	NT	NT	NT	NT	NT	2.1
	4/14/22	791	NT	NT	551.0	NT	NT	NT	NT	NT	NT	NT	6.2
	11/10/22	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	5/11/23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Table 6 - Selected Annual Parameters Results Summary (2018-Present)

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	Alkalinity	Ammonia	Calcium	Chloride	Iron	Magnesium	Potassium	Sodium	Sulfate	TDS	TSS	Turbidity
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*
MCL/GWPS [site std]	--	--	[30]	--	--	--	--	--	--	--	--	--	--
MW-132	07/31/18	476	0.36	269	6.40	2.1	73.3	11.3	54.3	538	1380	20.0	15.4
	11/27/18	517	0.39	NT	8.70	NT	NT	NT	65.3	NT	NT	NT	33.1
	5/9/19	507	0.54	NT	8.20	NT	NT	NT	74.7	NT	NT	NT	71.7
	10/15/19	489	0.45	296	8.10	3.7	84	13	72	826	1710	37.6	172.9
	5/20/20	467	0.417	422	7.30	1.55	119	11.7	55.0	1440	2390	20.8	NT
	7/19/21	507	0.388	330	6.00	1.32	85.2	10.9	50.5	858	1720	9.6	7.0
	11/10/22	467	0.573	300	4.66	2.78	80.2	10.5	55.5	847	1470	8.7	5.9
	5/11/23	432	0.598	307	5.18	3.44	85.8	11.1	58.8	667	1320	50.6	43.2
	7/19/24	496	0.216	343	3.91	6.43	88.7	11.5	61.3	870	1670	17.0	26.0
	11/3/25	501	0.357	305	4.03	1.14	79.5	11	52.1	653	1420	14.7	16.0
MW-133	07/31/18	452	0.40	206	9.00	4.4	59.4	8.1	23.2	314	1040	6.0	24.3
	11/27/18	531	0.52	NT	11.10	NT	NT	NT	28.3	NT	NT	NT	27.0
	5/9/19	519	0.62	NT	11.70	NT	NT	NT	27.5	NT	NT	NT	10.2
	10/15/19	471	0.46	252	11.20	2.8	76.8	9.3	26.9	565	1340	10.4	19.9
	5/20/20	520	0.385	297	9.98	3.96	88.2	9.09	28.0	709	1510	25.7	27.3
	7/19/21	563	0.689	270	8.53	4.95	74.4	8.75	25.3	569	1390	120	79.3
	11/10/22	418	0.289	161	8.49	4.52	48.4	6.57	17.7	221	737	14.5	17.7
	5/11/23	416	0.375	195	9.06	2.83	61.8	7.49	21.4	297	875	11.2	9.3
	7/19/24	512	0.412	279	10.4	5.9	74.4	9.01	23.8	555	1250	15.0	15.9
	11/3/25	561	0.591	360	10.1	4.56	103	10.5	28.8	693	1540	11.2	18.3
MW-134	6/21/23	515	0.953	249	2.37	10.8	74.1	11.3	118	484	1190	223	357
	10/3/23	487	0.903	204	37.7	5.66	56.8	10.3	115	384	1160	408	312
	4/25/24	522	0.877	202	7.18	3.9	55.8	10.5	146	675	1120	46.0	65.0
	10/24/24	475	0.866	208	5.95	3.44	54.8	11	145	531	1770	65.7	14.0
	5/29/25	479	0.821	223	7.51	7.83	57.9	10.7	127	691	1560	80.8	50.0
	11/4/25	469	0.78	238	5.36	5.39	66.1	11	117	548	1310	64.0	40.0
MW-135	6/21/23	470	0.748	186	3.47	2.01	48	9.3	81.5	374	1010	1700	827
	10/3/23	581	0.790	232	4.34	5.4	59.8	9.91	79.7	380	1050	460	164
	4/25/24	426	0.165	107	46.7	1.07	34.7	9.19	83.6	157	644	98.8	35.0
	10/24/24	421	0.406	141	43.7	0.797	39.1	10.3	79.8	218	731	35.8	22.0
	5/29/25	398	<0.100	101	19.4	0.515	33.4	7.02	40.7	76.1	465	32	40.0
	11/4/25	370	<0.100	101	17.4	0.146	36.9	7.45	41.5	82.9	533	40.2	21.0
MW-136	6/21/23	600	0.805	203	3.8	9.46	58.5	8.18	62.6	151	876	1620	1000
	10/3/23	499	0.431	149	3.26	1.69	44	7.17	65.5	148	737	165	144
	4/25/24	502	0.520	123	12.4	0.416	37.4	8.21	76.6	160	660	42.4	45.0
	10/24/24	452	0.298	119	10.3	0.23	34.1	8.17	65.7	129	672	16.1	29.5
	5/29/25	446	0.425	120	9.3	1.39	34.7	7.55	58.6	13	642	56.8	60.0
	11/4/25	474	0.429	134	3.23	0.1	38.5	7.7	50.5	128	640	8.6	18.2

Table 6 - Selected Annual Parameters Results Summary (2018-Present)

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	Alkalinity	Ammonia	Calcium	Chloride	Iron	Magnesium	Potassium	Sodium	Sulfate	TDS	TSS	Turbidity
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*
MCL/GWPS [site std]	--	--	[30]	--	--	--	--	--	--	--	--	--	--
GU-V-2	07/31/18	684	0.47	439	32.60	<0.050	126	20.9	45.1	876	2280	<4.0	5.9
	11/27/18	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	5/10/19	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	10/15/19	626	0.15	353	37.00	<0.050	106	18.2	44.3	742	1990	21.2	6.5
	5/20/20	506	<0.100	353	23.40	1.3	110	17.3	38.1	1030	2030	14.5	12.1
	7/20/21	638	0.708	375	32.50	0.24	103	17.9	44.7	726	1720	<4.0	6.2
	11/11/22	644	<0.1	280	36.40	<0.1	78.8	15.0	43.3	491	1270	<4.0	0.9
	5/11/23	245	<0.1	278	17.8	<0.1	82.1	15.8	44.9	243	564	<4.0	NT
	7/19/24	470	<0.1	254	33.1	0.129	72.4	15.5	45.1	521	1240	<4.0	3.0
	11/11/25	449	<0.1	260	33.3	1.89	73.7	14.5	43.1	530	1280	183	218.0
GU-VIII-1	5/29/25	486	6.20	354	34.9	1.36	105	14.0	40.6	947	1830	2.7	1.0
	11/11/25	522	5.09	305	41.4	1.42	92.5	13.8	48.2	723	1510	<4.0	7.3

Notes:

Selected Annual Parameters = Intrawell Statistical Parameters & Supplemental Parameters, as per 2023 HMSP.

MCL = U.S. EPA maximum contaminant level

GWPS = Iowa Statewide Groundwater Protection Standard for Contaminants in Groundwater (protected Groundwater Source)

NT = Not Tested

[1] = monitoring wells MW-115, MW-130, & MW-131 sealed August 2022

[2] =monitoring well MW-11 was sealed August 2025

* = MW-2A pump pulled on 5/19/20 to release stuck check ball resulting in higher turbidity

** = MW-11 was damaged during July 2024 event and was therefore unsampleable

Results above MCL or GWPS are highlighted

Table 7 - Detection Monitoring Summary - Appendix I Metals

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TSS	Turbidity
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*
MCL/GWPS	--	0.006	0.01	2	0.004	0.005	0.1	~~0.007~~ 0.0021 (1)	1.3	0.015	0.1	0.05	0.1	0.002	~~0.049~~ 0.035(1)	2	--	--
MW-2A	3/26/08	<0.0060	<0.020	**0.086**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	**0.011**	<0.010	<0.050	<0.0020	<.0030	**0.014**	--	--
MW-2A	5/19/08	<0.0060	<0.020	**0.098**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	**0.0081**	<0.010	<0.050	<0.0020	<.0030	**0.11**	--	--
MW-2A	6/26/08	<0.0060	<0.020	**0.21**	<0.0010	<0.0010	**0.0099**	**0.0034**	**0.032**	<0.0050	**0.0084**	<0.010	<0.050	<0.0020	**0.011**	**0.076**	--	--
MW-2A	8/20/08	<0.0060	<0.020	**0.095**	<0.0010	<0.0010	<0.0030	<0.0030	**0.0041**	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.03**	--	--
MW-2A	9/29/08	<0.0060	<0.020	**0.1**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	**0.005**	<0.010	<0.050	<0.0020	<.0030	**0.012**	--	4.1
MW-2A	3/25/09	<0.0060	<0.020	**0.0914**	<0.0010	<0.0010	<0.0030	<0.0030	**0.0045**	<0.0050	**0.0052**	<0.010	<0.050	<0.0020	<.0030	**0.0394**	--	5.4
MW-2A	9/29/09	<0.0060	<0.020	**0.0889**	<0.0010	<0.0010	<0.0030	<0.0030	**0.0107**	<0.0050	**0.0071**	<0.010	<0.050	<0.0020	<.0030	**0.0735**	--	6.4
MW-2A	3/31/10	<0.0068	<0.020	**0.090**	<0.0010	<0.0010	**0.0032**	<0.0030	**0.0134**	<0.0050	**0.0061**	<0.010	<0.050	<0.0020	<.0030	**0.0659**	--	4.9
MW-2A	9/22/10	<0.0068	<0.020	**0.408**	<0.0010	<0.0010	**0.0127**	**0.0037**	**0.0271**	<0.0050	**0.0094**	<0.010	<0.050	<0.0020	**0.0166**	**0.0174**	--	--
MW-2A	6/16/11	<0.0134	<0.010	**0.083**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	**0.011**	<0.015	<0.003	<0.0020	<0.0050	**0.036**	--	5.5
MW-2A	6/16/11	<0.0134	<0.010	**0.089**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.035**	--	**filtered**
MW-2A	9/27/11	<0.0134	<0.010	**0.093**	<0.0020	<0.0010	**0.0058**	<0.0040	**0.016**	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.043**	--	**7.2**
MW-2A	3/29/12	<0.0010	<0.0010	**0.098**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.028**	--	**11.3**
MW-2A	9/25/12	<0.0010	**0.0013**	**0.078**	<0.0020	<0.0010	**0.0053**	<0.0040	**0.046**	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	**0.13**	--	7.5
MW-2A	9/25/12	<0.0010	**0.0011**	**0.074**	<0.0020	<0.0010	<0.0040	<0.0040	**0.02**	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	**0.074**	--	**filtered**
MW-2A	3/26/13	<0.0010	<0.010	**0.084**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	**0.0254**	--	5
MW-2A	11/20/13	<0.0010	<0.010	**0.087**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	**0.0484**	--	-
MW-2A	5/21/14	<0.0010	<0.010	**0.11**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	**0.016**	--	-
MW-2A	10/7/14	<0.0010	<0.010	**0.099**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	**0.035**	--	3
MW-2A	5/11/15	<0.0010	<0.0010	**0.074**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	**0.048**	<4	3.2
MW-2A	10/13/15	<0.0010	<0.0010	**0.096**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	<0.010	<4	2.1
MW-2A	5/24/16	<0.0010	<0.0010	**0.08**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	<0.010	<4	2.9
MW-2A	11/10/16	<0.0010	<0.0010	**0.073**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	<0.010	<4	2.5
MW-2A	5/15/17	<0.0010	<0.0010	**0.076**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	<0.010	<4	4
MW-2A	10/23/17	<0.0010	<0.0010	**0.072**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.00020	<0.0050	<0.010	<4	3.1
MW-2A	5/19/20	<0.0020	<0.0020	**0.368**	<0.0020	<0.0010	**0.0120**	**0.00987**	**0.0303**	**0.00244**	**0.00951**	<0.0020	<0.002	<0.0020	**0.0152**	<0.025	47.3*	50.9*
MW-2A	5/11/23	<0.0020	<0.002	**0.068**	<0.002	<0.001	<0.002	<0.002	**0.00518**	<0.002	<0.002	<0.002	<0.002	<0.0020	<0.005	<0.025	<4.0	1.5
MW-11	3/26/08	<0.0060	**0.053**	**0.050**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.03**	--	-
MW-11	5/19/08	<0.0060	**0.073**	**0.082**	<0.0010	<0.0010	**0.0046**	<0.0030	**0.007**	<0.0050	**0.0065**	<0.010	<0.050	<0.0020	**0.011**	**0.013**	--	-
MW-11	6/26/08	<0.0060	**0.072**	**0.088**	<0.0010	<0.0010	**0.0048**	<0.0030	**0.0048**	<0.0050	**0.0065**	<0.010	<0.050	<0.0020	**0.011**	**0.012**	--	-
MW-11	8/20/08	<0.0060	**0.069**	**0.050**	<0.0010	<0.0010	<.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0065**	--	-
MW-11	9/29/08	<0.0060	**0.062**	**0.051**	<0.0010	<0.0010	<.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0066**	--	1.1
MW-11	3/25/09	<0.0060	**0.0638**	**0.072**	<0.0010	<0.0010	**0.0041**	<0.0030	**0.0047**	<0.0050	<0.0040	<0.010	<0.050	<0.0020	**0.0077**	**0.0149**	--	63
MW-11	10/1/09	<0.0060	**0.0718**	**0.091**	<0.0010	<0.0010	**0.0061**	<0.0030	**0.0071**	<0.0050	**0.0066**	<0.010	<0.050	<0.0020	**0.0133**	**0.0157**	--	-
MW-11	3/31/10	<0.0068	**0.0788**	**0.128**	<0.0010	<0.0010	**0.0105**	**0.0049**	**0.0119**	<0.0050	**0.012**	<0.010	<0.050	<0.0020	**0.0253**	**0.202**	--	305
MW-11	9/22/10	<0.0068	**0.0771**	**0.060**	<0.0010	<0.0010	<.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	**0.003**	**0.0092**	--	12.3
MW-11	6/16/11	<0.0134	**0.067**	**0.054**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.017**	--	0.5
MW-11	6/16/11	<0.0134	**0.061**	**0.051**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.014**	--	**filtered**
MW-11	9/27/11	<0.0134	**0.067**	**0.055**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.0086**	--	**8.9**
MW-11	3/29/12	<0.0010	**0.077**	**0.051**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	--	--
MW-11	9/24/12	<0.0010	**0.064**	**0.05**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.0158**	--	3.7
MW-11	9/24/12	<0.0010	**0.063**	**0.049**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	--	**filtered**
MW-11	3/26/13	<0.0010	**0.0728**	**0.066**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.0054**	**0.0192**	--	2.9
MW-11	11/20/13	<0.0010	**0.065**	**0.056**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.0114**	--	--
MW-11	5/21/14	<0.0010	**0.066**	**0.051**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	--	5.9

Table 7 - Detection Monitoring Summary - Appendix I Metals

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TSS	Turbidity
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*
MCL/GWPS	--	0.006	0.01	2	0.004	0.005	0.1	~~0.007~~ 0.0021 (1)	1.3	0.015	0.1	0.05	0.1	0.002	~~0.049~~ 0.035(1)	2	--	--
MW-11	10/7/14	<0.0010	**0.063**	**0.047**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	--	2.5
MW-11	5/11/15	<0.0010	**0.081**	**0.055**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.012**	39.2	21.4
MW-11	10/13/15	<0.0010	**0.077**	**0.061**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.012**	38	11.1
MW-11	5/24/16	<0.0010	**0.06**	**0.054**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.01**	34.4	9.1
MW-11	11/9/16	<0.0010	**0.06**	**0.049**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.014**	11.2	11.3
MW-11	5/15/17	<0.0010	**0.06**	**0.052**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	20.8	16.6
MW-11	10/23/17	<0.0010	**0.065**	**0.051**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	18	10.4
MW-11	5/19/20	<0.0020	**0.0811**	**0.0457**	<0.0020	<0.0010	<0.0020	<0.0020	<0.0050	<0.0020	<0.0020	<0.0020	<0.002	<0.0020	<0.0050	<0.025	17.2	19.2
~~MW-11~~[3]	5/11/23	<0.0020	**0.0687**	**0.0483**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.0020	<0.005	<0.025	9.5	4.7
MW-11R	11/3/25	<0.0020	**0.0272**	**0.101**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	**0.00408**	<0.002	<0.002	<0.002	<0.005	<0.025	8	15.7
MW-110	3/26/08	<0.0060	<0.020	**0.056**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.038**	--	-
MW-110	5/19/08	<0.0060	<0.020	**0.130**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0076**	--	-
MW-110	6/26/08	<0.0060	<0.020	**0.057**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0068**	--	-
MW-110	8/20/08	<0.0060	<0.020	**0.091**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0084**	--	-
MW-110	9/29/08	<0.0060	<0.020	**0.058**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0068**	--	1.9
MW-110	3/25/09	<0.0060	<0.020	**0.057**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0057**	--	4.1
MW-110	10/1/09	<0.0060	<0.020	**0.140**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0053**	--	-
MW-110	3/31/10	<0.0068	<0.020	**0.063**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.006**	--	42
MW-110	9/22/10	<0.0068	<0.020	**0.086**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.009**	--	2.8
MW-110	6/16/11	<0.0134	<0.010	**0.088**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.0020	<0.0050	**0.01**	--	2.2
MW-110	6/16/11	<0.0134	<0.010	**0.087**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.0020	<0.0050	**0.026**	--	**filtered**
MW-110	9/27/11	<0.0134	<0.010	**0.091**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.0020	<0.0050	**0.0074**	--	**4.5**
MW-110	3/29/12	<0.0010	**0.0021**	**0.050**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	<0.010	--	**4.2**
MW-110	9/25/12	<0.0010	**0.0019**	**0.060**	<0.0002	<0.0020	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	<0.010	--	4.1
MW-110	9/25/12	<0.0010	**0.002**	**0.058**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	**0.012**	--	**filtered**
MW-110	3/26/13	<0.0010	**0.0023**	**0.062**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	**0.012**	--	3.2
MW-110	11/20/13	<0.0010	<0.010	**0.13**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	<0.010	--	--
MW-110	5/21/14	<0.0010	**0.002**	**0.052**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	<0.010	--	4.1
MW-110	10/7/14	<0.0010	**0.0016**	**0.061**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	<0.010	--	4
MW-110	5/11/15	<0.0010	**0.001**	**0.098**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	<0.010	<4	2.9
MW-110	10/13/15	<0.0010	<0.0010	**0.12**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	<0.010	<4	3.1
MW-110	5/24/16	<0.0010	<0.0010	**0.10**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	<0.010	<4	7.3
MW-110	11/9/16	<0.0010	**0.0017**	**0.07**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	<0.010	<4	6.1
MW-110	5/15/17	<0.0010	<0.0010	**0.11**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	<0.010	<4	5
MW-110	10/23/17	<0.0010	<0.0010	**0.11**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.0030	<0.00020	<0.0050	<0.010	<4	3.2
MW-110	5/19/20	<0.0020	**0.0021**	**0.0522**	<0.0020	<0.0010	<0.0020	<0.0020	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.025	4.1	15.3
MW-110	5/11/23	<0.0020	<0.002	**0.11**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.0020	<0.005	<0.025	4.4	3
MW-115	3/26/08	<0.0060	<0.020	**0.11**	<0.0010	<0.0010	0.0037	<0.0030	**0.024**	<0.0050	**0.0078**	<0.010	<0.050	<0.0020	**0.011**	**0.03**	--	-
MW-115	5/19/08	<0.0060	<0.020	**0.052**	<0.0010	<0.0010	0.0060	<0.0030	**0.0065**	<0.0050	**0.013**	<0.010	**0.1**	<0.0020	<.0030	**0.068**	--	-
MW-115	6/26/08	<0.0060	<0.020	**0.094**	<0.0010	<0.0010	<0.0030	<0.0030	**0.012**	<0.0050	**0.0045**	<0.010	<0.050	<0.0020	**0.0037**	**0.021**	--	-
MW-115	8/20/08	<0.0060	<0.020	**0.065**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0078**	--	-
MW-115	9/29/08	<0.0060	**0.03**	**0.079**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.013**	--	5.6
MW-115	3/25/09	<0.0060	<0.020	**0.0655**	<0.0010	<0.0010	**0.0049**	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0233**	--	3.7

Table 7 - Detection Monitoring Summary - Appendix I Metals

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TSS	Turbidity
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*
MCL/GWPS	--	0.006	0.01	2	0.004	0.005	0.1	~~0.007~~ 0.0021 (1)	1.3	0.015	0.1	0.05	0.1	0.002	~~0.049~~ 0.035(1)	2	--	--
MW-115	9/30/09	<0.0060	**0.032**	**0.0866**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0112**	--	8.7
MW-115	3/31/10	<0.0068	**0.0339**	**0.075**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	<0.0050	--	3.7
MW-115	9/22/10	<0.0068	<0.010	**0.234**	<0.0010	<0.0010	**0.0213**	**0.0069**	**0.0409**	**0.0126**	**0.0256**	<0.010	<0.050	<0.0020	**0.0479**	**0.0376**	--	47.1
MW-115	6/16/11	<0.0134	<0.010	**0.048**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.022**	--	6
MW-115	6/16/11	<0.0134	<0.010	**0.041**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.017**	--	**filtered**
MW-115	9/27/11	<0.0134	**0.039**	**0.097**	<0.0020	<0.0010	**0.0042**	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	**0.006**	**0.013**	--	**21.5**
MW-115	3/28/12	<0.0010	**0.033**	**0.088**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.01**	--	**28.9**
MW-115	9/25/12	<0.0010	**0.04**	**0.096**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.0082**	**0.013**	--	22.1
MW-115	9/25/12	<0.0010	**0.041**	**0.073**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	--	**filtered**
MW-115	3/26/13	<0.0010	**0.0365**	**0.082**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	--	15.7
MW-115	11/20/13	<0.0010	**0.0417**	**0.074**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	--	-
MW-115	5/21/14	<0.0010	**0.033**	**0.09**	<0.0020	<0.0010	**0.0047**	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.0084**	**0.011**	--	5.3
MW-115	10/7/14	<0.0010	**0.034**	**0.2**	<0.0020	<0.0010	**0.02**	**0.0078**	**0.073**	**0.015**	**0.022**	<0.015	<0.003	**0.00023**	**0.052**	**0.061**	--	50.3
MW-115	6/2/15	<0.0010	**0.039**	**0.13**	<0.0020	<0.0010	**0.011**	**0.039**	**0.024**	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.024**	**0.039**	297	98
MW-115	10/14/15	<0.0010	**0.033**	**0.084**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.0069**	**0.016**	51.2	47.1
MW-115	10/14/15	<0.0010	**0.031**	**0.092**	<0.0020	<0.0010	**0.0047**	<0.0040	**0.011**	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.01**	**0.154**	--	47.1
MW-115	5/24/16	<0.0010	**0.034**	**0.063**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	18	10.2
MW-115	11/9/16	<0.0010	**0.032**	**0.060**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	10.4	4.3
MW-115	5/15/17	<0.0010	**0.018**	**0.067**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	<4	19.6
MW-115	10/23/17	<0.0010	**0.022**	**0.064**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	<4	12.8
MW-115	5/19/20	<0.0020	**0.022**	**0.0676**	<0.0020	<0.0010	<0.0020	<0.0020	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.025	15.5	14.9
~~MW-115~~[2]	5/11/23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MW-117	10/7/14	<0.0010	**0.037**	**0.12**	<0.0020	<0.0010	**0.0099**	<0.004	**0.014**	<0.0050	**0.01**	<0.015	<0.003	<0.0002	**0.019**	**0.026**	--	33.9
MW-117	5/11/15	<0.0010	**0.05**	**0.086**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.005**	**0.019**	118	70.3
MW-117	10/13/15	<0.0010	**0.031**	**0.094**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.0052**	**0.016**	43.2	33.1
MW-117	5/24/16	<0.0010	**0.02**	**0.07**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.01	20	19.3
MW-117	11/10/16	<0.0010	**0.032**	**0.066**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.01	5.6	11
MW-117	5/15/17	<0.0010	**0.011**	**0.064**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.01	14.8	13.1
MW-117	10/23/17	<0.0010	**0.035**	**0.097**	<0.0020	<0.0010	**0.0047**	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.0089**	**0.013**	202	40.7
MW-117	5/19/20	<0.0020	**0.0421**	**0.0903**	<0.0020	<0.0010	**0.00389**	<0.0020	<0.0050	**0.0021**	**0.00501**	<0.0020	<0.0020	<0.0020	**0.00612**	<0.025	98	20.3
MW-117	5/11/23	<0.002	**0.0349**	**0.102**	<0.002	<0.001	**0.00245**	**0.00216**	**0.00531**	**0.00252**	**0.00373**	<0.002	<0.002	<0.002	<0.005	<0.025	350	26.3
MW-117	7/18/23	NT	NT	NT	NT	NT	NT	<0.0020	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MW-118	10/7/14	<0.0010	**0.017**	**0.079**	<0.0020	<0.0010	<0.004	<0.004	<0.01	<0.005	<0.01	<0.015	<0.003	<0.0002	<0.0050	**0.011**	--	14.9
MW-118	5/11/15	<0.0010	**0.025**	**0.069**	<0.0020	<0.0010	<0.004	<0.0028	<0.01	<0.005	<0.01	<0.015	<0.003	<0.0002	<0.0050	**0.011**	4.8	4.4
MW-118	10/13/15	<0.0010	**0.016**	**0.082**	<0.0020	<0.0010	<0.004	<0.0028	<0.01	<0.005	<0.01	<0.015	<0.003	<0.0002	<0.0050	<0.01	8	7
MW-118	5/24/16	<0.0010	**0.011**	**0.08**	<0.0020	<0.0010	<0.004	<0.0028	<0.01	<0.005	<0.01	<0.015	<0.003	<0.0002	<0.0050	<0.01	14.4	11.3
MW-118	11/10/16	<0.0010	**0.015**	**0.075**	<0.0020	<0.0010	<0.004	<0.0028	<0.01	<0.005	<0.01	<0.015	<0.003	<0.0002	<0.0050	<0.01	<4	2.5
MW-118	5/15/17	<0.0010	**0.014**	**0.074**	<0.0020	<0.0010	<0.004	<0.0028	<0.01	<0.005	<0.01	<0.015	<0.003	<0.0002	<0.0050	<0.01	5.2	--
MW-118	10/23/17	<0.0010	**0.02**	**0.068**	<0.0020	<0.0010	<0.004	<0.0028	<0.01	<0.005	<0.01	<0.015	<0.003	<0.0002	<0.0050	<0.01	<4	5.6
MW-118	5/19/20	<0.0020	**0.0129**	**0.072**	<0.0020	<0.0010	<0.0020	<0.0020	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.025	<4	5.1
MW-118	5/11/23	<0.002	**0.0178**	**0.0794**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.025	4.6	3
MW-123	10/7/14	<0.0010	**0.045**	**0.038**	<0.002	<0.0010	<0.0010	<0.004	<0.0010	<0.005	<0.0010	<0.0015	<0.0030	<0.00020	<0.0050	**0.024**	--	7.3
MW-123	5/11/15	<0.0010	**0.045**	**0.036**	<0.002	<0.0010	<0.0010	<0.0028	<0.0010	<0.005	<0.0010	<0.0015	<0.0030	<0.00020	<0.0050	**0.011**	5.6	2.5

Table 7 - Detection Monitoring Summary - Appendix I Metals

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TSS	Turbidity
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*
MCL/GWPS	--	0.006	0.01	2	0.004	0.005	0.1	~~0.007~~ 0.0021 (1)	1.3	0.015	0.1	0.05	0.1	0.002	~~0.049~~ 0.035(1)	2	--	--
MW-123	10/13/15	<0.0010	**0.045**	**0.036**	<0.002	<0.0010	<0.004	<0.0028	<0.01	<0.005	<0.0010	<0.0015	<0.0030	<0.00020	<0.0050	<0.01	6	6
MW-123	5/24/16	<0.0010	**0.044**	**0.034**	<0.002	<0.0010	<0.004	<0.0028	<0.01	<0.005	<0.0010	<0.0015	<0.0030	<0.00020	<0.0050	<0.01	5.6	7.1
MW-123	11/9/16	<0.0010	**0.043**	**0.034**	<0.002	<0.0010	<0.004	<0.0028	<0.01	<0.005	<0.0010	<0.0015	<0.0030	<0.00020	<0.0050	<0.01	<4	2
MW-123	5/15/17	<0.0010	**0.043**	**0.035**	<0.002	<0.0010	<0.004	<0.0028	<0.01	<0.005	<0.0010	<0.0015	<0.0030	<0.00020	<0.0050	<0.01	4.8	5.8
MW-123	10/23/17	<0.0010	**0.04**	**0.033**	<0.002	<0.0010	<0.004	<0.0028	<0.01	<0.005	<0.0010	<0.0015	<0.0030	<0.00020	<0.0050	<0.01	6	5
MW-123	5/19/20	<0.0020	**0.0432**	**0.0325**	<0.0020	<0.0010	<0.0020	<0.0020	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.025	<4	3.3
MW-123	5/11/23	<0.002	**0.0431**	**0.0311**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.025	<4.0	2.3
MW-7A	9/29/09	<0.0060	<0.020	**0.127**	<0.0010	<0.0010	**0.0193**	<0.0030	**0.0081**	<0.0050	**0.0148**	<0.010	<0.050	<0.0020	**0.0141**	**0.0358**	--	111
MW-7A	3/31/10	<0.0068	<0.020	**0.181**	<0.0010	<0.0010	**0.0299**	**0.0063**	**0.0217**	<0.0050	**0.0451**	<0.010	<0.050	<0.0020	**0.0386**	**0.0651**	--	39
MW-7A	9/22/10	<0.0068	**0.0358**	**0.133**	<0.0010	<0.0010	**0.0102**	<0.0030	**0.0051**	**0.0064**	**0.0074**	<0.010	<0.050	<0.0020	**0.0115**	**0.0233**	--	6.1
MW-7A	6/16/11	<0.0134	**0.018**	**0.089**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.018**	--	1.7
MW-7A	6/16/11	<0.0134	**0.019**	**0.088**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.022**	--	**filtered**
MW-7A	9/27/11	<0.0134	**0.019**	**0.034**	<0.0020	<0.0010	**0.0085**	<0.0040	**0.016**	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.071**	--	**7.8**
MW-7A	3/29/12	<0.001	**0.029**	**0.100**	<0.0020	<0.0010	**0.0094**	<0.0040	**0.014**	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.01**	**0.061**	--	**15.3**
MW-7A	9/25/12	<0.0010	**0.013**	**0.045**	<0.0020	<0.0010	0.0098	<0.0040	**0.012**	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.068**	--	3
MW-7A	9/25/12	<0.0010	**0.0083**	**0.043**	<0.0020	<0.0010	<0.0098	<0.0040	**0.01**	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.05**	--	**filtered**
MW-7A	3/26/13	<0.0010	**0.0155**	**0.055**	<0.0020	<0.0010	0.0089	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.051**	--	1.7
MW-7A	11/20/13	<0.0010	**0.0064**	**0.023**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.0206**	--	-
MW-7A	5/21/14	<0.0010	**0.02**	**0.055**	<0.0020	<0.0010	**0.0042**	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.021**	--	-
MW-7A	10/7/14	<0.0010	**0.014**	**0.038**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.01	--	1.4
MW-7A	5/11/15	<0.0010	**0.0082**	**0.023**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.022**	<4	4.8
MW-7A	10/13/15	<0.0010	**0.034**	**0.093**	<0.0020	<0.0010	**0.0053**	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.013**	33.2	20
MW-7A	5/24/16	<0.0010	**0.0085**	**0.073**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.01**	11.2	30.1
MW-7A	11/10/16	<0.0010	**0.010**	**0.071**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	**0.0063**	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.04**	32.4	34.9
MW-7A	5/15/17	<0.0010	**0.011**	**0.040**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.10**	12.8	20.1
MW-7A	10/23/17	<0.0010	**0.011**	**0.040**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.057**	10.8	11.7
MW-7A	5/19/20	<0.0020	**0.0488**	**0.0932**	<0.0020	<0.0010	**0.00404**	<0.0020	<0.0050	<0.0020	**0.00443**	<0.0020	<0.0020	<0.0020	<0.0050	<0.025	79	19
MW-7A	5/11/23	<0.002	**0.0156**	**0.0679**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.0020	<0.005	<0.025	14.4	14
MW-130	9/29/09	<0.0060	**0.0218**	**0.0616**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0211**	--	19.5
MW-130	3/31/10	<0.0068	**0.0348**	**0.041**	<0.0010	<0.0010	<0.0030	<0.0030	<0.0040	<0.0050	<0.0040	<0.010	<0.050	<0.0020	<.0030	**0.0072**	--	4.3
MW-130	9/22/10	<0.0068	**0.0531**	**0.103**	<0.0010	<0.0010	**0.0104**	<0.0030	**0.0088**	**0.008**	**0.0099**	<0.010	<0.050	<0.0020	**0.0204**	**0.027**	--	23.8
MW-130	6/16/11	<0.0134	**0.028**	**0.061**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.098**	--	9.3
MW-130	6/16/11	<0.0134	**0.025**	**0.059**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.11**	--	**filtered**
MW-130	9/27/11	<0.0134	**0.058**	**0.041**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.016**	--	**8.8**
MW-130	3/28/12	<0.0010	**0.060**	**0.032**	<0.0020	<0.0010	**0.0041**	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.010	--	-
MW-130	9/24/12	<0.0010	**0.057**	**0.032**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.010	--	-
MW-130	9/24/12	<0.0010	**0.061**	**0.031**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.010	--	**filtered**
MW-130	3/26/13	<0.0010	**0.0651**	**0.047**	<0.0020	<0.0010	**0.0048**	<0.0040	**0.015**	**0.005**	<0.010	<0.015	<0.003	<0.0002	**0.0065**	**0.0393**	--	8.3
MW-130	11/20/13	<0.0010	**0.0661**	**0.029**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	**0.0115**	--	-
MW-130	5/21/14	<0.0010	**0.073**	**0.039**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	**0.011**	--	6.9
MW-130	10/7/14	<0.0010	**0.034**	**0.048**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	**0.016**	--	2.4
MW-130	6/2/15	<0.0010	**0.063**	**0.027**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.010	5.2	21.3
MW-130	10/13/15	<0.0010	**0.074**	**0.030**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.010	17.2	6
MW-130	5/24/16	<0.0010	**0.096**	**0.033**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.010	12	31

Table 7 - Detection Monitoring Summary - Appendix I Metals

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TSS	Turbidity
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*
MCL/GWPS	--	0.006	0.01	2	0.004	0.005	0.1	~~0.007~~ 0.0021 (1)	1.3	0.015	0.1	0.05	0.1	0.002	~~0.049~~ 0.035(1)	2	--	--
MW-130	11/9/16	<0.0010	**0.059**	**0.025**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.010	8.4	2.6
MW-130	5/15/17	<0.0010	**0.059**	**0.027**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.010	10.8	10
MW-130	10/23/17	<0.0010	**0.06**	**0.025**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.010	5.2	4.1
MW-130	5/20/20	<0.0020	**0.0648**	**0.0267**	<0.0020	<0.0010	<0.0020	<0.0020	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.025	15.1	4.3
~~MW-130~~[2]	5/11/23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MW-131	9/29/09	<0.0060	**0.0235**	**0.0469**	<0.0010	<0.0010	**0.0032**	**0.0057**	**0.0044**	<0.0050	**0.0121**	<0.010	<0.050	<0.0020	**0.0064**	**0.0393**	--	88.9
MW-131	3/31/10	<0.0068	**0.0615**	**0.023**	<0.0010	<0.0010	**0.0047**	<0.0030	<0.0040	<0.0050	**0.0089**	<0.010	<0.050	<0.0020	<.0030	**0.0261**	--	43
MW-131	9/22/10	<0.0068	**0.103**	**0.063**	<0.0010	<0.0010	**0.0099**	**0.0032**	**0.0066**	**0.0091**	**0.0152**	<0.010	<0.050	<0.0020	**0.0138**	**0.0252**	--	5.1
MW-131	6/16/11	<0.0134	**0.024**	**0.077**	<0.0010	<0.0010	**0.011**	**0.004**	<0.010	**0.011**	**0.014**	<0.015	<0.003	<0.0020	**0.021**	**0.041**	--	523
MW-131	6/16/11	<0.0134	**0.02**	**0.015**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.015**	--	**filtered**
MW-131	9/27/11	<0.0134	**0.055**	**0.017**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.02**	--	**17.1**
MW-131	3/28/12	<0.0010	**0.036**	**0.026**	<0.0020	<0.001	**0.0043**	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.0065**	<0.010	--	-
MW-131	9/24/12	<0.0010	**0.056**	**0.026**	<0.0020	<0.001	**0.0048**	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.0051**	**0.026**	--	9.9
MW-131	9/24/12	<0.0010	**0.037**	**0.016**	<0.0020	<0.001	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.0163**	--	**filtered**
MW-131	3/26/13	<0.0010	**0.0657**	**0.047**	<0.0020	<0.001	**0.0048**	<0.0040	<0.010	**0.005**	<0.010	<0.015	<0.003	<0.0002	**0.0065**	**0.0393**	--	12.3
MW-131	11/20/13	<0.0010	**0.0585**	**0.015**	<0.0020	<0.001	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	--	-
MW-131	5/21/14	<0.0010	**0.16**	**0.16**	<0.0020	0.0018	**0.024**	**0.0086**	**0.031**	**0.024**	**0.026**	<0.015	<0.003	**0.00045**	**0.048**	**0.098**	--	16.4
MW-131	10/7/14	<0.0010	**0.056**	**0.015**	<0.0020	<0.001	<0.004	<0.004	<0.01	**0.0058**	<0.01	**0.016**	<0.003	<0.0002	<0.0050	<0.010	--	2.3
MW-131	6/2/15	<0.0010	**0.058**	**0.014**	<0.0020	<0.001	<0.004	<0.0028	<0.01	<0.0050	<0.01	<0.015	<0.003	<0.0002	<0.0050	<0.010	11.2	11.5
MW-131	10/13/15	<0.0010	**0.070**	**0.021**	<0.0020	<0.001	<0.004	<0.0028	<0.01	<0.0050	<0.01	<0.015	<0.003	<0.0002	<0.0050	**0.014**	25.6	9.1
MW-131	5/24/16	<0.0010	**0.046**	**0.012**	<0.0020	<0.001	<0.004	**0.0028**	<0.01	<0.0050	<0.01	<0.015	<0.003	<0.0002	<0.0050	<0.010	7.2	7.1
MW-131	11/9/16	<0.0010	**0.046**	**0.011**	<0.0020	<0.001	<0.004	<0.0028	<0.01	**0.0061**	<0.01	<0.015	<0.003	<0.0002	<0.0050	**0.017**	12	4.4
MW-131	5/15/17	<0.0010	**0.053**	**0.011**	<0.0020	<0.001	<0.004	**0.0037**	<0.01	<0.0050	<0.01	<0.015	<0.003	<0.0002	<0.0050	**0.011**	16	8
MW-131	10/23/17	<0.0010	**0.045**	**0.011**	<0.0020	<0.001	<0.004	<0.0028	<0.01	<0.0050	<0.01	<0.015	<0.003	<0.0002	<0.0050	<0.010	9.6	2.7
MW-131	5/20/20	<0.0020	**0.0462**	**0.0129**	<0.0020	<0.0010	<0.0020	**0.00308**	<0.0050	<0.0020	**0.00376**	<0.0020	<0.0020	<0.0020	<0.0050	<0.025	26.4	3.5
~~MW-131~~[2]	5/11/23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MW-132	9/29/09	<0.0060	**0.0362**	**0.51**	**0.0022**	<0.0010	**0.0574**	**0.0271**	**0.0659**	**0.0276**	**0.069**	<0.010	<0.050	<0.0020	**0.127**	**0.0573**	--	660
MW-132	3/31/10	<0.0068	**0.0351**	**0.563**	**0.0024**	<0.0010	**0.0705**	**0.0286**	**0.0688**	**0.036**	**0.0758**	<0.010	<0.050	<0.0020	**0.144**	<0.0050	--	28.7
MW-132	9/22/10	<0.0068	**0.0276**	**0.221**	<0.0010	<0.0010	**0.0265**	**0.0085**	**0.0204**	**0.0182**	**0.027**	<0.010	<0.050	<0.0020	**0.0498**	**0.0319**	--	1000
MW-132	6/16/11	<0.0134	**0.032**	**0.320**	<0.0010	<0.0010	**0.037**	**0.013**	**0.036**	**0.028**	**0.037**	<0.015	<0.003	<0.0020	**0.081**	**0.11**	--	7.21
MW-132	6/16/11	<0.0134	**0.017**	**0.064**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	**0.0059**	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.033**	--	**filtered**
MW-132	9/27/11	<0.0134	**0.031**	**0.130**	<0.0020	<0.0010	**0.011**	<0.0040	<0.010	**0.0057**	**0.012**	<0.015	<0.003	<0.0020	**0.019**	**0.026**	--	**509**
MW-132	3/28/12	<0.0010	**0.020**	**0.15**	<0.0020	<0.0010	**0.017**	<0.0040	**0.021**	**0.026**	**0.024**	<0.015	<0.003	<0.0002	**0.032**	**0.059**	--	-
MW-132	9/24/12	<0.0010	**0.010**	**0.12**	<0.0020	<0.0010	**0.012**	**0.0051**	**0.014**	**0.0051**	**0.015**	<0.015	<0.003	<0.0002	**0.027**	**0.044**	--	107
MW-132	9/24/12	<0.0010	**0.0023**	**0.042**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.0178**	--	**filtered**
MW-132	3/26/13	<0.0010	**0.0126**	**0.098**	<0.0020	<0.0010	**0.012**	<0.0040	**0.012**	**0.0098**	**0.013**	<0.015	<0.003	<0.0002	**0.023**	**0.033**	--	12.7
MW-132	11/20/13	<0.0010	**0.0063**	**0.043**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	**0.01**	<0.015	<0.003	<0.0002	<0.0050	**0.0198**	--	-
MW-132	5/21/14	<0.0010	**0.015**	**0.074**	<0.0020	<0.0010	**0.014**	**0.0042**	<0.010	**0.0052**	**0.014**	<0.015	<0.003	<0.0002	**0.013**	**0.032**	--	17.8
MW-132	10/7/14	<0.0010	**0.0064**	**0.036**	<0.0020	<0.0010	<0.004	<0.0042	<0.010	<0.0052	<0.014	<0.015	<0.003	<0.0002	<0.005	**0.019**	--	12.9
MW-132	6/2/15	<0.0010	**0.0068**	**0.044**	<0.0020	<0.0010	<0.004	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	**0.019**	56.4	43.2
MW-132	10/13/15	<0.0010	**0.0063**	**0.055**	<0.0020	<0.0010	<0.004	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	**0.015**	31.6	20
MW-132	5/24/16	<0.0010	**0.0071**	**0.035**	<0.0020	<0.0010	<0.004	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	**0.015**	25.6	17.1
MW-132	11/9/16	<0.0010	**0.0037**	**0.026**	<0.0020	<0.0010	<0.004	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	**0.014**	18.8	14
MW-132	5/15/17	<0.0010	**0.0030**	**0.021**	<0.0020	<0.0010	<0.004	**0.0030**	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	**0.013**	16	23.1

Table 7 - Detection Monitoring Summary - Appendix I Metals

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TSS	Turbidity
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*
MCL/GWPS	--	0.006	0.01	2	0.004	0.005	0.1	~~0.007~~ 0.0021 [1]	1.3	0.015	0.1	0.05	0.1	0.002	~~0.049~~ 0.035[1]	2	--	--
MW-132	10/23/17	<0.0010	**0.0049**	**0.018**	<0.0020	<0.0010	<0.004	<0.0028	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.010	5.2	17
MW-132	5/20/20	<0.0020	**0.00358**	**0.0177**	<0.0020	<0.0010	<0.0020	**0.00332**	<0.0050	<0.0020	**0.00617**	<0.0020	<0.0020	<0.0020	<0.0050	<0.025	20.8	--
MW-132	5/11/23	<0.0020	**0.0262**	**0.0227**	<0.0020	<0.0010	<0.0036	<0.002	<0.0050	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0050	<0.025	50.6	43.2
MW-133	9/29/09	<0.0060	**0.0206**	**0.102**	<0.0010	<0.0010	**0.0046**	**0.004**	**0.0058**	<0.0050	**0.0088**	<0.010	<0.050	<0.0020	**0.0091**	**0.041**	--	97.1
MW-133	9/22/10	<0.0060	**0.16**	**0.166**	<0.0010	<0.0010	**0.0191**	**0.0071**	**0.0136**	**0.0123**	**0.0224**	<0.010	<0.050	<0.0020	**0.0357**	**0.0314**	--	17.3
MW-133	6/16/11	<0.0134	**0.04**	**0.065**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	**0.0053**	<0.010	<0.015	<0.003	<0.0020	**0.0092**	**0.03**	--	4.6
MW-133	6/16/11	<0.0134	**0.029**	**0.04**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.018**	--	**filtered**
MW-133	9/27/11	<0.0134	**0.033**	**0.037**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0020	<0.0050	**0.015**	--	6.3
MW-133	3/29/12	<0.0010	**0.016**	**0.064**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.0067**	**0.025**	--	-
MW-133	9/24/12	<0.0010	**0.045**	**0.076**	<0.0020	<0.0010	**0.0056**	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.013**	**0.0284**	--	29.3
MW-133	9/24/12	<0.0010	**0.028**	**0.042**	<0.0020	<0.0010	**0.0056**	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.0184**	--	**filtered**
MW-133	3/26/13	<0.0010	**0.0529**	**0.061**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	<0.010	--	9.1
MW-133	11/20/13	<0.0010	**0.0553**	**0.063**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	<0.0050	**0.0105**	--	-
MW-133	5/21/14	<0.0010	**0.030**	**0.18**	<0.0020	**0.0023**	**0.018**	**0.0045**	**0.013**	**0.0095**	**0.016**	<0.015	<0.003	<0.0002	**0.029**	**0.041**	--	11.1
MW-133	10/7/14	<0.0010	**0.092**	**0.078**	<0.0020	<0.0010	<0.0040	<0.004	<0.010	<0.005	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.01	--	14.1
MW-133	5/11/15	<0.0010	**0.083**	**0.082**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.005	<0.010	<0.015	<0.003	<0.0002	<0.005	**0.014**	53.2	30.2
MW-133	10/14/15	<0.0010	**0.048**	**0.06**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	<0.005	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.01	9.6	7.8
MW-133	10/14/15	<0.0010	**0.041**	**0.052**	<0.0020	<0.0010	<0.0040	<0.004	<0.010	<0.005	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.01	--	7.8
MW-133	5/24/16	<0.0010	**0.039**	**0.042**	<0.0020	<0.0010	<0.0040	<0.004	<0.010	<0.005	<0.010	<0.015	<0.003	<0.0002	<0.005	**0.01**	4.4	9.3
MW-133	11/9/16	<0.0010	**0.030**	**0.039**	<0.0020	<0.0010	<0.0040	<0.0028	<0.010	**0.006**	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.01	5.6	4.5
MW-133	5/15/17	<0.0010	**0.032**	**0.031**	<0.0020	<0.0010	<0.0040	**0.0030**	<0.010	<0.005	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.01	5.6	8.4
MW-133	10/23/17	<0.0010	**0.044**	**0.024**	<0.0020	<0.0010	<0.0040	**0.0029**	<0.010	<0.005	<0.010	<0.015	<0.003	<0.0002	<0.005	<0.01	6	8.3
MW-133	5/20/20	<0.0020	**0.0463**	**0.0296**	<0.0020	<0.0010	<0.0020	**0.00242**	<0.0050	<0.0020	**0.00272**	<0.0020	<0.0020	<0.0020	<0.0050	<0.025	25.7	27.3
MW-133	5/11/23	<0.002	**0.0262**	**0.0227**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.0020	<0.005	<0.025	50.6	43.2
MW-134	6/21/23	<0.002	**0.0211**	**0.0586**	<0.002	<0.001	**0.0113**	**0.0076**	**0.0205**	**0.0108**	**0.0214**	<0.002	<0.002	<0.002	**0.015**	**0.0532**	223	357
MW-134	10/3/23	<0.002	**0.0229**	**0.0483**	<0.002	<0.001	**0.00392**	**0.0025**	**0.00749**	**0.0032**	**0.00718**	<0.002	<0.002	<0.002	**0.00557**	**0.028**	408	312
MW-134	4/25/24	<0.002	**0.0285**	**0.0237**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.025	46	65
MW-134	10/24/24	<0.002	**0.0227**	**0.0231**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.025	65.7	14
MW-134	5/29/25	<0.002	**0.0293**	**0.0569**	<0.002	<0.001	**0.00489**	<0.002	**0.0064**	**0.00221**	**0.0388**	<0.002	<0.002	<0.002	<0.005	<0.025	80.8	50
MW-134	11/4/25	<0.002	**0.036**	**0.024**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.025	64	40
MW-135	6/21/23	<0.002	**0.0066**	**0.0833**	<0.002	<0.001	**0.00224**	**0.00256**	**0.00779**	<0.002	**0.00522**	<0.002	<0.002	<0.002	<0.005	<0.025	1700	827
MW-135	10/3/23	<0.002	**0.0108**	**0.0832**	<0.002	<0.001	**0.00486**	**0.00689**	**0.0195**	**0.00536**	**0.0161**	<0.002	<0.002	<0.002	**0.0118**	**0.052**	460	164
MW-135	4/25/24	<0.002	**0.00533**	**0.0996**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	**0.0024**	<0.002	<0.002	<0.002	<0.005	<0.025	98.8	35
MW-135	10/24/24	<0.002	**0.00400**	**0.0753**	<0.002	<0.001	<0.002	<0.002	<0.005	**0.00231**	**0.00252**	<0.002	<0.002	<0.002	<0.005	<0.025	35.8	22
MW-135	5/29/25	<0.002	<0.002	**0.138**	<0.002	<0.001	<0.002	<0.002	<0.005	**0.00206**	<0.002	<0.002	<0.002	<0.002	<0.005	<0.025	32	40
MW-135	11/4/25	<0.002	<0.0020	**0.119**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.025	40.2	21
MW-136	6/21/23	<0.002	**0.0195**	**0.196**	<0.002	<0.001	**0.0118**	**0.00947**	**0.037**	**0.00987**	**0.0256**	<0.002	<0.002	<0.002	<0.005	**0.0547**	876	1000
MW-136	10/3/23	<0.002	**0.00974**	**0.149**	<0.002	<0.001	**0.00282**	<0.002	**0.00847**	<0.002	**0.00495**	<0.002	<0.002	<0.002	**0.00667**	<0.025	165	144
MW-136	4/25/24	<0.002	**0.00706**	**0.125**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	**0.00206**	<0.002	<0.002	<0.002	<0.005	<0.025	42.4	45
MW-136	10/24/24	<0.002	**0.00502**	**0.122**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.002	16.1	29.5
MW-136	5/29/25	<0.002	**0.00801**	**0.113**	<0.002	<0.001	**0.00206**	<0.002	**0.00681**	<0.002	**0.00295**	<0.002	<0.002	<0.002	**0.00555**	<0.025	56.8	60
MW-136	11/4/25	<0.002	**0.00787**	**0.117**	<0.002	<0.001	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	<0.021	8.6	18.2

Table 7 - Detection Monitoring Summary - Appendix I Metals

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	TSS	Turbidity
	Units	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*NTU*
MCL/GWPS	--	0.006	0.01	2	0.004	0.005	0.1	~~0.007~~ 0.0021 [1]	1.3	0.015	0.1	0.05	0.1	0.002	~~0.049~~ 0.035[1]	2	--	--
GU-V-2	9/10/12	<0.0010	**0.0025**	**0.11**	<0.0020	<0.0010	<0.0040	<0.0040	<0.010	<0.0050	<0.010	<0.015	<0.003	<0.0002	**0.005**	**0.012**	**--**	-
GU-V-2	6/25/13	NT	NT	**0.32**	<0.0020	0.0011	0.022	**0.015**	**0.022**	<0.0050	**0.056**	<0.015	<0.003	NT	**0.059**	NT	**--**	113
GU-V-2	7/16/13	<0.0010	**0.0072**	**0.16**	<0.0020	<0.0010	**0.0056**	**0.013**	<0.010	<0.0050	**0.033**	<0.015	<0.003	<0.0002	**0.013**	**0.021**	**--**	-
GU-V-2	7/16/13	<0.0010	**0.0037**	**0.11**	<0.0020	<0.0010	<0.0040	**0.012**	<0.010	<0.0050	**0.028**	<0.015	<0.003	<0.0002	<0.0050	**0.014**	**--**	**filtered**
GU-V-2	8/28/13	<0.0010	**0.008**	**0.17**	<0.0020	<0.0010	<0.0040	**0.013**	<0.010	<0.0050	**0.034**	<0.015	<0.003	<0.0002	<0.0050	**0.01**	**--**	-
GU-V-2	8/28/13	<0.0010	**0.0084**	**0.19**	<0.0020	<0.0010	<0.0040	**0.014**	<0.010	<0.0050	**0.038**	<0.015	<0.003	<0.0002	<0.0050	**0.015**	**--**	**filtered**
GU-V-2	5/21/14	<0.0010	**0.019**	**0.29**	<0.0020	<0.0010	<0.0040	**0.011**	**0.085**	<0.0050	**0.037**	<0.015	<0.003	<0.0002	<0.0050	**0.026**	**--**	14
GU-V-2	10/7/14	<0.0010	**0.014**	**0.14**	<0.0020	<0.0010	<0.0040	**0.0077**	<0.010	<0.0050	**0.031**	<0.015	<0.003	<0.0002	<0.0050	<0.01	**--**	11.4
GU-V-2	5/12/15	<0.0010	**0.0057**	**0.11**	<0.0020	<0.0010	<0.0040	**0.0077**	<0.010	<0.0050	**0.025**	<0.015	<0.003	<0.002	<0.0050	<0.01	5.6	7.1
GU-V-2	10/13/15	<0.0010	**0.0022**	**0.091**	<0.0020	<0.0010	<0.0040	**0.0061**	<0.010	<0.0050	**0.027**	<0.015	<0.003	<0.002	<0.0050	<0.01	<4	4.9
GU-V-2	8/29/16	**0.0036**	**0.0038**	**0.085**	<0.0020	<0.0010	<0.0040	**0.0058**	<0.010	<0.0050	**0.022**	<0.015	<0.003	**0.0002**	<0.0050	<0.01	4.8	13.9
GU-V-2	11/9/16	<0.0010	**0.0025**	**0.077**	<0.0020	<0.0010	<0.0040	**0.006**	**0.022**	**0.0063**	**0.019**	<0.015	<0.003	**0.0002**	<0.0050	**0.01**	<4	17.9
GU-V-2	2/16/17	**0.0069**	**0.0028**	**0.074**	<0.0020	<0.0010	<0.0040	**0.007**	**0.012**	<0.01	**0.029**	<0.015	<0.003	**0.00031**	<0.0050	**0.012**	<4	--
GU-V-2	5/16/17	<0.0010	**0.012**	**0.063**	<0.0020	<0.0010	<0.0040	**0.012**	<0.010	<0.0050	**0.023**	<0.015	<0.003	<0.0002	<0.0050	**0.011**	4.8	6
GU-V-2	10/23/17	**0.0013**	**0.0026**	**0.07**	<0.0020	<0.0010	<0.0040	**0.006**	<0.010	<0.0050	**0.02**	<0.015	<0.003	<0.0002	<0.0050	<0.01	<4	4.2
GU-V-2	5/20/20	**0.0026**	**0.00693**	**0.0342**	<0.0020	<0.0010	<0.0020	<0.0020	**0.117**	<0.0020	**0.00359**	<0.0020	<0.0020	<0.0020	<0.0050	**0.0655**	14.5	12.1
GU-V-2	5/11/23	**0.00587**	<0.002	**0.0472**	<0.002	<0.001	<0.002	<0.002	**0.0905**	<0.002	**0.00536**	<0.002	<0.002	<0.002	<0.005	**0.103**	<4.0	NT
GU-VIII-1	5/29/25	<0.002	**0.00269**	**0.0536**	<0.002	<0.001	<0.002	**0.00606**	<0.005	<0.002	**0.0168**	<0.002	<0.002	<0.002	<0.005	<0.0250	2.7	1
GU-VIII-1	11/11/25	<0.002	**0.00398**	**0.0536**	<0.002	<0.001	<0.002	**0.00492**	<0.005	<0.002	**0.0168**	<0.002	<0.002	<0.002	<0.005	<0.0250	<4.0	7.3

Notes:

Metals parameters, as per IAC Chapter 113 Appendix I

MCL = U.S. EPA maximum contaminant level

GWPS = Iowa Statewide Groundwater Protection Standard for Contaminants in Groundwater (protected Groundwater Source)

NT = Not Tested

[1] = Revised standard, per IDNR 2018

[2] = Monitoring wells MW-115, MW-130, & MW-131 sealed August 2022

[3] = Monitoring well MW-11 was sealed August 2025

* = MW-2A pump pulled on 5/19/20 to release stuck check ball resulting in higher turbidity

Denotes reported concentration above MCL or GWPS

Table 8 - Detection Monitoring Summary - Appendix I VOCs

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Location	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Tricholoethane	1,1,2,2,-Tetrachloroethane	1,1,2,-Trichloroethane	1,1,-Dichloroethane	1,1,-Dichloroethene	1,2,3-Trichloropane	1,2-Dibromo-3-Chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dichlorobenzene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	70	200	0.3	5	140	7	0.0058	0.2	0.05	600	5	5	75	--	--	560
MW-2A	3/26/08	<5.7	<3.0	<2.2	<1.7	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<5.7
MW-2A	5/19/08	<5.7	<3.0	<2.2	<1.7	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-2A	6/26/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-2A	8/20/08	<5.7	<3.0	<2.2	<1.7	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-2A	9/29/08	<5.7	<3.0	<2.2	<1.2	<3.0	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.6
MW-2A	3/25/09	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-2A	9/29/09	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-2A	3/31/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-2A	9/22/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-2A	6/16/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-2A	9/27/11	<5.7	<3.0	<2.3	<1.3	<2.6	<4.9	<4.1	<9.2	<2.5	<3.4	<2.9	<1.5	<4.4	<9.8	<35	<3.1
MW-2A	3/29/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	11/10/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	5/19/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-2A	5/11/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	NT	NT	NT	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-2A[1]	5/11/23	NT	NT	NT	NT	NT	NT	<0.0058	<0.2	<0.05	NT	NT	NT	NT	NT	NT	NT
MW-11	3/26/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	5/19/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	6/26/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	8/20/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	9/29/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	3/25/09	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	10/1/09	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	3/31/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	9/22/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	6/16/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	9/27/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	9/25/12	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-11	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-11	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-11	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-11	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-11	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-11	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-11	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-11	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-11	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-11	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-11	5/19/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-11[3]	5/11/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-11R	11/3/25	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	3/26/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-110	5/19/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-110	6/26/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-110	8/20/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-110	9/29/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-110	3/25/09	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-110	10/1/09	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-110	3/31/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-110	9/22/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0

Table 8 - Detection Monitoring Summary - Appendix I VOCs
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	6300	0.32	5	90	80	80	10	700	5	100	2800	80	--	70	--	80
MW-2A	3/26/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-2A	5/19/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-2A	6/26/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-2A	8/20/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-2A	9/29/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-2A	3/25/09	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-2A	9/29/09	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-2A	3/31/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-2A	9/22/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-2A	6/16/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-2A	9/27/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<16	<4.3	<5.1	<2.6	<5.10	<2.8	<11	<2.7	<2.9	<3.1
MW-2A	3/29/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	9/25/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	3/26/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	11/20/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	5/21/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	5/11/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	10/13/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	11/10/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-2A	5/19/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-2A	5/11/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-2A[1]	5/11/23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MW-11	3/26/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	5/19/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	6/26/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	8/20/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	9/29/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	3/25/09	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	10/1/09	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	3/31/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	9/22/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	6/16/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	9/27/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	9/25/12	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-11	3/26/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	11/20/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	5/21/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	5/11/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	10/13/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	11/9/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-11	5/19/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-11[3]	5/11/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-11R	11/3/25	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-110	3/26/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-110	5/19/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-110	6/26/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-110	8/20/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-110	9/29/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-110	3/25/09	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-110	10/1/09	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-110	3/31/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-110	9/22/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0

Table 8 - Detection Monitoring Summary - Appendix I VOCs
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	Dibromoethane	Ethylbenzene	Iodomethane	Methlyene Chloride	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	trans-1,4-Dichloro-2-butene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride	Xylenes, Total
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	70	700	--	5	100	5	1000	100	--	1.8	5	2000	--	2	10000
MW-2A	3/26/08	<2.5	<6.0	<5.0	<4.1	<10	<1.4	<2.5	<4.5	<2.2	<8.5	<3.2	<7.5	<5.2	<2.0	<3.7
MW-2A	5/19/08	<2.5	<6.0	<5.0	<4.1	<10	<1.4	<2.5	<4.5	<2.2	<8.5	<3.2	<7.5	<5.2	<2.0	<3.7
MW-2A	6/26/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-2A	8/20/08	<2.5	<6.0	<5.0	<4.1	<10	<1.4	<2.5	<4.5	<2.2	<8.5	<3.2	<7.5	<5.2	<2.0	<3.7
MW-2A	9/29/08	<2.5	<6.0	<5.0	<4.1	<10	<1.4	<2.5	<4.5	<2.2	<8.5	<3.2	<7.5	<3.4	<2.0	<3.7
MW-2A	3/25/09	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-2A	9/29/09	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-2A	3/31/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-2A	9/22/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-2A	6/16/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-2A	9/27/11	<2.6	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-2A	3/29/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	11/10/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-2A	5/19/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-2A	5/11/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-2A[1]	5/11/23	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MW-11	3/26/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	5/19/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	6/26/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	8/20/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	9/29/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	3/25/09	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	10/1/09	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	3/31/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	9/22/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	6/16/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	9/27/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	9/25/12	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-11	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-11	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-11	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-11	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-11	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-11	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-11	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-11	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-11	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-11	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-11	5/19/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-11[3]	5/11/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-11R	11/3/25	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-110	3/26/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-110	5/19/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-110	6/26/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-110	8/20/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-110	9/29/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-110	3/25/09	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-110	10/1/09	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-110	3/31/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-110	9/22/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0

Table 8 - Detection Monitoring Summary - Appendix I VOCs
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Tricholoethane	1,1,2,2,-Tetrachloroethane	1,1,2,-Trichloroethane	1,1,-Dichloroethane	1,1,-Dichloroethene	1,2,3-Trichloropane	1,2-Dibromo-3-Chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dichlorobenzene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	70	200	0.3	5	140	7	0.0058	0.2	0.05	600	5	5	75	--	--	560
MW-110	6/16/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-110	9/27/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-110	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	5/19/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-110	5/11/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-115	3/26/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-115	5/19/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-115	6/26/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-115	8/20/2008	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-115	9/29/08	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-115	3/25/2009	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-115	9/30/2009	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-115	3/31/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-115	9/22/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-115	6/16/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-115	9/27/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-115	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115	6/2/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-115[2]	5/19/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-117	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-117	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-117	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-117	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-117	11/10/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-117	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-117	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-117	5/19/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-117	5/11/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-118	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-118	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-118	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-118	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-118	11/10/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-118	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-118	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-118	5/19/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-118	5/11/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-123	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0

Table 8 - Detection Monitoring Summary - Appendix I VOCs
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	6300	0.32	5	90	80	80	10	700	5	100	2800	80	--	70	--	80
MW-110	6/16/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-110	9/27/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-110	3/28/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	9/25/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	3/26/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	11/20/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	5/21/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	5/11/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	10/13/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	11/9/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-110	5/19/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-110	5/11/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-115	3/26/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-115	5/19/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-115	6/26/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-115	8/20/2008	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-115	9/29/08	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-115	3/25/2009	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-115	9/30/2009	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-115	3/31/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-115	9/22/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-115	6/16/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-115	9/27/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-115	3/28/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115	9/25/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115	3/26/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115	11/20/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115	5/21/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115	6/2/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115	10/13/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115	11/9/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-115[2]	5/19/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-117	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-117	5/11/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-117	10/13/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-117	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-117	11/10/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-117	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-117	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-117	5/19/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-117	5/11/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-118	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-118	5/11/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-118	10/13/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-118	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-118	11/10/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-118	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-118	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-118	5/19/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-118	5/11/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-123	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 8 - Detection Monitoring Summary - Appendix I VOCs
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	Dibromoethane	Ethylbenzene	Iodomethane	Methlyene Chloride	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	trans-1,4-Dichloro-2-butene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride	Xylenes, Total
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	70	700	--	5	100	5	1000	100	--	1.8	5	2000	--	2	10000
MW-110	6/16/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-110	9/27/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-110	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-110	5/19/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-110	5/11/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-115	3/26/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-115	5/19/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-115	6/26/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-115	8/20/2008	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-115	9/29/08	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-115	3/25/2009	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-115	9/30/2009	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-115	3/31/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-115	9/22/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-115	6/16/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-115	9/27/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-115	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115	6/2/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-115[2]	5/19/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-117	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-117	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-117	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-117	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-117	11/10/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-117	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-117	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-117	5/19/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-117	5/11/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-118	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-118	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-118	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-118	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-118	11/10/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-118	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-118	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-118	5/19/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-118	5/11/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-123	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0

Table 8 - Detection Monitoring Summary - Appendix I VOCs
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Tricholoethane	1,1,2,2,-Tetrachloroethane	1,1,2,-Trichloroethane	1,1,-Dichloroethane	1,1,-Dichloroethene	1,2,3-Trichloropane	1,2-Dibromo-3-Chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dichlorobenzene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	70	200	0.3	5	140	7	0.0058	0.2	0.05	600	5	5	75	--	--	560
MW-123	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-123	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-123	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-123	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-123	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-123	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-123	5/19/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-123	5/11/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-7A	9/29/2009	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-7A	3/31/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-7A	9/22/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-7A	6/16/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-7A	9/27/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-7A	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	11/10/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	5/19/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-7A	5/11/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-130	9/29/2009	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-130	3/31/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	**27**	<34	<3.0
MW-130	9/22/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-130	6/16/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-130	9/27/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-130	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130	6/2/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-130[2]	5/20/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131	9/29/2009	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-131	3/31/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-131	9/22/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-131	6/16/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-131	9/27/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-131	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131	6/2/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0

Table 8 - Detection Monitoring Summary - Appendix I VOCs
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	6300	0.32	5	90	80	80	10	700	5	100	2800	80	--	70	--	80
MW-123	5/11/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-123	10/13/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-123	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-123	11/9/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-123	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-123	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-123	5/19/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-123	5/11/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-7A	9/29/2009	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-7A	3/31/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-7A	9/22/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-7A	6/16/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-7A	9/27/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-7A	3/28/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	9/25/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	3/26/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	11/20/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	5/21/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	5/11/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	10/13/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	11/10/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7A	5/19/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-7A	5/11/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-130	9/29/2009	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-130	3/31/10	**65**	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-130	9/22/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-130	6/16/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-130	9/27/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-130	3/28/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130	9/25/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130	3/26/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130	11/20/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130	5/21/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130	6/2/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130	10/13/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130	11/9/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-130[2]	5/20/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-131	9/29/2009	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-131	3/31/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-131	9/22/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-131	6/16/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-131	9/27/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-131	3/28/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-131	9/25/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-131	3/26/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-131	11/20/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-131	5/21/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-131	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-131	6/2/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-131	10/13/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-131	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-131	11/9/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Table 8 - Detection Monitoring Summary - Appendix I VOCs
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	Dibromoethane	Ethylbenzene	Iodomethane	Methlyene Chloride	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	trans-1,4-Dichloro-2-butene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride	Xylenes, Total
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	70	700	--	5	100	5	1000	100	--	1.8	5	2000	--	2	10000
MW-123	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-123	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-123	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-123	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-123	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-123	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-123	5/19/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-123	5/11/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-7A	9/29/2009	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-7A	3/31/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-7A	9/22/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-7A	6/16/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-7A	9/27/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-7A	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	11/10/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-7A	5/19/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-7A	5/11/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-130	9/29/2009	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-130	3/31/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-130	9/22/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-130	6/16/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-130	9/27/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-130	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130	6/2/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-130[2]	5/20/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-131	9/29/2009	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-131	3/31/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-131	9/22/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-131	6/16/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-131	9/27/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-131	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-131	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-131	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-131	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-131	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-131	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-131	6/2/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-131	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-131	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-131	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0

Table 8 - Detection Monitoring Summary - Appendix I VOCs
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Tricholoethane	1,1,2,2,-Tetrachloroethane	1,1,2,-Trichloroethane	1,1,-Dichloroethane	1,1,-Dichloroethene	1,2,3-Trichloropane	1,2-Dibromo-3-Chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dichlorobenzene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	70	200	0.3	5	140	7	0.0058	0.2	0.05	600	5	5	75	--	--	560
MW-131	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-131[2]	5/20/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	9/29/2009	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-132	3/31/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-132	9/22/10	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-132	6/16/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-132	9/27/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-132	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	6/2/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	5/20/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-132	5/11/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-133	9/29/2009	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-133	9/22/2010	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-133	6/16/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-133	9/27/11	<5.7	<3.0	<2.2	<1.2	<2.5	<4.9	<4.1	<9.1	<2.4	<3.3	<2.8	<1.4	<4.3	<9.7	<34	<3.0
MW-133	3/29/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	10/14/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	5/20/20	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10	<5.0	<5.0
MW-133	5/11/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-134	6/21/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-134	10/3/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-134	4/25/24	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-134	10/24/24	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-134	5/29/25	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-134	11/4/25	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-135	6/21/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-135	10/3/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-135	4/25/24	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-135	10/24/24	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-135	5/29/25	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-135	11/4/25	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-136	6/21/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-136	10/3/23	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-136	4/25/24	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.01	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-136	10/24/24	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-136	5/29/25	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
MW-136	11/4/25	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0

Table 8 - Detection Monitoring Summary - Appendix I VOCs
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	6300	0.32	5	90	80	80	10	700	5	100	2800	80	--	70	--	80
MW-131	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-131	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-131[2]	5/20/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-132	9/29/2009	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-132	3/31/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-132	9/22/10	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-132	6/16/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	**5.2**	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-132	9/27/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	**5.2**	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-132	3/28/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	9/25/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	3/26/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	11/20/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	5/21/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	6/2/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	10/13/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	11/9/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-132	5/20/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-132	5/11/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-133	9/29/2009	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-133	9/22/2010	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-133	6/16/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	<4.2	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-133	9/27/11	<19	<70	<3.1	<3.2	<3.6	<3.8	<15	**5.2**	<5.0	<2.5	<5.9	<2.7	<10	<2.7	<2.9	<3.0
MW-133	3/29/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	9/25/12	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	3/26/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	11/20/13	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	5/21/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	10/7/14	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	5/11/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	10/14/15	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	5/24/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	11/9/16	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	5/15/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	10/23/17	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-133	5/20/20	<25	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-133	5/11/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-134	6/21/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-134	10/3/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	**1.08**	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-134	4/25/24	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-134	10/24/24	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-134	5/29/25	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-134	11/4/25	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-135	6/21/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-135	10/3/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-135	4/25/24	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-135	10/24/24	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-135	5/29/25	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-135	11/4/25	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-136	6/21/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-136	10/3/23	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-136	4/25/24	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-136	10/24/24	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-136	5/29/25	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
MW-136	11/4/25	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0

Table 8 - Detection Monitoring Summary - Appendix I VOCs
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	Dibromoethane	Ethylbenzene	Iodomethane	Methlyene Chloride	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	trans-1,4-Dichloro-2-butene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride	Xylenes, Total
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	70	700	--	5	100	5	1000	100	--	1.8	5	2000	--	2	10000
MW-131	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-131	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-131[2]	5/20/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-132	9/29/2009	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-132	3/31/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-132	9/22/10	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-132	6/16/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-132	9/27/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-132	3/28/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	6/2/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	10/13/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-132	5/20/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-132	5/11/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-133	9/29/2009	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-133	9/22/2010	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-133	6/16/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-133	9/27/11	<2.5	<6.0	<5.0	<4.1	<10	<1.2	<2.5	<4.5	<2.2	<5.0	<3.2	<7.5	<2.3	<2.0	<3.0
MW-133	3/29/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	9/25/12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	3/26/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	11/20/13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	5/21/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	10/7/14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	5/11/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	10/14/15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	5/24/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	11/9/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	5/15/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	10/23/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<2.0
MW-133	5/20/20	<1.0	<1.0	<10	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-133	5/11/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-134	6/21/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-134	10/3/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-134	4/25/24	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-134	10/24/24	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-134	5/29/25	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-134	11/4/25	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-135	6/21/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-135	10/3/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-135	4/25/24	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-135	10/24/24	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-135	5/29/25	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-135	11/4/25	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-136	6/21/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-136	10/3/23	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-136	4/25/24	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-136	10/24/24	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-136	5/29/25	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
MW-136	11/4/25	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5

Table 8 - Detection Monitoring Summary - Appendix I VOCs

Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Tricholoethane	1,1,2,2,-Tetrachloroethane	1,1,2,-Trichloroethane	1,1,-Dichloroethane	1,1,-Dichloroethene	1,2,3-Trichloropane	1,2-Dibromo-3-Chloropropane (DBCP)	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dichlorobenzene	2-Butanone	2-Hexanone	4-Methyl-2-pentanone
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	70	200	0.3	5	140	7	0.0058	0.2	0.05	600	5	5	75	--	--	560
GU-VIII-1	5/29/25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.005	<0.005	<0.005	<0.2	<0.1	<0.1	<0.2	<4.0	<1.0	<1.0
Trip Blank	5/29/25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.005	<0.005	<0.005	<0.2	<0.1	<0.1	<0.2	<4.0	<1.0	<1.0
GU-VIII-1	11/11/25	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0
Trip Blank	11/11/25	<1.0	<1.0	<0.3	<1.0	<1.0	<1.0	<0.0058	<0.2	<0.05	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0

Notes:

Volatile Organic Compound (VOC) Parameters, as listed in IAC Chapter 113, Appendix I

MCL = U.S. EPA maximum contaminant level

GWPS = Iowa Statewide Groundwater Protection Standard for Contaminants in Groundwater (protected Groundwater Source)

NT = Not Tested

[1] = Sample reanalyzed for 3 VOC parameters with corrected reporting limits; initial analysis completed with incorrect reporting limits due to laboratory error.

[2] = Monitoring wells MW-115, MW-130, & MW-131 sealed August 2022

[3] = Monitoring well MW-11 was sealed August 2025

Denotes reported concentration above MCL or GWPS

Bold = Detected above RL

Table 8 - Detection Monitoring Summary - Appendix I VOCs

Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	6300	0.32	5	90	80	80	10	700	5	100	2800	80	--	70	--	80
GU-VIII-1	5/29/25	**3.4**	<0.5	<0.04	<0.2	<0.1	<1.0	<0.5	<0.5	<0.2	<0.1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1
Trip Blank	5/29/25	**28.3**	<0.5	<0.04	<0.2	<0.1	<1.0	<0.5	<0.5	<0.2	<0.1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1
GU-VIII-1	11/11/25	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0
Trip Blank	11/11/25	<25.0	<0.32	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<2.5	<1.0	<1.25	<1.0	<1.0	<1.0

Notes:

Volatile Organic Compound (VOC) Parameters, as listed in IAC Chapter 113, Appendix I

MCL = U.S. EPA maximum contaminant level

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NT = Not Tested

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[3] = Monitoring well MW-11 was sealed August 2025

Denotes reported concentration above MCL or GWPS

Bold = Detected above RL

Table 8 - Detection Monitoring Summary - Appendix I VOCs

Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Location	Sample Date	Dibromoethane	Ethylbenzene	Iodomethane	Methlyene Chloride	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	trans-1,4-Dichloro-2-butene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride	Xylenes, Total
	Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MCL/GWPS	--	70	700	--	5	100	5	1000	100	--	1.8	5	2000	--	2	10000
GU-VIII-1	5/29/25	<0.2	<0.1	<0.5	<1.0	<0.5	<1.0	<2.0	<2.0	<2.0	<2.0	<0.04	<0.1	<0.5	<0.05	<0.26
Trip Blank	5/29/25	<0.2	<0.1	<0.5	<1.0	<0.5	<1.0	<2.0	<2.0	<2.0	<2.0	<0.04	<0.1	<0.5	<0.05	<0.26
GU-VIII-1	11/11/25	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5
Trip Blank	11/11/25	<1.0	<1.0	<10.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<5.0	<1.0	<1.5

Notes:

Volatile Organic Compound (VOC) Parameters, as listed in IAC Chapter 113, Appendix I

MCL = U.S. EPA maximum contaminant level

GWPS = Iowa Statewide Groundwater Protection Standard for Contaminants in Groundwater (protected Groundwater Source)

NT = Not Tested

[1] = Sample reanalyzed for 3 VOC parameters with corrected reporting limits; initial analysis completed with incorrect reporting limits due to laboratory error.

[2] = Monitoring wells MW-115, MW-130, & MW-131 sealed August 2022

[3] = Monitoring well MW-11 was sealed August 2025

Denotes reported concentration above MCL or GWPS

Bold = Detected above RL

Table 9
Groundwater Underdrain VOC Detection Summary
Central Disposal Landfill - Lake Mills, Iowa
Permit No. 95-SDP-01-72

Volatile Organic Compound (µg/L)	Groundwater Performance Standard	North Leachate Pond VOC range*	GU-V-2																	GU-VIII-1	Trip Blank	GU-VIII-1	Trip Blank
			08/01/12	*09/25/12*	*06/25/13*	*07/16/13*	*08/28/13*	*05/21/14*	*10/07/14*	*05/11/15*	*10/13/15*	*08/29/16*	*11/10/16*	*05/16/17*	*10/23/17*	*07/31/18*	*11/27/18*	*05/20/20*	*05/11/23*	*05/29/25*	*05/29/25*	*11/11/25*	*05/29/25*
Acetone	6,300	410 - 1,400	Dry; NS	--	30.0	19.0	--	--	--	--	--	--	--	--	--	NS	NS	--	--	3.4	28.3	--	--
Benzene	5	--	Dry; NS	--	21.0	20.0	61.0	16.0	3.7	--	--	--	--	--	--	NS	NS	--	--	--	--	--	--
Carbon Disulfide	700	--	Dry; NS	--	--	10.0	--	--	--	--	--	--	--	--	--	NS	NS	--	--	--	--	--	--
Chloroethane	2,800	--	Dry; NS	--	2.5	2.1	3.7	4.6	1.1	--	--	--	--	--	--	NS	NS	--	--	--	--	--	--
cis-1,2-Dichloroethene	70	--	Dry; NS		--	--	1.4	--	--	--	--	--	--	--	--	NS	NS	--	--	--	--	--	--
1,4-dichlorobenzene	75	--	Dry; NS	--	--	--	--	-	-	--	--	--	--	--	--	NS	NS	--	--	--	--	--	--
Ethylbenzene	700	--	Dry; NS	--	5.2	5.7	12.0	--	--	--	--	--	--	--	--	NS	NS	--	--	--	--	--	--
Methyl Ethyl Ketone	4,000	320 - 2,200	Dry; NS	--	--	--	--	--	--	--	--	--	--	--	--	NS	NS	--	--	--	--	--	--
Methyl Isobutyl Ketone	--	--	Dry; NS	--	12.0	12.0	--	--	--	--	--	--	--	--	--	NS	NS	--	--	--	--	--	--
Toluene	1,000	--	Dry; NS	--	5.5	9.2	1.6	--	--	--	--	--	--	--	--	NS	NS	--	--	--	--	--	--
Vinyl Chloride	2	--	Dry; NS	--	--	--	--	1.3	2.0	--	--	--	--	--	--	NS	NS	--	--	--	--	--	--
Xylenes	10,000	13 - 76	Dry; NS	--	--	2.0	--	--	--	--	--	--	--	--	--	NS	NS	--	--	--	--	--	--

Notes:

* - Four events completed in 2013

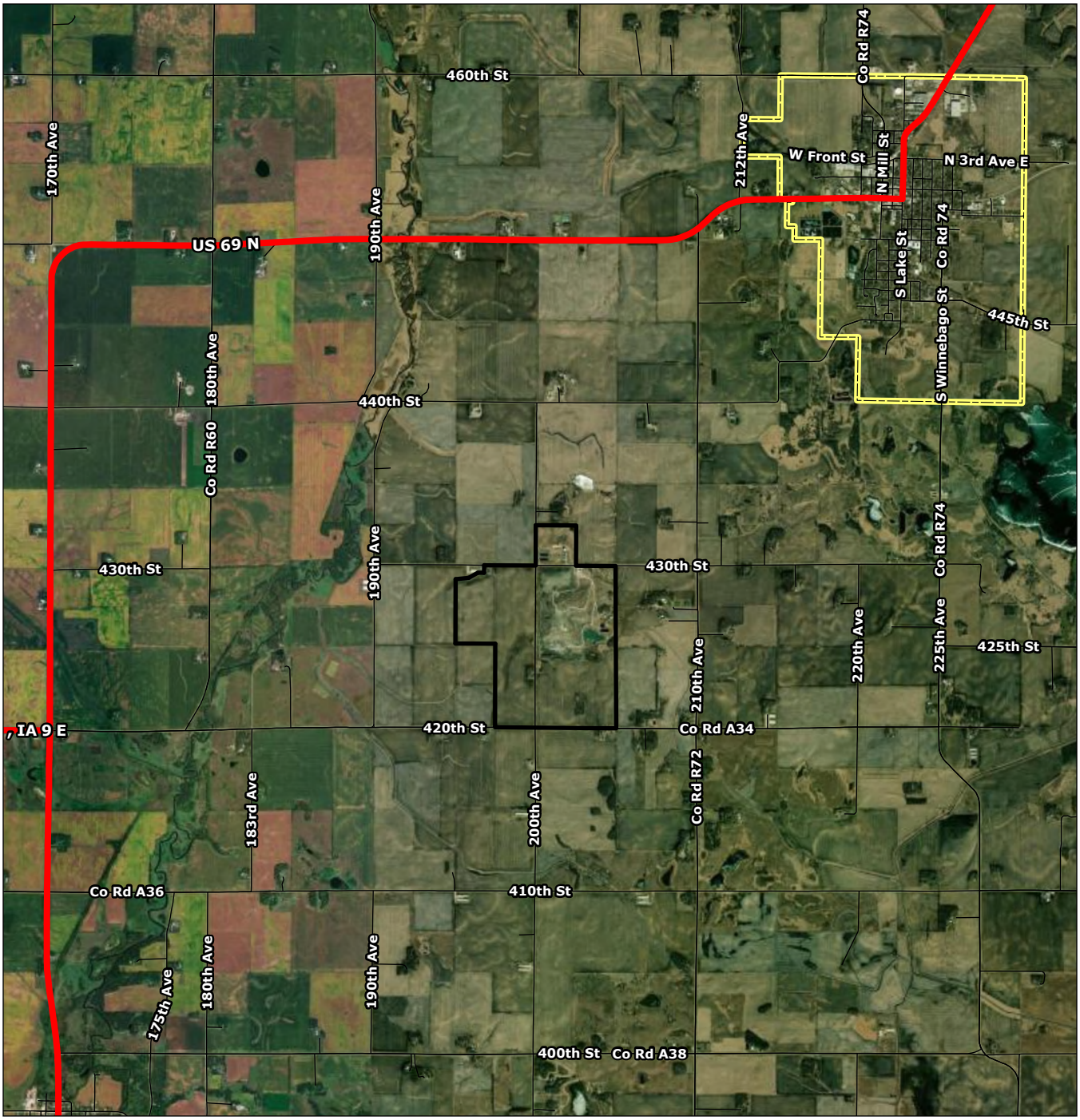
Underline = unconfirmed result

-- = Not Detected; VOC was not detected at concentrations above its reporting limit

NS= No Sample; No sample collected

VOC detected at concentrations above Groundwater Performance Standard

Figures



Minnesota	Freeborn County
Iowa	
Winnebago County	Worth County
Hancock County	

Legend

- City of Lake Mills
- Landfill Property Boundary
- State Highway
- Local Road

0 2,500 5,000 Feet

(At original document size of 8.5x11)
1:60,000

N

Stantec

Project Location
T99N, R23W, S21
Lake Mills, Winnebago Co., IA

Prepared by BS on 2026-01-20

Client/Project
Central Disposal Systems, Inc.
2025 Annual Report

227708670

Figure No.
1

Title
Site Location Map

Notes
1. Coordinate System: NAD 1983 UTM Zone 15N
2. Data Sources: ESRI
3. Background: ESRI Aerial Imagery

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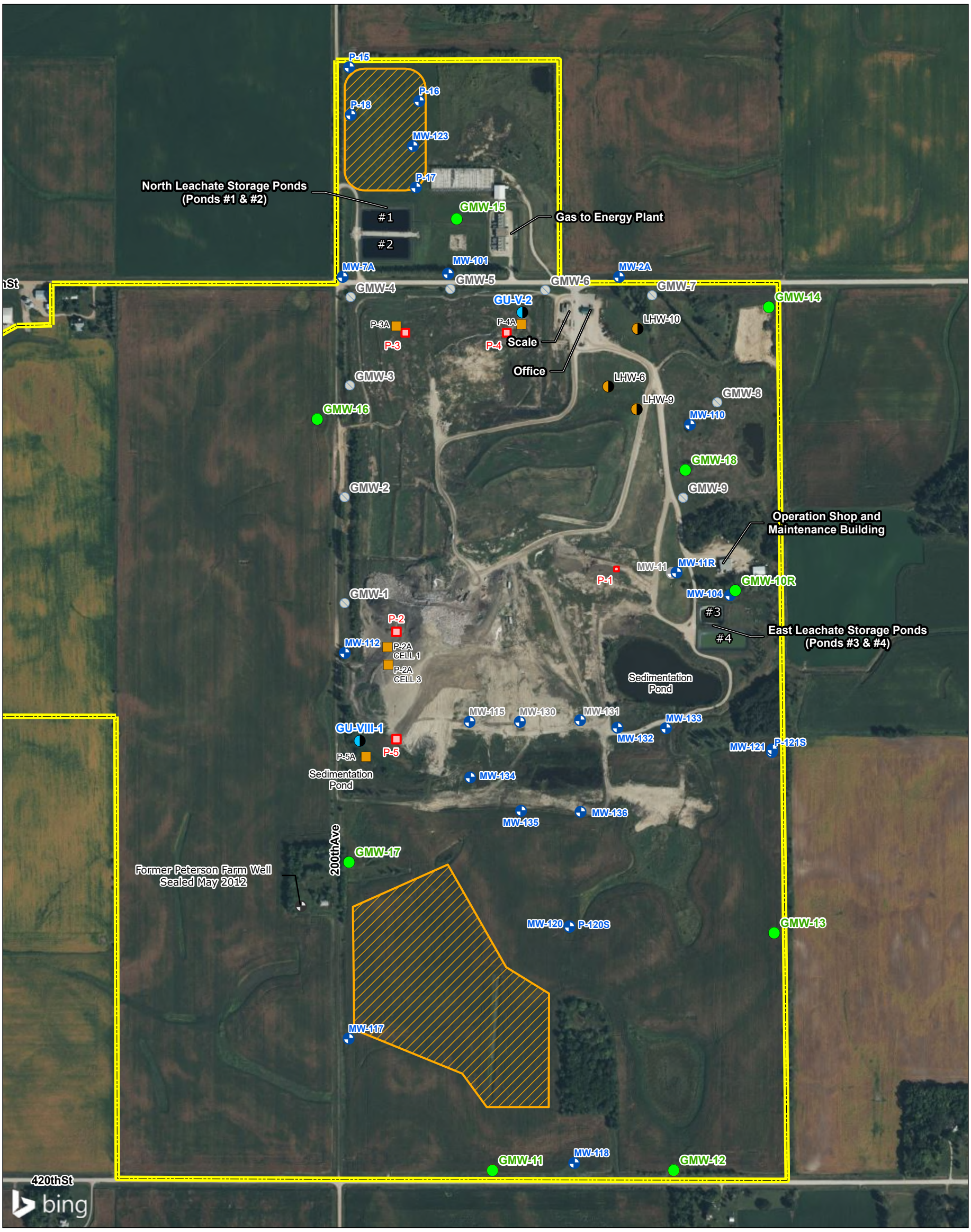

Faribault County | Freeborn County

Minnesota

Iowa

Winnebago County | Worth County

Hancock County | Cerro Gordo County

Notes

1. Coordinate System: NAD 1983 StatePlane Iowa North FIPS 1401 Feet
2. Data Sources: Bing Maps
3. Background: Bing Aerial Imagery

Legend

- Property Line
- Monitoring Well
- Sealed Monitoring Well
- Sealed Private Well
- Leachate Head Well
- Alternate Leachate Head Level Monitoring Location
- Sealed Gas Monitoring Probe
- Groundwater Underdrain
- Subsurface Gas Monitoring Probe
- Leachate Sump
- Former Spray Irrigation Site (Permit Terminated 2017)

0 300 600 Feet

(At original document size of 11x17)
1:7,200

N

Stantec

Project Location
T99N, R23W, S21
Lake Mills, Winnebago Co., IA

Prepared by BS on 2026-01-21

Client/Project
227708670
Central Disposal Systems, Inc.
2025 Annual Report

Figure No.
2

Title
Landfill Monitoring Network

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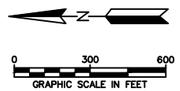


LEGEND

- FENCE LINE
- APPROXIMATE PROPERTY LINE
- ROAD
- SECONDARY ROAD
- BUILDING
- CULVERT
- EXISTING CONTOUR
- MW-104 GROUNDWATER MONITORING WELL
- MW-115 SEALED GROUNDWATER MONITORING WELL
- GMW-8 GAS MONITORING WELL
- LHW-9 LEACHATE HEAD WELL
- GU-V-2 GROUNDWATER UNDERDRAIN
- PHASE/CELL BOUNDARY

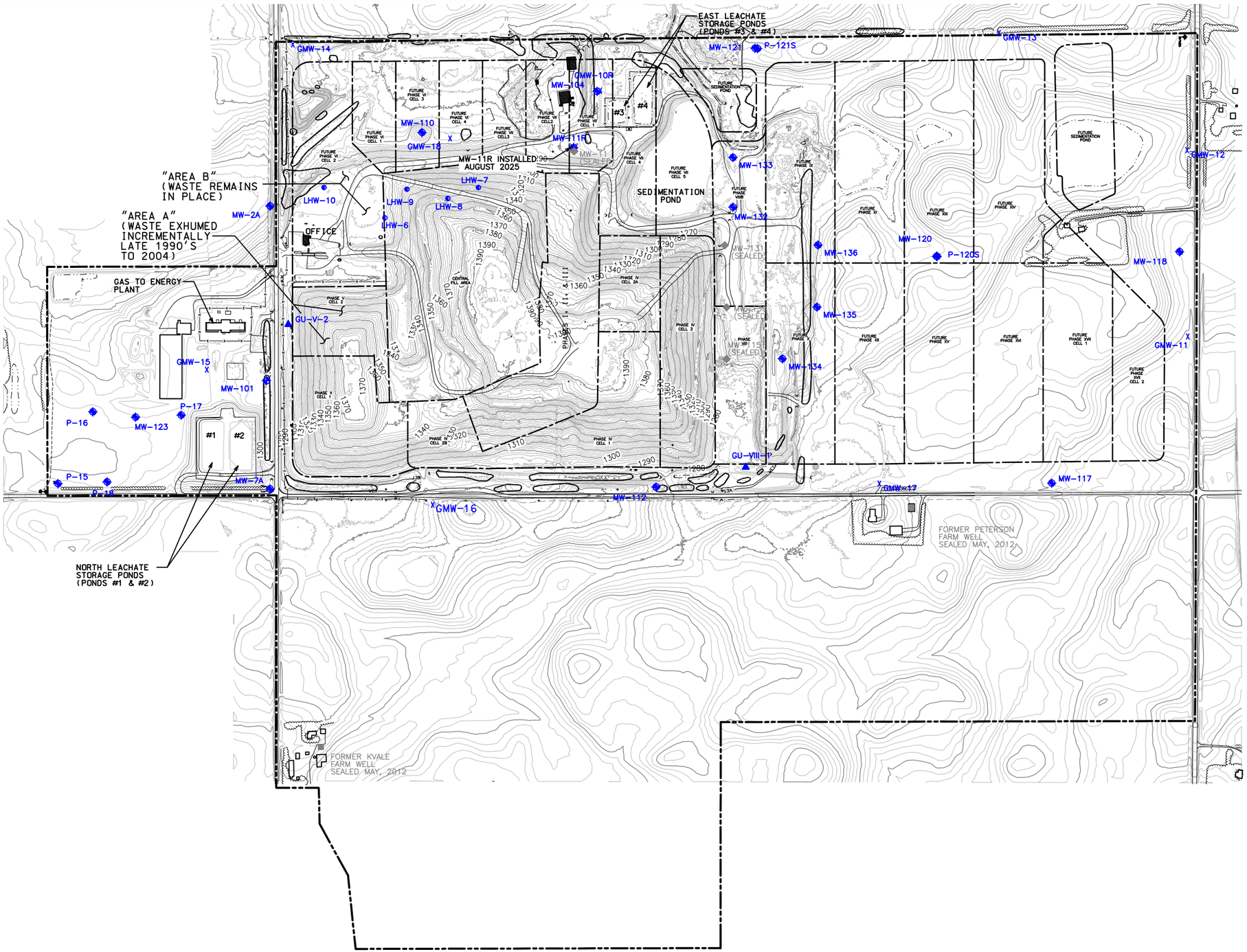
NOTES:

TOPOGRAPHY AND PLANIMETRIC FEATURES FOR A PORTION OF NORTH 40 ACRES, A PORTION OF SOUTH 160 ACRES, AND WEST PROPERTY BASED ON AERIAL PHOTO BY AEROMETRIC, INC. APRIL, 2014.

TOPOGRAPHY AND PLANIMETRIC FEATURES FOR NORTH 160 ACRES BASED ON AERIAL PHOTO BY WILLIAMS AERIAL & MAPPING, INC. APRIL 11, 2015. MOST RECENTLY UPDATED MARCH 12TH, 2025.

ALL ON-SITE FACILITY AND MONITORING POINT ELEVATIONS ARE 0.92' LOWER THAN USGS BENCHMARKS.

PROPERTY LINE INFORMATION OBTAINED FROM CDS, INC.



REV	REVISION DESCRIPTION	DWN	APP	REV DATE

SEAL

PRIME CONSULTANT

Stantec

PROJECT TITLE
2025 ANNUAL REPORT

CENTRAL DISPOSAL LANDFILL
CENTRAL DISPOSAL SYSTEMS

WINNEBAGO COUNTY, IOWA

SHEET TITLE
EXISTING CONDITIONS AND MONITORING LOCATIONS

DWN BY	CHK'D	APP'D	DWG DATE
JJT	CDK	CJA	JAN. 2026

SCALE AS SHOWN

PROJECT NO.	SHEET NO.	REV NO.
227708670	FIGURE 3	0

I:\227708670\drawings\drafting\cad\cdr\2025\Figure 1_Proposed Monitoring Network 2025.dwg

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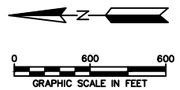

LEGEND

- FENCE LINE
- APPROXIMATE PROPERTY LINE
- ROAD
- SECONDARY ROAD
- BUILDING
- CULVERT
- EXISTING CONTOUR
- MW-104 GROUNDWATER MONITORING WELL
- MW-115 SEALED GROUNDWATER MONITORING WELL
- X GMW-8 GAS MONITORING WELL
- LHW-9 LEACHATE HEAD WELL
- GU-V-2 GROUNDWATER UNDERDRAIN
- PHASE/CELL BOUNDARY
- GROUNDWATER CONTOUR
- INFERRED GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTES:

TOPOGRAPHY AND PLANIMETRIC FEATURES FOR A PORTION OF NORTH 40 ACRES, A PORTION OF SOUTH 160 ACRES, AND WEST PROPERTY BASED ON AERIAL PHOTO BY AEROMETRIC, INC. APRIL, 2014.

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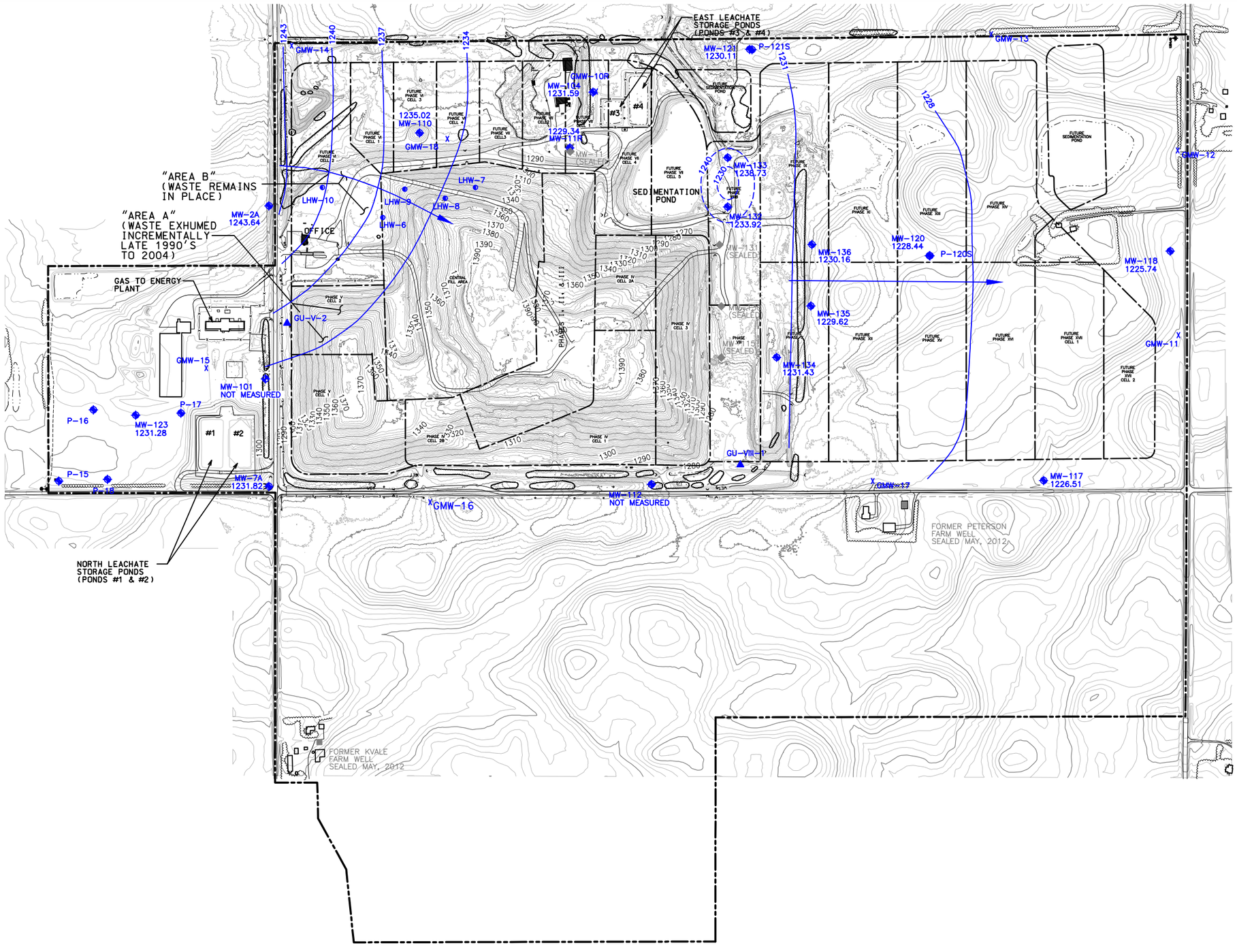

REV	REVISION DESCRIPTION	DWN	APP	REV DATE

SEAL

PRIME CONSULTANT

Stantec

PROJECT TITLE
2025 ANNUAL REPORT

CENTRAL DISPOSAL LANDFILL
CENTRAL DISPOSAL SYSTEMS

WINNEBAGO COUNTY, IOWA

SHEET TITLE
GROUNDWATER CONTOURS
NOVEMBER 3 & 4, 2025

DWN BY	CHK'D	APP'D	DWG DATE	SCALE
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PROJECT NO.	SHEET NO.	REV NO.
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Appendix A Leachate Control System Performance (LCSPE) Report

Stantec

2025 LEACHATE CONTROL SYSTEM PERFORMANCE EVALUATION ANNUAL REPORT

Permit #95-SDP-1-71P

January 30, 2026

Prepared for:
Central Disposal Systems, Inc.
21265-430th Street
Lake Mills, Iowa 50450

Prepared by:
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Plymouth, MN 55447

Project Number:
227708670

2025 Leachate Control System Performance Evaluation Annual Report
Signature Page
January 2025

I hereby certify that this report was prepared by me or under my direct supervision, and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Megan Ambuehl

Megan Ambuehl, P.E.
State Registration No. 22598
License Renewal Date: 12/31/2026

01-30-2026
Date

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APPENDIX

A Leachate Analytical Laboratory Reports

1 System Overview

1.1 Introduction

This Leachate Control System Performance Evaluation Annual Report for the Year 2025 for the Central Disposal Systems, Inc. (CDS) Landfill was prepared by Stantec Consulting Services, Inc. (Stantec) to document the activities related to the effectiveness of the Leachate Control System (LCS), in fulfillment of the Permit No. 95-SDP-1-72 (most recently issued on October 18, 2022 and revised October 17, 2025) Special Provision #2b, and Iowa Department of Natural Resources (IDNR) Code 113.7(5)b.(14)).

1.2 System Overview

The permitted Leachate Control System (LCS) at the landfill consists of these basic components:

- leachate collection in the landfill
- storage and pretreatment pond system
- leachate recirculation system in the lined area of Phase V (not used 2025)

The site formerly operated spray irrigation sites as well for leachate management; however, the spray irrigation site permit was terminated in 2017.

Leachate collected from the spoke system in the Central Fill Area, and from precipitation which infiltrates within the lined landfill footprint, is collected in the continuous, leachate drainage layer overlying the composite-lined cells. Perforated, high-density polyethylene (HDPE) piping intercepts the leachate flow in the drainage layer and conveys the leachate to five sumps (Phase I, Phase IV, and Phase V, Cell 1, and Phase V, Cell 2, and Phase VIII) designated as P-1, P-2, P-3, P-4, and P-5, respectively. Note that the operation of the P-5 sump was new in 2023, following completion of construction of Phase VIII. Pumps located in the sumps have the capacity to pump leachate at a minimum rate of 25 gallons per minute, and transducers are set to maintain less than 12 inches of leachate head on the liner. The leachate is pumped via HDPE sideslope riser pipes and a forcemain to one of two sets of storage ponds.

Both sets of ponds (north leachate ponds, and east leachate ponds) are designed to be operated in series, in parallel, or independent of each other. The ponds have been numbered 1 through 4, working north to south, as a means of clarity when sampling and reporting. The east set of ponds (#3 and #4) currently receive leachate from Phase I (P-1 sump). The leachate pond system in the north 40-acre parcel (#1 and #2) accepts leachate from Phases IV, V, and VIII (P-2, P-3, P-4, and P-5 sumps).

In 2013, the southern leachate pond of the east pond set (#4) was expanded to the east resulting in a volume capacity increase of 1.2 million gallons to total operating storage capacity of 1.8 million gallons. Construction of the leachate pond expansion was performed in October and November 2013 and a construction documentation report dated December 2013, and entitled “Construction Observation Report, 2013 Southeast Leachate Pond Expansion” by Barker Lemar, was submitted to the IDNR and subsequently approved via permit amendment.

Leachate from the ponds is pumped into trucks and hauled to wastewater treatment plants in accordance with the requirement of each treatment facility. In 2025, leachate was hauled to the Albert Lea, MN and Mason City, IA treatment facilities.

No leachate was recirculated or applied at the working face in 2025.

1.3 Changes to the Leachate System in 2025

Improvements to the leachate collection system were implemented in 2024 and into 2025. The improvements included a forcemain addition to redirect leachate from the east ponds to the northern ponds, providing more flexibility for site operations. Upgrades to the loadout of the north ponds were also completed. Documentation of these activities will be provided to IDNR once they are available.

Up to date record information for in-place infrastructure was not available at the time of 2025 annual reporting, thus the typical detailed system figure is not included herein. There are no planned improvements to the leachate system in 2026. Primary infrastructure and monitoring locations are provided on the attached **Figure 1.**

2 Maintenance of System

2.1 Leachate Line Cleaning

Leachate collection system cleaning was performed on July 30th, and July 31st, 2024, by Superior Jetting of Zimmerman, MN. Leachate line cleaning is required to be completed every three years; CDS plans to have the leachate lines cleaned within the required 3-year timeframe from the prior cleaning event (next cleaning presumably in 2027).

2.2 Miscellaneous Maintenance Activities 2025

Routine maintenance activities related to the leachate collection system and head monitoring system were performed at the landfill in 2025. Maintenance activities are listed below. Additional details regarding maintenance activities related to sump liquid level readings are discussed in **Section 3.1.2**:

January	○ P1 & P2 were periodically inoperable and maintenance was performed.
March	○ P2 connection maintenance.
April	○ P2 forcemain maintenance.
May	○ P1 received a new pump.
June	○ P2 forcemain maintenance.

The leachate seepages and/or spills observed within the landfill footprint in 2025, as documented by CDS, are provided below:

Date	Location	Description
3/24/2025	Southwest side of landfill between P2 and P5	A cracked 2” HDPE pipe leaked leachate. The stormwater ditches were dammed to prevent migration of the leachate. The pipe was crimped until repairs were completed on 3/25/2025. Impacted soil was removed from the area and placed within the active area for disposal.
4/8/2025	Southwest corner of Phase IV	Staff discovered leachate flowing from a previously undocumented 2” pipe. Landfill staff dammed a low-lying area where leachate collected. The pipe was subsequently repaired and impacted soils removed to the active area of the landfill.

Date	Location	Description
5/23/2025	West of P1	A small cracked 2” above ground pipe was discovered leaking, the leak was discovered before leachate flowed off of the lined limits of the landfill. The cracked pipe was repaired.
6/13/2025	North side of landfill	A small seep developed during grading activities associated with the final cover installation, the area was over excavated and the seep stopped. Leachate did not leave the lined limits of the landfill
6/17/2025	West slope of landfill	A small seep developed during grading activities associated with the final cover installation, the area was over excavated and the seep stopped. Leachate did not leave the lined limits of the landfill
6/20/2025	South Slope of Phase 8	Four seeps were discovered on the south slope of Phase 8. The areas were over excavated, to allow area to drain. The excavation was backfilled with soil. No leachate left the lined limits of the landfill.
6/27/2025	West slope of landfill	Seep identified in area where cover was being stripped as part of final cover construction. Area was covered and a berm was constructed to ensure leachate did not leave lined limits of landfill.
7/11/2025	Near active area down road	Seep area had soil added and was compacted. No leachate left lined limits of landfill
7/18/2025	Near Active Area	Seep was over excavated to trash and allowed to drain into waste mass then covered. No leachate left lined limits of landfill
7/18/2025	Southwest side of landfill	Seep caused by rainfall not infiltrating due to poor cover. Area was over excavated to allow liquid to drain into waste mass and covered.
7/18/2025	South facing slop of Phase 8	Seep caused by rainfall not infiltrating due to poor cover. Area was over excavated to allow liquid to drain into waste mass and covered.

Date	Location	Description
7/22/2025	East Side of landfill	Standpipe overfilled and leachate flowed into perimeter ditch. Ditch outlet dammed to prevent leachate from enter stormwater system. Liquid was removed and impacted soil was over excavated.
8/1/2025	North side of landfill	Seep developed as soil was stripped as part of the final cover construction project. Cause of seep was 4 feet of clay that prevented downward flow of leachate into waste mass. Area was over excavated to allow drainage and recovered. Impacted soil outside the limits of waste was excavated and placed in the active area.
8/11/2025	Southeast corner of landfill near active fill area	Leachate was observed running down diversion berms located in areas of intermediate cover. Stormwater culverts were dammed to prevent leachate from flowing further down stormwater ditches. Liquid removed and impacted soil disposed of in active area.
9/19/2025	Upslope of P2 on west side of landfill	While investigating a wet area, the contractor constructing the final cover damaged an undocumented forcemain. The force main was pinched off to stop the flow of leachate. The contractor immediately dammed up the nearest culvert in the stormwater ditch. Leachate was pumped to a tanker and transferred to the onsite leachate storage ponds. Impacted soils were stripped from areas where leachate contacted soil off of the liner. Excavated soils were placed in the active area of the landfill.
10/13/2025	P2	Work was being done on the P2 side slope riser by an external contractor. The contractor failed to power on the riser pump after work was completed, the sideslope riser overfilled with liquids from the gas dual extraction system. Leachate flowed south from the P2 vault. Immediately when the release was identified berms were constructed along the stormwater channels to prevent leachate from flowing to the main stormwater pond. Liquid was removed and impacted soils were excavated and placed in the active area of the landfill.

3 Leachate Control System Performance Evaluation

3.1 Leachate Head Elevation Monitoring

3.1.1 OLD LEACHATE HEAD WELLS

A network of leachate head wells has historically been monitored for leachate elevations in the Central Fill Area and the old waste areas. Leachate head wells have been abandoned over time as filling progresses in these areas. It is noted that the abbreviations for leachate head wells have included both “LHW” and “LW” (i.e. LHW-9 is the same as LW-9). “LHW” is the preferred and most used abbreviation. Leachate head wells LHW-6, LHW-9, and LHW-10 were measured once in 2025 by Alliance Analytical Services (Alliance), formerly Interpoll Laboratories. Leachate head well LHW-9 monitors the Central Fill Area, and LHW-6 and LHW-10 monitor leachate head in Old Waste Area “B”. Upon review of record information, a monitoring location previously recorded as LHW-11 is actually a secondary leachate head level monitoring point for cell Phase VIII. LHW-11 has now been denoted as P-5A as reflected in **Figure 1** and is discussed in **Section 3.1.2** below**.** The locations of LHW-6, LHW-9, and LHW-10 are also shown in **Figure 1**.

The leachate elevation data for LHW-6, LHW-9, and LHW-10 as recorded as depth to water below the top of well casing, are summarized in **Table 1** and shown graphically in **Figure 2**. Note that LHW-10 was buried by site operations and no data was recorded for a number of years. Site landscaping/maintenance work in the area recovered the LHW location and monitoring resumed in 2018, as reflected on **Table 1** and **Figure 2**.

The historical measurements from LHW-9 included an anomalous spike in elevation beginning in June 1999. An explanation for this elevation spike was included in the 2016 report. Corrected leachate head measurements using the top-of-casing elevation of 1328.28 are provided on **Table 1** and **Figure 2**.

3.1.1.1 Old Leachate Head Well Viability

The viability of the old leachate head wells has been questioned for some time as it is believed that they are not representative of true leachate head owing to factors such as their physical condition (all were installed in 1993) and infiltration of surface drainage along the well casings. As reported in the 2016 annual report, in 2016, CDS took several measures to address the leachate head well viability, including excavating soils and backfilling with bentonite around the LHW-9 casing and purging both LHW-9 and LHW-6. However, the recorded data since then continues to raise questions of the reliability of the data. The wells were installed in 1993 and over time have deteriorated, become obstructed at shallower depths, and do not provide viable or useful data regarding leachate head. Measurements appear to have stabilized over the last few years; however, measured depth to water represents elevated measurements because of obstruction and surface water infiltrations and is not indicative of actual leachate head.

3.1.2 HEAD ON LINER

In accordance with Subrule 113.7(5) b (3) of the IAC, leachate head on the liner is monitored by a pressure transducer-controlled pump system in the sumps, with an LCD readout that is monitored in accordance with the site permit requirements. To allow for the proper operation of the pump, the allowable depth of leachate is the depth of the sump plus 1 foot. The depths of the sumps and corresponding maximum head levels are as follows:

	Sump Depth (inches)	**Maximum Allowable Sump Leachate Level (inches)**
Phase I Sump (P1)	24	36
Phase IV Sump (P2)	48	60
Phase V, Cell 1 Sump (P3)	48	60
Phase V, Cell 2, Sump (P4)	72	84
Phase VIII Sump (P5)	72	84

Leachate head levels at the sump locations were collected monthly in accordance with the site permit. MSW Landfill Criteria Technical Manual (EPA 530-R- 093-017) specifically acknowledges that the 12-inches (30-cm) head allowance is a design standard and may be exceeded for relatively short periods of time during the active life of a landfill. P1 exceeded 12-inches of head on liner (exceedance level is 36.1 inches) in January, May, September, and October 2025 . P2 exceeded 12-inches of head on liner (exceedance level is 60 inches) in January, June, September, October and November in 2025. Recorded data at P3, P4, and P5 indicate values lower than the level of exceedance and confirm that measurements were compliant for all months in 2025. The recorded leachate head levels at the compliance points are included in **Table 2**, along with brief comments regarding maintenance activities (also noted in **Section 2.2**).

In addition to the primary leachate sumps, there are alternate leachate head monitoring points located in Phase IV, Cells 1 and 3 and Phase V, Cells 1 and 2. Measurements from these alternate head level monitoring points are not available for 2025 primarily due to staff turnover (data was either not recorded or collected data cannot be found). CDS will communicate with staff in 2026 to ensure a complete data record is kept.

As noted previously in Section 3.1.1, review of record information for Phase VIII indicated that the previously noted monitoring location LHW-11 was incorrectly discussed in the old leachate head well section during prior reporting and is actually an alternate leachate head monitoring point for Phase VIII. This correction has been addressed, and this monitoring location is now denoted as P-5A. Alternate leachate head monitoring points, as well as the sumps, are indicated on **Figure 1**. P-5A was monitored in

December of 2025 by Alliance Analytical Services (Alliance), formerly Interpoll Laboratories. Based on record information, the P-5A alternate head monitoring point is constructed along the drainage sand on a 4H:1V sideslope and head on liner was calculated based on this sideslope profile. The measurement taken from P-5A indicated a head level of 51-inches which exceeds the 12-inch head threshold. Based on data collected from the primary compliance point (P5), which indicate compliant head levels, it appears as though P-5A may be indicative of intermittent leachate percolation through the collection system.

Based on the data collected at the primary compliance points, when the leachate management system is consistently operating and maintained, leachate head level requirements are sustained at the site. Operational and equipment challenges in 2025 led to short-term exceedances as described above.

3.2 Leachate Removal

From January 1, 2025, to December 31, 2025, the following estimated volumes of leachate were removed from the landfill:

Location	Sump Designation	Volume (gallons)
Phases I-III	P-1	2,982,960
Phase IV	P-2	2,674,620
Phase V, Cell 1	P-3	622,080
Phase V, Cell 2	P-4	1,348,200
Phase VIII	P-5	1,746,900
	Total	9,374,760

The following table illustrates the leachate generation rates for 2025 in comparison to leachate generation from the previous 3 years:

Year	2025	2024	2023	2022	2021
Leachate Generation (gal)	9,374,760*	13,055,892*	6,105,397	10,216,636	6,003,562

*includes Phase VIII (P-5)

Note that CDS constructed a new cell in 2023 (Phase VIII) with the pumping system coming online in late 2023 and installed a dual extraction gas system at the site in 2022. Operation of the system increased the leachate production at the site compared to prior years, as shown in the above table. Leachate

generation is variable and may fluctuate based on annual weather conditions year over year and as a result of continued site improvements and construction events.

In 2025, 9,005,085 gallons of leachate were hauled to the Albert Lea, MN POTW and 881,113 gallons of leachate were hauled to the Mason City, IA POTW. In total, 9,886,198 gallons of leachate were hauled to POTWs.

Leachate generation information is also provided on attached **Table 3.**

3.3 Leachate Storage and Treatment Ponds

The east leachate ponds (#3 and #4) were each initially sized to provide 600,000 gallons of leachate storage above a 3-foot minimum operating depth and below a 14-foot operating depth. An additional 2-feet of freeboard is provided for a total pond depth of 16 feet. The southeastern pond in this set of ponds (#4) was expanded in 2013 to provide an operating storage capacity of 1.8 million gallons.

The north leachate storage ponds (#1 and #2) are each sized to provide 1,356,000 gallons of leachate storage above a 3-foot minimum operating depth and below a 10-foot maximum operating depth. An additional 2 feet was provided as freeboard for a total pond depth of 12 feet. However, the 2-foot freeboard is not intended for operational capacity, therefore, the maximum operating depth will not exceed 10 feet. The north leachate ponds have been used for the storage of the leachate from Phases IV and V since July 2006; Phase VIII was connected to the system in 2023.

As discussed in **Section 1.3**, CDS is currently in process of installing infrastructure to be able to pump all leachate generated onsite to the north ponds, to provide flexibility in site operations. The north leachate ponds remained in good working order throughout the year. The east leachate ponds continue to be utilized and were also in good working order in 2025.

3.4 Spray Irrigation Areas (Permit Terminated in 2017)

CDS elected to discontinue land application of leachate in 2014 and no leachate has been land applied since. The applicable IDNR permit was terminated in early 2017.

3.5 Leachate Recirculation System

CDS is permitted to recirculate leachate in accordance with the IDNR Permit No. 95-SDP-01-72, renewed October 18, 2022, most recently revised October 17, 2025, Special Provision #7, if the permit conditions are met. In accordance with the Permit, leachate recirculation is authorized in those areas of Phase V that are 2H:1V away from the sideslope of the unlined area in accordance with the approved leachate recirculation request, dated August 4, 2009. However, operations have moved away from this area and this leachate recirculation area is no longer viable.

CDS did not recirculate leachate in 2025.

3.6 Leachate Workface Spray Application

Leachate can be applied to the working face in accordance with Special Provision #7 if the permit conditions are met. In 2025, no leachate was applied to the working face.

3.7 Leachate Quality Testing Results

Leachate quality testing is required by each of the POTW leachate treatment agreements. The site maintains agreements with the Albert Lea and Mason City treatment facilities. The Albert Lea permit expired in December 2022, was renewed effective January 1, 2023, and is valid through December 31, 2027. The current Mason City permit became effective in May 2024 and runs through May 2027; the updated agreement adjusted sampling parameters with Quarterly (List 1) and Semi Annual (List 2) parameter lists. In 2025, leachate was disposed at the Albert Lea and Mason City facilities.

Leachate sampling is performed as required per the leachate treatment agreements with the POTW facilities. Review of the analytical results from the April 25, 2025 leachate sampling event indicated that the BOD in Pond #1 and Pond #2 were above the discharge limit allowed at the Albert Lea WWTP. Additionally, Arsenic in Pond #2 and Pond #4 were above the discharge limit for the Mason City WWTP. The parameters were resampled in the May sampling event to allow for continued hauling operations from these ponds. The May resampling did not detect Arsenic in Pond #2 and thus hauling operations were continued from Pond #2. Laboratory reports for the WWTP sampling events listed below have not been submitted to IDNR and are included in **Appendix A**.

- January 22 (1st Quarter – List 1 Quarterly parameters)
- April 25 (2nd Quarter – List 1 Quarterly & List 2 Semi Annual parameters)
- May 29 (Leachate Pond resampling)
- July 24 (3rd Quarter – List 1 Quarterly parameters)
- October 22 (4th Quarter – List 1 Quarterly & List 2 Semi Annual parameters)

4 Conclusions and Recommendations

- CDS has undergone construction within 2024 and 2025 that includes a forcemain addition to redirect leachate from the east ponds to the northern ponds. They are also undergoing upgrades to the loadout of the north ponds. The improvements will provide flexibility for site operations. Documentation of these activities is not yet complete and will be provided when available.
- The leachate management system is currently working properly and effectively, as shown by the leachate monitoring data at the sumps (compliance points). Although there were exceedances in 2025, subsequent repair and maintenance activities stabilized the leachate levels to compliant levels.
- Previously identified leachate head well LHW-11 has been renamed for clarity as an alternate leachate head monitoring location within Phase VIII and is now designated as P-5A.
- Other than a December reading at P-5A, the alternate leachate head level monitoring data is not available for 2025 as CDS continues to address staff turnover and equipment issues.
- Leachate disposal methods in 2025 included hauling to the Albert Lea, MN WWTP and to the Mason City, IA WWTP.
- Leachate was not recirculated in the Phase V galleries in 2025 nor was leachate applied at the working face. Such activities are only allowable if permit conditions are met.
- The old leachate head wells LHW-6, LHW-9, and LHW-10 continue to be monitored, but they were installed in 1993 and over time have deteriorated, become obstructed at shallower depths, and do not provide viable or useful data.
- Based on the leachate balance (the quantity hauled off site in comparison to the quantity pumped from the Phase I, IV, V, and VIII sumps) presented in **Table 3**, in 2025, there was more leachate hauled to a treatment plant for disposal than generated onsite.

TABLES

Table 1
Leachate Head Well Level Elevations
Central Disposal Landfill
Lake Mills, Iowa
(Updated January 2026)

Leachate Headwell*	Date	TOC Elevation* (feet NGVD)	Depth to Leachate (feet)	Total Well Depth (feet)	Leachate Head Elevation (feet NGVD)	Previously Reported Leachate Head Elevation (feet NGVD)	Remarks
LHW-6	19-Oct-93	1310.30	24.89	25.40	1285.41		
LHW-6	17-Nov-93	1310.30	24.85		1285.45		
LHW-6	11-Jan-94	1310.30	24.75		1285.55		
LHW-6	17-Mar-94	1310.30	24.73		1285.57		
LHW-6	9-May-94	1310.30	24.58		1285.72		
LHW-6	30-Jun-94	1310.30	23.85		1286.45		
LHW-6	28-Jul-94	1310.30	24.41		1285.89		
LHW-6	23-Aug-94	1310.30	24.33		1285.97		
LHW-6	29-Jun-95	1310.30	22.85		1287.45		
LHW-6	27-Aug-95	1310.30	22.69		1287.61		
LHW-6	23-Sep-95	1310.30	22.85		1287.45		
LHW-6	25-Oct-95	1310.30	22.70		1287.60		
LHW-6	16-Nov-95	1310.30	22.80		1287.50		Pro-Top has been damaged
LHW-6	13-Dec-95	1310.30	24.10		1286.20		
LHW-6	30-Jan-96	1310.30	24.71		1285.59		
LHW-6	26-Feb-96	1310.30	25.10		1285.20		
LHW-6	18-Mar-96	1310.30	22.70		1287.60		
LHW-6	11-Apr-96	1310.30	22.72		1287.58		
LHW-6	17-May-96	1310.30	22.68		1287.62		
LHW-6	20-Jun-96	1310.30	22.61		1287.69		
LHW-6	26-Jul-96	1310.30	22.40		1287.90		
LHW-6	28-Aug-96	1310.30	22.40		1287.90		
LHW-6	27-Sep-96	1310.30	22.40		1287.90		
LHW-6	24-Oct-96	1310.30	22.30		1288.00		
LHW-6	24-Dec-96	1310.30	22.11		1288.19		
LHW-6	27-Jan-97	1310.30	22.10		1288.20		
LHW-6	26-Feb-97	1310.30	22.10		1288.20		
LHW-6	24-Mar-97	1310.30	22.28		1288.02		
LHW-6	18-Apr-97	1310.30	22.39		1287.91		
LHW-6	29-May-97	1310.30	22.18		1288.12		
LHW-6	24-Jun-97	1310.30	21.12		1289.18		
LHW-6	21-Jul-97	1310.30	22.71		1287.59		
LHW-6	21-Aug-97	1310.30	23.00		1287.30		
LHW-6	29-Sep-97	1310.30	22.80		1287.50		
LHW-6	29-Oct-97	1310.30	22.81		1287.49		
LHW-6	13-Nov-97	1310.30	22.85		1287.45		
LHW-6	19-Dec-97	1310.30	22.93		1287.37		
LHW-6	26-Jan-98	1310.30	22.98		1287.32		
LHW-6	19-Feb-98	1310.30	23.00		1287.30		
LHW-6	11-Mar-98	1310.30	23.41		1286.89		
LHW-6	15-Apr-98	1310.30	23.50		1286.80		
LHW-6	22-May-98	1310.30	23.47		1286.83		
LHW-6	30-Jun-98	1310.30	24.51		1285.79		
LHW-6	30-Jul-98	1310.30	24.60		1285.70		
LHW-6	26-Aug-98	1310.30	24.66		1285.64		
LHW-6	27-Sep-98	1310.30	22.04		1288.26		
LHW-6	30-Oct-98	1310.30	22.05		1288.25		
LHW-6	26-Nov-98	1310.30	22.08		1288.22		
LHW-6	28-Dec-98	1310.30	22.21		1288.09		
LHW-6	22-Mar-99	1310.30	21.50		1288.80		
LHW-6	28-Sep-99	1306.12	20.65		1285.47		
LHW-6	22-Dec-99	1306.12	20.32		1285.80		
LHW-6	23-Mar-00	1306.12	19.85		1286.27		
LHW-6	27-Jun-00	1306.12	19.50		1286.62		
LHW-6	25-Sep-00	1306.12	19.17		1286.95		
LHW-6	29-Dec-00	1306.12					Packed with snow (disregard)
LHW-6	27-Mar-01	1306.12	18.70		1287.42		
LHW-6	29-Jun-01	1306.12	16.75		1289.37		
LHW-6	7-Sep-01	1306.12	16.70		1289.42		
LHW-6	20-Dec-01	1306.12	17.40		1288.72		
LHW-6	29-Mar-02	1306.12	17.29		1288.83		
LHW-6	26-Jun-02	1306.12	17.21		1288.91		
LHW-6	26-Sep-02	1306.12	17.21		1288.91		
LHW-6	19-Dec-02	1306.12	16.43		1289.69		
LHW-6	18-Mar-03	1306.12	16.31		1289.81		
LHW-6	26-Jun-03	1306.12	15.96		1290.16		
LHW-6	29-Sep-03	1306.12	14.87		1291.25		
LHW-6	17-Dec-03	1306.12	14.91		1291.21		
LHW-6	18-Mar-04	1306.12	15.52		1290.60		
LHW-6	23-Jun-04	1306.12	15.23		1290.89		
LHW-6	20-Sep-04	1306.12	15.01		1291.11		
LHW-6	9-Dec-04	1306.12	13.90		1292.22		
LHW-6	29-Mar-05	1306.12	13.79		1292.33		
LHW-6	29-Jun-05	1306.12	14.42		1291.70		
LHW-6	20-Sep-05	1306.12	14.50		1291.62		
LHW-6	19-Dec-05	1306.12	14.29		1291.83		
LHW-6	21-Mar-06	1306.12	14.12		1292.00		
LHW-6	29-Jun-06	1306.12	14.00		1292.12		Outer casing measurement
LHW-6	27-Sep-06	1306.12	14.58		1291.54		Outer casing measurement
LHW-6		1306.12					
LHW-6	29-Mar-07	1306.12	12.91		1293.21		
LHW-6	29-Jun-07	temporarily abandoned					
LHW-6	26-Jun-08	1306.12	11.74		1294.38		Inner casing measurement
LHW-6	14-Jan-09	1306.12	11.86		1294.26		Inner casing measurement

Table 1
Leachate Head Well Level Elevations
Central Disposal Landfill
Lake Mills, Iowa
(Updated January 2026)

Leachate Headwell*	Date	TOC Elevation* (feet NGVD)	Depth to Leachate (feet)	Total Well Depth (feet)	Leachate Head Elevation (feet NGVD)	Previously Reported Leachate Head Elevation (feet NGVD)	Remarks
LHW-6	25-Mar-09	1306.12	11.71		1294.41		
LHW-6	29-Jun-09	1306.12	11.92		1294.20		Inner casing measurement
LHW-6	29-Sep-09	1306.12	12.95		1293.17		
LHW-6	30-Dec-09	1306.12	11.50		1294.62		
LHW-6	31-Mar-10	1306.12	10.60		1295.52		
LHW-6	29-Jun-10	1306.12	11.03		1295.09		Inner casing measurement
LHW-6	22-Sep-10	1306.12	10.90		1295.22		Outer casing measurement
LHW-6	20-Dec-10	1306.12	10.80		1295.32		
LHW-6	30-Mar-11	1306.12	10.49		1295.63		Outer casing measurement,'30/31-Mar-11
LHW-6	29-Jun-11	1306.12	7.55		1298.57		Inner casing measurement
LHW-6	28-Sep-11	1306.12	9.48		1296.64		Outer casing measurement
LHW-6	13-Dec-11	1306.12	9.70		1296.42		Inner casing measurement
LHW-6	28-May-12	1306.12	9.40		1296.72		
LHW-6	25-Jun-12	1306.12	9.30		1296.82		
LHW-6	25-Sep-12	1306.12	9.91		1296.21		
LHW-6	11-Dec-12	1306.12	9.70		1296.42		Inner casing measurement
LHW-6	24-Jun-13	1306.12	7.80		1298.32		
LHW-6	21-Nov-13	1306.12	8.95		1297.17		
LHW-6	21-May-14	1306.12	8.10		1298.02		Inner casing measurement
LHW-6	7-Oct-14	1306.12	7.71		1298.41		
LHW-6	2-Jun-15	1306.12	6.20		1299.92		Inner casing measurement
LHW-6	14-Oct-15	1306.12	7.15		1298.97		Inner casing measurement
LHW-6	24-May-16	1306.12	4.80		1301.32		
LHW-6	10-Nov-16	1306.12	4.14		1301.98		total depth measured at 25 feet
LHW-6	16-May-17	1306.12	2.87		1303.25		total depth measured at 25 feet
LHW-6	25-Oct-17	1306.12	4.25		1301.87		total depth measured at 25 feet
LHW-6	1-Aug-18	1306.12	3.33		1302.79		total depth measured at 25 feet
LHW-6	15-Oct-19	1306.12	3.40		1302.72		total depth measured at 25 feet
LHW-6	20-May-20	1306.12	2.00		1304.12		total depth measured at 25 feet
LHW-6	26-Jul-21	1306.12	4.70		1301.42		total depth measured at 25 feet
LHW-6	11-Nov-22	1306.12	5.19		1300.93		total depth measured at 25 feet
LHW-6	11-May-23	1306.12	5.00		1301.12		total depth measured at 25 feet
LHW-6	4-Dec-23	1306.12	6.30		1299.82		total depth measured at 25 feet
LHW-6	19-Jul-24	1306.12	4.50		1301.62		total depth measured at 25 feet
LHW-6	17-Dec-25	1306.12	4.70		1301.42		total depth measured at 24.5 feet
LHW-7	19-Oct-93		18.16				
LHW-7	17-Nov-93		18.29				
LHW-7	11-Jan-94		18.10				
LHW-7	17-Mar-94		17.90				
LHW-7	9-May-94		32.64				** casing extended 15 feet
LHW-7	30-Jun-94		47.00				
LHW-7	28-Jul-94		49.71				** casing extended 10 feet
LHW-7	23-Aug-94		41.50				
LHW-7	29-Jun-95	1332.84	45.85	53.40	1286.99		
LHW-7	27-Aug-95	1332.84	45.47		1287.37		
LHW-7	23-Sep-95	1332.84	45.99		1286.85		
LHW-7	25-Oct-95	1332.84	45.45		1287.39		
LHW-7	16-Nov-95	1332.84	45.53		1287.31		
LHW-7	13-Dec-95	1332.84	45.60		1287.24		
LHW-7	30-Jan-96	1332.84	44.89		1287.95		
LHW-7	26-Feb-96	1332.84	44.88		1287.96		
LHW-7	18-Mar-96	1332.84	45.55		1287.29		
LHW-7	11-Apr-96	1332.84	45.60		1287.24		
LHW-7	17-May-96	1332.84	45.62		1287.22		
LHW-7	20-Jun-96	1332.84	45.11		1287.73		
LHW-7	26-Jul-96	1332.84	45.83		1287.01		
LHW-7	28-Aug-96	1332.84	45.70		1287.14		
LHW-7	27-Sep-96	1332.84	45.30		1287.54		
LHW-7	24-Oct-96	1332.84	45.52		1287.32		
LHW-7	24-Dec-96	1332.84	45.81		1287.03		
LHW-7	27-Jan-97	1332.84	45.90		1286.94		
LHW-7	26-Feb-97	1332.84	45.30		1287.54		
LHW-7	24-Mar-97	1332.84	45.32		1287.52		
LHW-7	18-Apr-97	1332.84	45.40		1287.44		
LHW-7	29-May-97	1332.84	45.51		1287.33		
LHW-7	24-Jun-97	1332.84	45.51		1287.33		
LHW-7	21-Jul-97	1332.84	45.58		1287.26		
LHW-7	21-Aug-97	1332.84	45.65		1287.19		
LHW-7	29-Sep-97	1332.84	45.67		1287.17		
LHW-7	29-Oct-97	1332.84	45.69		1287.15		
LHW-7	13-Nov-97	1332.84	45.36		1287.48		
LHW-7	19-Dec-97	1332.84	45.37		1287.47		
LHW-7	26-Jan-98	1332.84	45.41		1287.43		
LHW-7	19-Feb-98	1332.84	45.42		1287.42		
LHW-7	11-Mar-98	1332.84	45.48		1287.36		
LHW-7	15-Apr-98	1332.84	45.50		1287.34		
LHW-7	22-May-98	1332.84	46.20		1286.64		
LHW-7	30-Jun-98	1332.84	47.00		1285.84		
LHW-7	30-Jul-98	1332.84	47.01		1285.83		
LHW-7	26-Aug-98	1332.84	47.05		1285.79		
LHW-7	27-Sep-98	1332.84	45.58		1287.26		
LHW-7	30-Oct-98	1332.84	45.53		1287.31		
LHW-7	26-Nov-98	1332.84	45.58		1287.26		
LHW-7	28-Dec-98	1332.84	45.60		1287.24		

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Leachate Head Well Level Elevations
Central Disposal Landfill
Lake Mills, Iowa
(Updated January 2026)

Leachate Headwell*	Date	TOC Elevation* (feet NGVD)	Depth to Leachate (feet)	Total Well Depth (feet)	Leachate Head Elevation (feet NGVD)	Previously Reported Leachate Head Elevation (feet NGVD)	Remarks
LHW-7	22-Mar-99	1332.84	45.60		1287.24		
LHW-7	28-Sep-99	1333.49	45.60		1287.89		
LHW-7	22-Dec-99	1333.49	45.72		1287.77		
LHW-7	23-Mar-00	1333.49	45.62		1287.87		
LHW-7	27-Jun-00	1333.49	45.76		1287.73		
LHW-7	25-Sep-00	1333.49	45.78		1287.71		
LHW-7	29-Dec-00	1333.49	45.70		1287.79		
LHW-7	27-Mar-01	1333.49	45.79		1287.70		
LHW-7	29-Jun-01	1333.49	45.60		1287.89		
LHW-7	17-Sep-01	1333.49	45.62		1287.87		
LHW-7	20-Dec-01	1333.49	45.78		1287.71		
LHW-7	29-Mar-02	1333.49	42.50		1290.99		
LHW-7	26-Jun-02	1333.49	45.61		1287.88		
LHW-7	26-Sep-02	1333.49	45.63		1287.86		
LHW-7	19-Dec-02	1333.49	45.48		1288.01		
LHW-7	18-Mar-03	1333.49	45.79		1287.70		
LHW-7	26-Jun-03	1333.49	46.07		1287.42		
LHW-7	29-Sep-03	1333.49	45.82		1287.67		
LHW-7	17-Dec-03	1333.49	45.88		1287.61		
LHW-7	18-Mar-04	1333.49	46.01		1287.48		
LHW-7	23-Jun-04	1333.49	48.11		1285.38		
LHW-7	20-Sep-04	1333.49	45.95		1287.54		
LHW-7	9-Dec-04	1333.49	NA				Obstructed @ 19.3'
LHW-7	29-Mar-05	1333.49	NA				Obstructed @ 19.3'
LHW-7	29-Jun-05	1333.49	NA				DRY (Obstructed)
LHW-7	20-Sep-05	1333.49	NA				DRY (Obstructed)
LHW-7	19-Dec-05	1333.49	NA				DRY (Obstructed)
LHW-7	21-Mar-06	1333.49	NA				DRY (Obstructed)
LHW-7	29-Jun-06	1334.49	NA				DRY (Obstructed)
LHW-7	27-Sep-06	1334.49	NA				DRY (Obstructed @ 19.3')
LHW-7		1334.49	NA				
LHW-7	29-Mar-07	1334.49	NA				Obstructed
LHW-7	29-Jun-07	1334.49	NA				Dry
LHW-7	19-Sep-07	1334.49	NA				Dry
LHW-7	31-Mar-08	1334.49	NA				Dry
LHW-7	26-Jun-08	1334.49	NA				DRY (obstructed at 34.62)
LHW-7	2-Oct-08	1334.49	NA				Dry
LHW-7	14-Jan-09	1334.49	NA				Dry
LHW-7	25-Mar-09	1334.49	NA				obstructed at 19 feet
LHW-7	29-Jun-09	1334.49	NA				Dry
LHW-7	29-Sep-09	1334.49	NA				Dry
LHW-7	30-Dec-09	1334.49	NA				Dry
LHW-7	31-Mar-10	1334.49	NA				Dry
LHW-7	29-Jun-10	1334.49	NA				dry at 19 feet
LHW-7	22-Sep-10	1334.49	NA				dry at 19 feet
LHW-7	20-Dec-10	1334.49	NA				Dry
LHW-7	30-Mar-11	1334.49	NA				Dry
LHW-7	28-Sep-11	1334.49	NA				Dry
LHW-7	13-Dec-11	1334.49	NA				dry at 19 feet
LHW-7	28-May-12	1334.49	NA				Dry
LHW-7	25-Jun-12	1334.49	NA				Dry
LHW-7	25-Sep-12	1334.49	NA				casing broken off at grade
LHW-7	11-Dec-12	1334.49	NA				casing broken off at grade
LHW-7	16-May-17	1334.49	NA				Dry at 15 feet
LHW-7	25-Oct-17	1334.49	NA				could not locate
LHW-7	1-Aug-18	1334.49	NA				LHW is gone/buried due to site activities
LHW-8	19-Oct-93		23.33				
LHW-8	17-Nov-93		23.58				
LHW-8	11-Jan-94		18.47				** 5.52 ft of casing removed
LHW-8	17-Mar-94		18.80				
LHW-8	9-May-94		28.80				** casing extended 10 feet
LHW-8	30-Jun-94		28.80				
LHW-8	28-Jul-94		38.80				** casing extended 10 feet
LHW-8	23-Aug-94		38.80				
LHW-8	29-Jun-95	1335.22	DRY	35.10			
LHW-8	27-Aug-95	1335.22	DRY				
LHW-8	23-Sep-95	1335.22	DRY				
LHW-8	25-Oct-95	1335.22	DRY				
LHW-8	16-Nov-95	1335.22	DRY				
LHW-8	13-Dec-95	1335.22	DRY				
LHW-8	30-Jan-96	1335.22	DRY				
LHW-8	26-Feb-96	1335.22	DRY				
LHW-8	18-Mar-96	1335.22	DRY				
LHW-8	11-Apr-96	1335.22	DRY				
LHW-8	17-May-96	1335.22	DRY				
LHW-8	20-Jun-96	1335.22	DRY				
LHW-8	26-Jul-96	1335.22	DRY				
LHW-8	26-Aug-96	1335.22	DRY				
LHW-8	27-Sep-96	1335.22	DRY				
LHW-8	24-Oct-96	1335.22	DRY				
LHW-8	24-Dec-96	1335.22	DRY				
LHW-8	27-Jan-97	1335.22	DRY				
LHW-8	26-Feb-97	1335.22	Iced over-can't open				
LHW-8	24-Mar-97	1335.22	DRY				

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Central Disposal Landfill
Lake Mills, Iowa
(Updated January 2026)

Leachate Headwell*	Date	TOC Elevation* (feet NGVD)	Depth to Leachate (feet)	Total Well Depth (feet)	Leachate Head Elevation (feet NGVD)	Previously Reported Leachate Head Elevation (feet NGVD)	Remarks
LHW-8	18-Apr-97	1335.22	DRY				
LHW-8	29-May-97	1335.22	DRY				
LHW-8	24-Jun-97	1335.22	DRY				
LHW-8	21-Jul-97	1335.22	DRY				
LHW-8	21-Aug-97	1335.22	DRY				
LHW-8	29-Sep-97	1335.22	DRY				
LHW-8	29-Oct-97	1335.22	DRY				
LHW-8	13-Nov-97	1335.22	DRY				
LHW-8	19-Dec-97	1335.22	DRY				
LHW-8	26-Jan-98	1335.22	DRY				
LHW-8	19-Feb-98	1335.22	DRY				
LHW-8	11-Mar-98	1335.22	DRY				
LHW-8	15-Apr-98	1335.22	DRY				
LHW-8	22-May-98	1335.22	DRY				
LHW-8	30-Jun-98	1335.22	DRY				
LHW-8	30-Jul-98	1335.22	DRY				
LHW-8	26-Aug-98	1335.22	DRY				
LHW-8	27-Sep-98	1335.22	DRY				
LHW-8	30-Oct-98	1335.22	DRY				
LHW-8	26-Nov-98	1335.22	DRY				
LHW-8	28-Dec-98	1335.22	DRY				
LHW-8	22-Mar-99	1335.22	34.90		1300.32		could hear leachate bubbling.
LHW-8	28-Sep-99	1343.75	DRY				
LHW-8	22-Dec-99	1343.75	DRY				
LHW-8	23-Mar-00	1343.75	DRY				
LHW-8	27-Jun-00	1343.75	DRY				
LHW-8	25-Sep-00	1343.75	DRY				
LHW-8	27-Mar-01	1343.75	DRY				
LHW-8	29-Jun-01	1343.75	DRY				
LHW-8	17-Sep-01	1343.75	DRY				
LHW-8	20-Dec-01	1343.75	DRY				
LHW-8	29-Mar-02	1343.75	DRY				
LHW-8	26-Jun-02	1343.75	DRY				
LHW-8	26-Sep-02	1343.75	DRY				
LHW-8	19-Dec-02	1343.75	DRY				
LHW-8	18-Mar-03	1343.75	DRY				
LHW-8	26-Jun-03	1343.75	DRY				
LHW-8	29-Sep-03	1343.75	DRY				
LHW-8	17-Dec-03	1343.75	DRY				
LHW-8	18-Mar-04	1343.75	DRY				
LHW-8	23-Jun-04	1343.75	DRY				
LHW-8	20-Sep-04	1343.75	8.17		1335.58		
LHW-8	9-Dec-04	1343.75	DRY				
LHW-8	29-Mar-05	1343.75	DRY				
LHW-8	29-Jun-05	1343.75	DRY				
LHW-8	20-Sep-05	1343.75	DRY				
LHW-8	19-Dec-05	1343.75	DRY				
LHW-8	21-Mar-06	1343.75	DRY				
LHW-8	29-Jun-06	1343.75	DRY				
LHW-8	27-Sep-06	1344.75	DRY				
LHW-8							
LHW-8	29-Mar-07	1344.75	Obstructed				
LHW-8	29-Jun-07	Temporarily abandoned					
LHW-8	2-Oct-08	1344.75	DRY				
LHW-8	14-Jan-09	1344.75	DRY				
LHW-8	25-Mar-09	1344.75	DRY				obstructed at 34.8 feet
LHW-8	29-Jun-09	1344.75	DRY				obstructed at 34.8 feet
LHW-8	29-Sep-09	1344.75	DRY				
LHW-8	30-Dec-09	1344.75	DRY				obstructed at 34.6
LHW-8	31-Mar-10	1344.75	34.58		1310.17		
LHW-8	29-Jun-10	1344.75	35.80				dry at 34.8
LHW-8	22-Sep-10	1344.75	34.65		1310.10		
LHW-8	20-Dec-10	1344.75	34.20		1310.55		
LHW-8	30-Mar-11	1344.75	33.57		1311.18		'30/31-Mar-11
LHW-8	29-Jun-11	1344.75	33.80		1310.95		
LHW-8	28-Sep-11	1344.75	34.40		1310.35		
LHW-8	28-May-12	1344.75	Buried				Buried - unable to measure
LHW-8	11-Dec-12	1344.75	Buried				Buried - unable to measure
LHW-9	19-Oct-93		13.25				
LHW-9	17-Nov-93		13.42				
LHW-9	11-Jan-94		13.80				
LHW-9	17-Mar-94		13.20				
LHW-9	9-May-94		16.61				** casing extended 4.5 feet
LHW-9	30-Jun-94		16.46				
LHW-9	28-Jul-94		16.46				
LHW-9	23-Aug-94		16.35				
LHW-9	29-Jun-95	1328.28	34.90	47.00	1293.38	1277.65	
LHW-9	27-Aug-95	1328.28	34.79		1293.49	1277.76	
LHW-9	23-Sep-95	1328.28	31.60		1296.68	1280.95	
LHW-9	25-Oct-95	1328.28	34.90		1293.38	1277.65	
LHW-9	16-Nov-95	1328.28	34.74		1293.54	1277.81	
LHW-9	13-Dec-95	1328.28	34.78		1293.50	1277.77	
LHW-9	30-Jan-96	1328.28	DRY				
LHW-9	26-Feb-96	1328.28	DRY				

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Lake Mills, Iowa
(Updated January 2026)

Leachate Headwell*	Date	TOC Elevation* (feet NGVD)	Depth to Leachate (feet)	Total Well Depth (feet)	Leachate Head Elevation (feet NGVD)	Previously Reported Leachate Head Elevation (feet NGVD)	Remarks
LHW-9	18-Mar-96	1328.28	34.90		1293.38	1277.65	Incorrect TOC elevation (1312.55) was used up to June 1999; previously reported elevations were based on the incorrect elevation. TOC elevation has been updated to 1328.28.
LHW-9	11-Apr-96	1328.28	DRY				
LHW-9	17-May-96	1328.28	DRY				
LHW-9	20-Jun-96	1328.28	DRY				
LHW-9	26-Jul-96	1328.28	34.70		1293.58	1277.85	
LHW-9	28-Aug-96	1328.28	34.85		1293.43	1277.70	
LHW-9	27-Sep-96	1328.28	34.45		1293.83	1278.10	
LHW-9	24-Oct-96	1328.28	34.60		1293.68	1277.95	
LHW-9	24-Dec-96	1328.28	35.06		1293.22	1277.49	
LHW-9	27-Jan-97	1328.28	35.01		1293.27	1277.54	
LHW-9	26-Feb-97	1328.28	34.30		1293.98	1278.25	
LHW-9	24-Mar-97	1328.28	34.26		1294.02	1278.29	
LHW-9	18-Apr-97	1328.28	34.10		1294.18	1278.45	
LHW-9	29-May-97	1328.28	34.10		1294.18	1278.45	
LHW-9	24-Jun-97	1328.28	34.08		1294.20	1278.47	
LHW-9	21-Jul-97	1328.28	33.61		1294.67	1278.94	
LHW-9	21-Aug-97	1328.28	33.79		1294.49	1278.76	
LHW-9	29-Sep-97	1328.28	33.70		1294.58	1278.85	
LHW-9	29-Oct-97	1328.28	33.70		1294.58	1278.85	
LHW-9	13-Nov-97	1328.28	33.66		1294.62	1278.89	
LHW-9	19-Dec-97	1328.28	33.60		1294.68	1278.95	
LHW-9	26-Jan-98	1328.28	33.62		1294.66	1278.93	Incorrect TOC elevation (1312.55) was used up to June 1999; previously reported elevations were based on the incorrect elevation. TOC elevation has been updated to 1328.28.
LHW-9	19-Feb-98	1328.28	33.68		1294.60	1278.87	
LHW-9	11-Mar-98	1328.28	33.70		1294.58	1278.85	
LHW-9	15-Apr-98	1328.28	33.71		1294.57	1278.84	
LHW-9	22-May-98	1328.28	33.91		1294.37	1278.64	
LHW-9	30-Jun-98	1328.28	33.98		1294.30	1278.57	
LHW-9	30-Jul-98	1328.28	34.02		1294.26	1278.53	
LHW-9	26-Aug-98	1328.28	34.06		1294.22	1278.49	
LHW-9	27-Sep-98	1328.28	32.87		1295.41	1279.68	
LHW-9	30-Oct-98	1328.28	32.94		1295.34	1279.61	
LHW-9	26-Nov-98	1328.28	32.91		1295.37	1279.64	
LHW-9	28-Dec-98	1328.28	32.98		1295.30	1279.57	
LHW-9	22-Mar-99	1328.28	32.80		1295.48	1279.75	
LHW-9	28-Sep-99	1328.28	32.02		1296.26		
LHW-9	22-Dec-99	1328.28	32.14		1296.14		
LHW-9	23-Mar-00	1328.28	32.40		1295.88		
LHW-9	27-Jun-00	1328.28	33.61		1294.67		
LHW-9	25-Sep-00	1328.28	33.58		1294.70		
LHW-9	29-Dec-00	1328.28	32.61		1295.67		
LHW-9	27-Mar-01	1328.28	32.61		1295.67		
LHW-9	29-Jun-01	1328.28	31.99		1296.29		
LHW-9	17-Sep-01	1328.28	31.91		1296.37		
LHW-9	20-Dec-01	1328.28	31.89		1296.39		
LHW-9	29-Mar-02	1328.28	31.19		1297.09		
LHW-9	26-Jun-02	1328.28	31.52		1296.76		
LHW-9	19-Dec-02	1328.28	32.42		1295.86		
LHW-9	18-Mar-03	1328.28	32.40		1295.88		
LHW-9	26-Jun-03	1328.28	30.83		1297.45		
LHW-9	29-Sep-03	1328.28	30.98		1297.30		
LHW-9	17-Dec-03	1328.28	31.00		1297.28		
LHW-9	18-Mar-04	1328.28	31.21		1297.07		
LHW-9	23-Jun-04	1328.28	30.80		1297.48		
LHW-9	20-Sep-04	1328.28	30.63		1297.65		
LHW-9	9-Dec-04	1328.28	31.39		1296.89		
LHW-9	29-Mar-05	1328.28	31.18		1297.10		
LHW-9	29-Jun-05	1328.28	30.85		1297.43		
LHW-9	20-Sep-05	1328.28	30.90		1297.38		
LHW-9	19-Dec-05	1328.28	31.83		1296.45		
LHW-9	21-Mar-06	1328.28	30.52		1297.76		
LHW-9	29-Jun-06	1328.28	30.99		1297.29		
LHW-9	27-Sep-06	1328.28	31.1		1297.18		
LHW-9							
LHW-9	29-Mar-07	1328.28	30.7		1297.55		
LHW-9	29-Jun-07	1328.28	30.3		1297.97		
LHW-9	19-Sep-07	1328.28	29.1		1299.22		
LHW-9	31-Mar-08	1328.28	29.0		1299.33		
LHW-9	26-Jun-08	1328.28	28.9		1299.38		
LHW-9	2-Oct-08	1328.28	30.20		1298.08		
LHW-9	14-Jan-09	1328.28	30.01		1298.27		
LHW-9	25-Mar-09	1328.28	29.02		1299.26		
LHW-9	29-Jun-09	1328.28	28.56		1299.72		
LHW-9	29-Sep-09	1328.28	30.30		1297.98		
LHW-9	30-Dec-09	1328.28	29.30		1298.98		
LHW-9	31-Mar-10	1328.28	29.30		1298.98		
LHW-9	29-Jun-10	1328.28	29.40		1298.88		
LHW-9	22-Sep-10	1328.28	29.00		1299.28		
LHW-9	20-Dec-10	1328.28	29.85		1298.43		
LHW-9	30-Mar-11	1328.28	29.52		1298.76		'30/31-Mar-11
LHW-9	29-Jun-11	1328.28	28.30		1299.98		
LHW-9	28-Sep-11	1328.28	28.30		1299.98		
LHW-9	13-Dec-11	1328.28	30.70		1297.58		
LHW-9	28-May-12	1328.28	30.00		1298.28		

Table 1
Leachate Head Well Level Elevations
Central Disposal Landfill
Lake Mills, Iowa
(Updated January 2026)

Leachate Headwell*	Date	TOC Elevation* (feet NGVD)	Depth to Leachate (feet)	Total Well Depth (feet)	Leachate Head Elevation (feet NGVD)	Previously Reported Leachate Head Elevation (feet NGVD)	Remarks
LHW-9	25-Jun-12	1328.28	28.80		1299.48		
LHW-9	25-Sep-12	1328.28	29.20		1299.08		
LHW-9	11-Dec-12	1328.28	29.80		1298.48		
LHW-9	24-Jun-13	1328.28	21.90		1306.38		
LHW-9	21-Nov-13	1328.28	26.90		1301.38		
LHW-9	21-May-14	1328.28	17.66		1310.62		
LHW-9	7-Oct-14	1328.28	17.90		1310.38		
LHW-9	2-Jun-15	1328.28	17.95		1310.33		
LHW-9	14-Oct-15	1328.28	19.21		1309.07		
LHW-9	24-May-16	1328.28	18.20		1310.08		
LHW-9	10-Nov-16	1328.28	12.80		1315.48		total depth measurements indicates obstruction @ 18.5 ft
LHW-9	16-May-17	1328.28	11.35		1316.93		total depth measured at 40 feet
LHW-9	25-Oct-17	1328.28	12.53		1315.75		total depth measured at 40 feet
LHW-9	1-Aug-18	1328.28	12.30		1315.98		total depth measured at 40 feet
LHW-9	15-Oct-19	1328.28	12.00		1316.28		total depth measured at 40 feet
LHW-9	20-May-20	1328.28	10.90		1317.38		total depth measured at 40 feet
LHW-9	26-Jul-21	1328.28	12.40		1315.88		total depth measured at 40 feet
LHW-9	11-Nov-22	1328.28	13.20		1315.08		total depth measured at 40 feet
LHW-9	11-May-23	1328.28	13.00		1315.28		total depth measured at 40 feet
LHW-9	4-Dec-23	1328.28	14.00		1314.28		total depth measured at 40 feet
LHW-9	19-Jul-24	1328.28	11.20		1317.08		total depth measured at 40 feet
LHW-9	17-Dec-25	1328.28	12.00		1316.28		total depth measured at 17.5 feet
LHW-10	19-Oct-93	1309.56	13.80	26.95	1295.76		
LHW-10	17-Nov-93	1309.56	13.84		1295.72		
LHW-10	11-Jan-94	1309.56	13.80		1295.76		
LHW-10	17-Mar-94	1309.56	13.78		1295.78		
LHW-10	9-May-94	1309.56	13.63		1295.93		
LHW-10	30-Jun-94	1309.56	13.35		1296.21		
LHW-10	28-Jul-94	1309.56	13.63		1295.93		
LHW-10	23-Aug-94	1309.56	13.46		1296.10		
LHW-10	29-Jun-95	1309.56	12.74		1296.82		
LHW-10	27-Aug-95	1309.56	12.66		1296.90		
LHW-10	23-Sep-95	1309.56	12.81		1296.75		
LHW-10	25-Oct-95	1309.56	12.80		1296.76		
LHW-10	16-Nov-95	1309.56	12.83		1296.73		
LHW-10	13-Dec-95	1309.56	12.47		1297.09		
LHW-10	30-Jan-96	1309.56	12.49		1297.07		
LHW-10	26-Feb-96	1309.56	12.50		1297.06		
LHW-10	18-Mar-96	1309.56	12.95		1296.61		
LHW-10	11-Apr-96	1309.56	12.98		1296.58		
LHW-10	17-May-96	1309.56	12.90		1296.66		
LHW-10	20-Jun-96	1309.56	12.70		1296.86		
LHW-10	26-Jul-96	1309.56	12.90		1296.66		
LHW-10	28-Aug-96	1309.56	12.74		1296.82		
LHW-10	27-Sep-96	1309.56	12.85		1296.71		
LHW-10	24-Oct-96	1309.56	12.90		1296.66		
LHW-10	24-Dec-96	1309.56	13.00		1296.56		
LHW-10	27-Jan-97	1309.56	13.00		1296.56		
LHW-10	26-Feb-97	1309.56	12.70		1296.86		
LHW-10	24-Mar-97	1309.56	12.80		1296.76		
LHW-10	18-Apr-97	1309.56	12.90		1296.66		
LHW-10	29-May-97	1309.56	12.88		1296.68		
LHW-10	24-Jun-97	1309.56	12.45		1297.11		
LHW-10	21-Jul-97	1309.56	12.00		1297.56		
LHW-10	21-Aug-97	1309.56	12.10		1297.46		
LHW-10	29-Sep-97	1309.56	12.04		1297.52		
LHW-10	29-Oct-97	1309.56	12.10		1297.46		
LHW-10	13-Nov-97	1309.56	12.10		1297.46		
LHW-10	19-Dec-97	1309.56	12.12		1297.44		
LHW-10	26-Jan-98	1309.56	12.15		1297.41		
LHW-10	19-Feb-98	1309.56	12.18		1297.38		
LHW-10	11-Mar-98	1309.56	12.20		1297.36		
LHW-10	15-Apr-98	1309.56	12.30		1297.26		
LHW-10	22-May-98	1309.56	13.31		1296.25		
LHW-10	30-Jun-98	1309.56	12.41		1297.15		
LHW-10	30-Jul-98	1309.56	12.46		1297.10		
LHW-10	26-Aug-98	1309.56	12.52		1297.04		
LHW-10	27-Sep-98	1309.56	10.90		1298.66		
LHW-10	30-Oct-98	1309.56	10.63		1298.93		
LHW-10	26-Nov-98	1309.56	9.81		1299.75		
LHW-10	28-Dec-98	1309.56	9.86		1299.70		
LHW-10	22-Mar-99	1309.56	10.70		1298.86		
LHW-10	28-Sep-99	1306.26	9.42		1296.84		
LHW-10	22-Dec-99	1306.26	9.82		1296.44		
LHW-10	23-Mar-00	1306.26	10.11		1296.15		
LHW-10	27-Jun-00	1306.26	9.62		1296.64		
LHW-10	25-Sep-00	1306.26	9.62		1296.64		
LHW-10	29-Dec-00	1306.26	9.81		1296.45		
LHW-10	27-Mar-01	1306.26	9.71		1296.55		
LHW-10	29-Jun-01	1306.26	8.12		1298.14		
LHW-10	17-Sep-01	1306.26	8.50		1297.76		
LHW-10	20-Dec-01	1306.26	8.64		1297.62		
LHW-10	29-Mar-02	1306.26	4.91		1301.35		

Table 1
Leachate Head Well Level Elevations
Central Disposal Landfill
Lake Mills, Iowa
(Updated January 2026)

Leachate Headwell*	Date	TOC Elevation* (feet NGVD)	Depth to Leachate (feet)	Total Well Depth (feet)	Leachate Head Elevation (feet NGVD)	Previously Reported Leachate Head Elevation (feet NGVD)	Remarks
LHW-10	26-Jun-02	1306.26	9.31		1296.95		
LHW-10	26-Sep-02	1306.26	8.50		1297.76		
LHW-10	19-Dec-02	1306.26	9.12		1297.14		
LHW-10	18-Mar-03	1306.26	10.01		1296.25		
LHW-10	26-Jun-03	1306.26	8.73		1297.53		
LHW-10	29-Sep-03	1306.26	9.43		1296.83		
LHW-10	17-Dec-03	1306.26	9.49		1296.77		
LHW-10	18-Apr-04	1306.26	9.79		1296.47		
LHW-10	23-Jun-04	1306.26	8.15		1298.11		
LHW-10	20-Sep-04	1306.26	7.93		1298.33		
LHW-10	9-Dec-04	1306.26	8.62		1297.64		
LHW-10	29-Mar-05	1306.26	9.32		1296.94		
LHW-10	29-Jun-05	1306.26	7.98		1298.28		
LHW-10	20-Sep-05	1306.26	8.62		1297.64		
LHW-10	19-Dec-05	1306.26	8.49		1297.77		
LHW-10	21-Mar-06	1306.26	9.04		1297.22		
LHW-10	29-Jun-06	1306.26	8.79		1297.47		
LHW-10	27-Sep-06	1306.26	9.12		1297.14		
LHW-10	29-Mar-07	1306.26	8.60		1297.66		
LHW-10	29-Jun-07	1306.26	8.64		1297.62		
LHW-10	19-Sep-07	1306.26	7.78		1298.48		
LHW-10	31-Mar-08	1306.26	8.50		1297.76		
LHW-10	26-Jun-08	1306.26	7.38		1298.88		
LHW-10	2-Oct-08	1306.26	8.55		1297.71		
LHW-10	14-Jan-09	1306.26	9.00		1297.26		
LHW-10	25-Mar-09	1306.26	8.58		1297.68		
LHW-10	29-Jun-09	1306.26	7.15		1299.11		
LHW-10	29-Sep-09	1306.26	8.32		1297.94		
LHW-10	30-Dec-09	1306.26	8.20		1298.06		
LHW-10	31-Mar-10	1306.26	7.25		1299.01		
LHW-10	29-Jun-10	1306.26	7.32		1298.94		
LHW-10	22-Sep-10	1306.26	8.11		1298.15		
LHW-10	20-Dec-10	1306.26	8.68		1297.58		
LHW-10	30-Mar-11	1306.26	9.09		1297.17		'30/31-Mar-11
LHW-10	29-Jun-11	1306.26	7.25		1299.01		
LHW-10	28-Sep-11	1306.26	8.75		1297.51		
LHW-10	13-Dec-11	1306.26	8.85		1297.41		
LHW-10	28-May-12	1306.26	9.10		1297.16		
LHW-10	1-Aug-18	1306.26	3.60		1302.66		
LHW-10	15-Oct-19	1306.26	2.10		1304.16		
LHW-10	20-May-20	1306.26	2.00		1304.26		
LHW-10	26-Jul-21	1306.26	4.60		1301.66		
LHW-10	11-Nov-22	1306.26	5.41		1300.85		
LHW-10	11-May-23	1306.26	5.20		1301.06		
LHW-10	4-Dec-23	1306.26	5.80		1300.46		
LHW-10	19-Jul-24	1306.26	4.30		1301.96		
LHW-10	17-Dec-25	1306.26	5.40		1300.86		total depth measured at 20.5'
LHW-11	4-Dec-23	1283.32	146.00	150.00	1137.32		
LHW-11	19-Jul-24	1283.32	7.00	150.00	1276.32		

Note:
*Leachate Head Wells have histroically been identified with "LW" or "LHW" designations (i.e. LW-9 or LHW-9).
NA = Not Avaliable (not measured, ostructed, damaged, not accessible).
- LHW-11 was identified as an alternate leachate head monitoring point in 2025 and is now denoted as P-5A. 2025 data is provided on Table 2.

Table 2

2025 Leachate Sumps Liquid Level

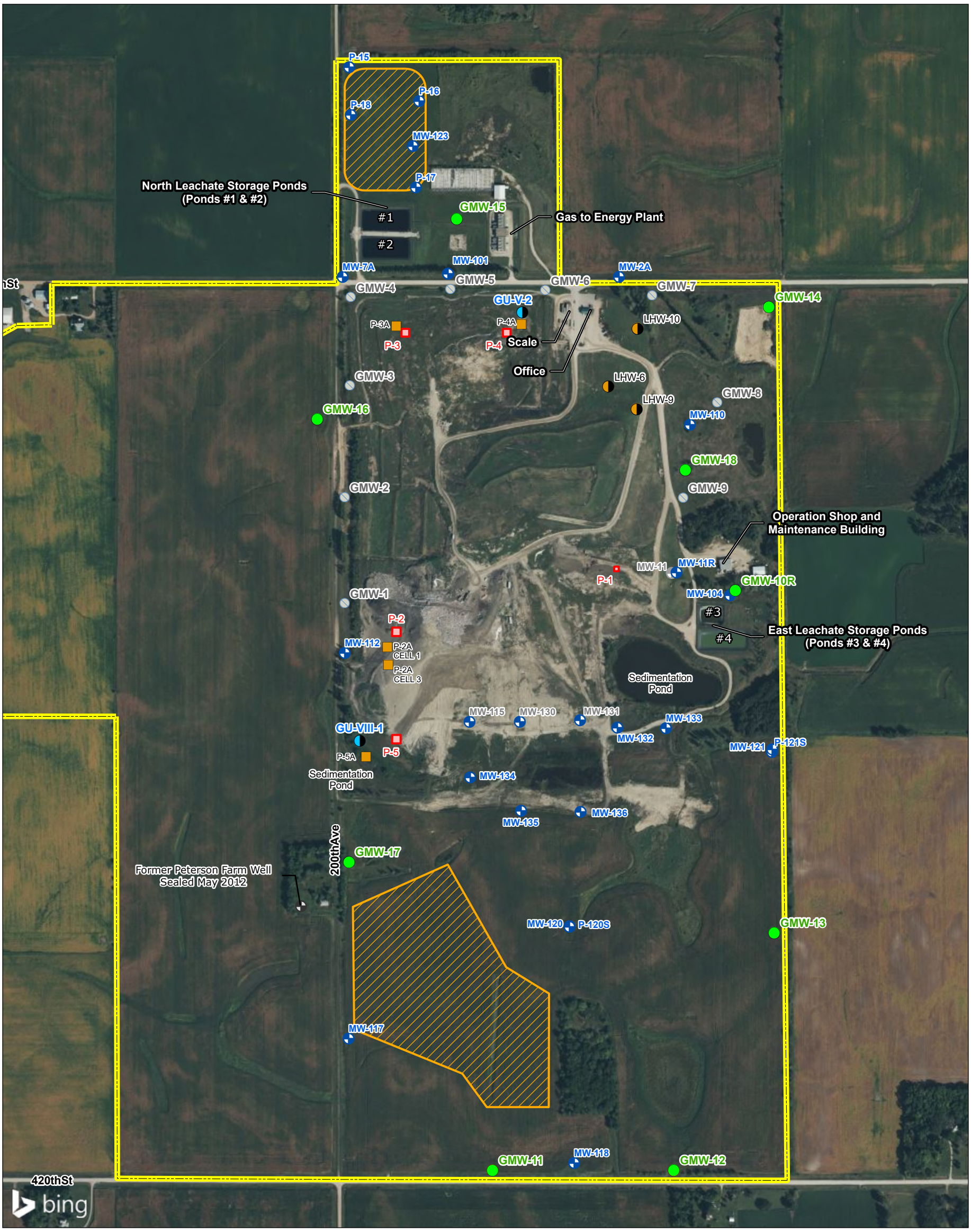
	P1	P2	P3	P4		P5		
Date	**Phase I Sump Liquid Level. Point of Compliance. Exceedance Level is 36.1 inches**	**Phase IV Sump Liquid Level. Point of Compliance. Exceedance Level is 60.1**	**Phase V Cell 1 Sump Liquid Level. Point of Compliance. Exceedance Level is 60 inches.**	**Phase V Cell 2 Sump Liquid Level. Point of Compliance. Exceedance level is 84 inches**	**Phase V Cell 2 Secondary Monitoring. Exceedance level is 12 inches**	**Phase VIII Sump Liquid Level. Point of Compliance. Exceedance level is 84 inches**	**Phase VIII Secondary Monitoring Exceedance level is 12 inches**	**Comments**
January	244.1	245.6	35.8	22.9	0.01	49.6	NR	P1 & P2 were periodically inoperable and received maintenance
February	34.0	40.1	40.3	23.3	0	48.7	NR	
March	32.6	41.9	44.6	20.9	0	51.9	NR	P2 received connection maintenance
April	33.6	38.1	48.3	22.1	0.01	57.7	NR	P2 received forcemain maintenance
May	43.8	41.3	41.8	22.5	0	70.3	NR	P1 received a new pump.
June	33.6	360.6	38.7	20.4	0	54.4	NR	P2 received forcemain maintenance
July	29.2	38.9	41.5	8.2	0	47.9	NR	
August	26.4	37.3	40.4	21.5	0	48.5	NR	
September	500.8	103.1	39.4	21.3	0	49.3	NR	
October	231.1	481.3	38.4	9.5	0	51.7	NR	
November	26.9	213.2	40.1	16.8	0	47.9	NR	
December	28.9	41.6	39.9	31.9	0	48.5	51.0	

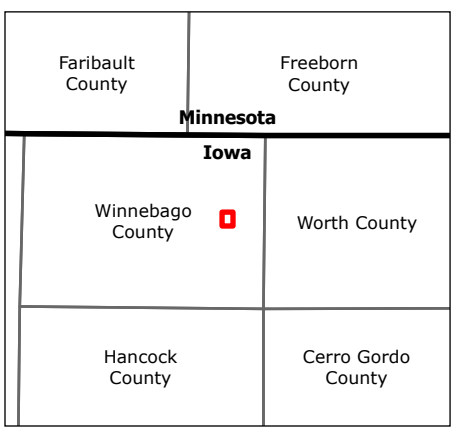
NR = Not Recorded

Table 3
Summary of 2025 Leachate Collection and Disposal
Central Disposal Landfill

Leachate Disposed (gallons)		9,886,199
Total leachate recirculated in Phase V gallery	0	
Total leachate spray irrigated at the north site (permit terminated)	0	
Total leachate spray irrigated at the south site (permit terminated)	0	
Total leachate applied to Central Fill Area workface	0	
Total leachate hauled to Albert Lea, MN POTW	9,005,085	
Total leachate hauled to Northwood, IA POTW	0	
Total leachate hauled to Mason City, IA POTW	881,114	
Est. Leachate Collected (gallons)		9,374,760
Total recorded leachate pumped from Phase I sump (P-1)	2,982,960	
Total recorded leachate pumped from Phase IV sump (P-2)	2,674,620	
Total recorded leachate pumped from Phase V, Cell 1 sump (P-3)	622,080	
Total recorded leachate pumped from Phase V, Cell 2 sump (P-4)	1,348,200	
Total recorded leachate pumped from Phase VIII sump (P-5)	1,746,900	

FIGURES





Notes
1. Coordinate System: NAD 1983 StatePlane Iowa North FIPS 1401 Feet
2. Data Sources: Bing Maps
3. Background: Bing Aerial Imagery

Legend

- Property Line
- Monitoring Well
- Sealed Monitoring Well
- Sealed Private Well
- Leachate Head Well
- Alternate Leachate Head Level Monitoring Location
- Sealed Gas Monitoring Probe
- Groundwater Underdrain
- Subsurface Gas Monitoring Probe
- Leachate Sump
- Former Spray Irrigation Site (Permit Terminated 2017)

0 300 600 Feet

(At original document size of 11x17)
1:7,200

N

Stantec

Project Location
T99N, R23W, S21
Lake Mills, Winnebago Co., IA

Prepared by BS on 2026-01-21

Client/Project
227708670
Central Disposal Systems, Inc.
2025 Annual Report

Figure No.
1

Title
Landfill Monitoring Network

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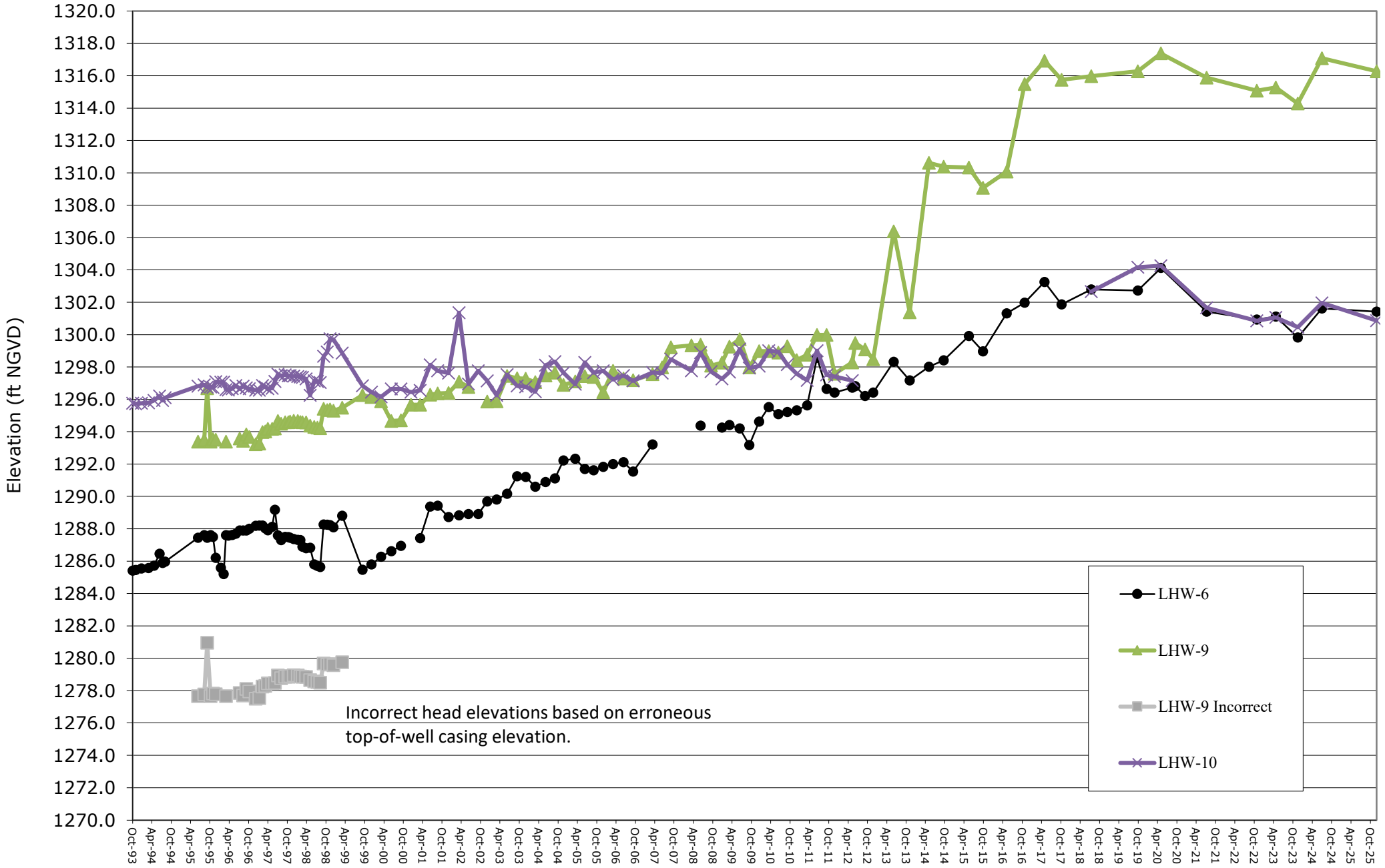
Figure 2
Central Disposal Landfill - Lake Mills, Iowa
Leachate Head Well Elevations LHW-6, LHW-9, LHW-10



U:\227702549\technical\Annual Reports\2025\LCSPE\master tables\Table 1 Updated.xls

APPENDIX A – 2025 LEACHATE LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

February 10, 2025

Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1819390
Samples Received:	01/23/2025
Project Number:	500
Description:	Qrtly WWTP-Leachate List 1(1,4,7,10)
Site:	IA02
Report To:	Aaron Rebmann 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

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LEACHATE POND #1 RAW L1819390-01 GW

Collected by: Mike H | Collected date/time: 01/22/25 11:10 | Received date/time: 01/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2440220	1	01/27/25 03:05	01/27/25 03:05	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2438666	1	01/23/25 13:45	01/24/25 17:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2440308	1	01/27/25 08:16	01/27/25 11:56	TJL	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2439048	1	01/24/25 11:12	01/24/25 11:12	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2438770	20	01/23/25 22:37	01/23/25 22:37	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2439991	10	01/26/25 07:30	01/26/25 23:01	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2440220	1	01/27/25 03:05	01/27/25 03:05	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2440633	10	01/29/25 10:29	01/29/25 18:16	FNR	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2438548	1	01/23/25 13:54	01/28/25 11:08	EAO	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2438483	1	01/23/25 11:09	01/23/25 11:09	JAS	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2440054	1	01/26/25 09:33	01/26/25 22:34	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2438797	1	01/24/25 11:00	01/24/25 11:00	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2438625	1	01/24/25 00:11	01/24/25 00:11	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2438625	5	01/24/25 00:29	01/24/25 00:29	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2439082	1	01/25/25 15:35	01/27/25 12:46	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2439284	1	01/25/25 16:20	01/26/25 08:22	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2441940	1	01/30/25 00:08	01/30/25 00:08	ACG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2439824	1	01/25/25 14:58	01/27/25 15:43	LS	Mt. Juliet, TN

LEACHATE POND #3 RAW L1819390-02 GW

Collected by: Mike H | Collected date/time: 01/22/25 11:45 | Received date/time: 01/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2440220	1	01/27/25 03:07	01/27/25 03:07	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2438666	1	01/23/25 13:45	01/24/25 17:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2440308	1	01/27/25 08:16	01/27/25 11:56	TJL	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2439048	1	01/24/25 11:19	01/24/25 11:19	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2438770	20	01/23/25 22:39	01/23/25 22:39	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2439991	10	01/26/25 07:30	01/26/25 22:23	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2440220	10	01/27/25 03:07	01/27/25 03:07	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2444491	5	02/02/25 13:28	02/02/25 13:59	FNR	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2438548	1	01/23/25 13:58	01/28/25 11:11	EAO	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2438483	1	01/23/25 11:14	01/23/25 11:14	JAS	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2440054	2	01/26/25 09:33	01/26/25 22:35	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2438797	1	01/24/25 11:00	01/24/25 11:00	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2438625	1	01/24/25 00:47	01/24/25 00:47	AJC	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2438625	5	01/24/25 01:05	01/24/25 01:05	AJC	Mt. Juliet, TN
Mercury by Method 7470A	WG2439082	1	01/25/25 15:35	01/27/25 12:49	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2439284	1	01/25/25 16:20	01/26/25 08:23	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2441940	1	01/30/25 00:28	01/30/25 00:28	ACG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2439824	1	01/25/25 14:58	01/25/25 22:53	LS	Mt. Juliet, TN

LEACHATE POND #1 RAW L1819390-03 Waste

Collected by: Mike H | Collected date/time: 01/22/25 11:10 | Received date/time: 01/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2439562	1	01/25/25 15:15	01/25/25 15:15	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2440192	1	01/26/25 14:54	01/27/25 13:49	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2440345	1	01/27/25 09:52	01/27/25 16:28	MAP	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

LEACHATE POND #3 RAW L1819390-04 Waste

Collected by: Mike H
Collected date/time: 01/22/25 11:45
Received date/time: 01/23/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2439562	1	01/25/25 15:15	01/25/25 15:15	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2440192	1	01/26/25 14:54	01/27/25 13:26	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2440345	1	01/27/25 09:52	01/27/25 16:36	MAP	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Sample Delivery Group (SDG) Narrative

The laboratory analysis was performed from an unpreserved, insufficiently or inadequately preserved sample.

Batch	Method	Lab Sample ID
WG2438770	350.1	L1819390-01, 02

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG2438797	9040C	L1819390-01, 02

Wet Chemistry by Method 1664B

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2440308	(MS) R4170729-4	Oil & Grease (Hexane Extr)

Wet Chemistry by Method 351.2

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2439991	(MS) R4170508-3, (MSD) R4170508-4	Kjeldahl Nitrogen, TKN

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2439991	(MS) R4170508-7, L1819390-01	Kjeldahl Nitrogen, TKN

Wet Chemistry by Method 353.2

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2440220	(MS) R4170807-3	Nitrate-Nitrite
WG2440220	(MSD) R4170807-4	Nitrate-Nitrite
WG2440220	(MS) R4170807-5	Nitrate-Nitrite
WG2440220	(MSD) R4170807-6	Nitrate-Nitrite

Wet Chemistry by Method 5210 B-2011

The associated batch QC was outside the lower control limits; associated data has a potential negative bias.

Batch	Lab Sample ID	Analytes
WG2438548	(LCS) R4171039-5, L1819390-01, 02	BOD

Wet Chemistry by Method 9012B

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2440054	(MS) R4170505-3, (MSD) R4170505-4	Cyanide

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2440054	(MSD) R4170505-4	Cyanide

Metals (ICP) by Method 6010C

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2439284	(MS) R4170450-6, (MSD) R4170450-7	Calcium, Magnesium and Sodium

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2440345	(MSD) R4170857-5	Silver, TCLP

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2440345	(MSD) R4170857-5	Silver, TCLP

Volatile Organic Compounds (GC/MS) by Method 8260C

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2441940	L1819390-01	1,1,2,2-Tetrachloroethane, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Acetone and trans-1,4-Dichloro-2-butene
WG2441940	L1819390-02	1,1,2,2-Tetrachloroethane, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Acetone and trans-1,4-Dichloro-2-butene

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2439824	(LCSD) R4170542-2, L1819390-01, 02	Benzoic acid

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.67	su

Calculated Results

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Total Nitrogen	70.5		0.100	1	01/27/2025 03:05	WG2440220

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	17.4		4.00	1	01/24/2025 17:59	WG2438666

Wet Chemistry by Method 1664B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5.00	1	01/27/2025 11:56	WG2440308

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	461		20.0	1	01/24/2025 11:12	WG2439048
Alkalinity,Bicarbonate	461		20.0	1	01/24/2025 11:12	WG2439048

Sample Narrative:

L1819390-01 WG2439048: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	68.6		0.634	20	01/23/2025 22:37	WG2438770

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	70.4	V	0.350	10	01/26/2025 23:01	WG2439991

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.100	1	01/27/2025 03:05	WG2440220

Wet Chemistry by Method 365.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Phosphorus,Total	1.64		0.0100	10	01/29/2025 18:16	WG2440633

Wet Chemistry by Method 5210 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
BOD	15.3	J-	3.33	1	01/28/2025 11:08	WG2438548

Wet Chemistry by Method 7196A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chromium,Hexavalent	ND		0.0100	1	01/23/2025 11:09	WG2438483

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	ND		0.0100	1	01/26/2025 22:34	WG2440054

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.96	T8	1	01/24/2025 11:00	WG2438797

Sample Narrative:

L1819390-01 WG2438797: 7.96 at 19.5C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	292		1.00	5	01/24/2025 00:29	WG2438625
Sulfate	18.1		5.00	1	01/24/2025 00:11	WG2438625

Mercury by Method 7470A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	01/27/2025 12:46	WG2439082

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.0100	1	01/26/2025 08:22	WG2439284
Arsenic	ND		0.0100	1	01/26/2025 08:22	WG2439284
Barium	0.108		0.00500	1	01/26/2025 08:22	WG2439284
Beryllium	ND		0.00200	1	01/26/2025 08:22	WG2439284
Cadmium	ND		0.00200	1	01/26/2025 08:22	WG2439284
Calcium	27.2		1.00	1	01/26/2025 08:22	WG2439284
Chromium	0.0144		0.0100	1	01/26/2025 08:22	WG2439284
Cobalt	ND		0.0100	1	01/26/2025 08:22	WG2439284
Copper	ND		0.0100	1	01/26/2025 08:22	WG2439284
Lead	ND		0.00500	1	01/26/2025 08:22	WG2439284
Magnesium	15.8		1.00	1	01/26/2025 08:22	WG2439284
Molybdenum	ND		0.0100	1	01/26/2025 08:22	WG2439284
Nickel	0.0374		0.0100	1	01/26/2025 08:22	WG2439284
Potassium	51.0		1.00	1	01/26/2025 08:22	WG2439284
Selenium	ND		0.0250	1	01/26/2025 08:22	WG2439284
Silver	ND		0.00600	1	01/26/2025 08:22	WG2439284
Sodium	219		1.00	1	01/26/2025 08:22	WG2439284
Thallium	ND		0.0200	1	01/26/2025 08:22	WG2439284
Vanadium	ND		0.0200	1	01/26/2025 08:22	WG2439284
Zinc	ND		0.0500	1	01/26/2025 08:22	WG2439284

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	01/30/2025 00:08	WG2441940
1,1,1-Trichloroethane	ND		1.00	1	01/30/2025 00:08	WG2441940
1,1,2,2-Tetrachloroethane	ND	C3	1.00	1	01/30/2025 00:08	WG2441940
1,1,2-Trichloroethane	ND		1.00	1	01/30/2025 00:08	WG2441940
1,1-Dichloroethane	ND		1.00	1	01/30/2025 00:08	WG2441940
1,1-Dichloroethene	ND		1.00	1	01/30/2025 00:08	WG2441940
1,2,3-Trichloropropane	ND		2.50	1	01/30/2025 00:08	WG2441940
1,2-Dibromo-3-Chloropropane	ND		2.50	1	01/30/2025 00:08	WG2441940
1,2-Dibromoethane	ND		1.00	1	01/30/2025 00:08	WG2441940
1,2-Dichloroethane	ND		1.00	1	01/30/2025 00:08	WG2441940
1,2-Dichloropropane	ND		1.00	1	01/30/2025 00:08	WG2441940
2-Butanone (MEK)	10.9	C3	10.0	1	01/30/2025 00:08	WG2441940
2-Chloroethyl vinyl ether	ND		50.0	1	01/30/2025 00:08	WG2441940
2-Hexanone	ND	C3	5.00	1	01/30/2025 00:08	WG2441940
4-Methyl-2-pentanone (MIBK)	ND	C3	5.00	1	01/30/2025 00:08	WG2441940
Acetone	ND	C3	25.0	1	01/30/2025 00:08	WG2441940
Acrylonitrile	ND		5.00	1	01/30/2025 00:08	WG2441940
Benzene	ND		1.00	1	01/30/2025 00:08	WG2441940
Bromochloromethane	ND		1.00	1	01/30/2025 00:08	WG2441940
Bromodichloromethane	ND		1.00	1	01/30/2025 00:08	WG2441940
Bromoform	ND		1.00	1	01/30/2025 00:08	WG2441940
Bromomethane	ND		2.50	1	01/30/2025 00:08	WG2441940
Carbon disulfide	ND		1.00	1	01/30/2025 00:08	WG2441940
Carbon tetrachloride	ND		1.00	1	01/30/2025 00:08	WG2441940
Chlorobenzene	ND		1.00	1	01/30/2025 00:08	WG2441940
Chloroethane	ND		2.50	1	01/30/2025 00:08	WG2441940
Chloroform	ND		1.00	1	01/30/2025 00:08	WG2441940
Chloromethane	ND		1.25	1	01/30/2025 00:08	WG2441940
Dibromochloromethane	ND		1.00	1	01/30/2025 00:08	WG2441940
Dibromomethane	ND		1.00	1	01/30/2025 00:08	WG2441940
Ethylbenzene	ND		1.00	1	01/30/2025 00:08	WG2441940
Iodomethane	ND		10.0	1	01/30/2025 00:08	WG2441940
Methylene Chloride	ND		2.50	1	01/30/2025 00:08	WG2441940
Styrene	ND		1.00	1	01/30/2025 00:08	WG2441940
Tetrachloroethene	ND		1.00	1	01/30/2025 00:08	WG2441940
Toluene	2.86		1.00	1	01/30/2025 00:08	WG2441940
Trichloroethene	ND		1.00	1	01/30/2025 00:08	WG2441940
Trichlorofluoromethane	ND		2.50	1	01/30/2025 00:08	WG2441940
Vinyl acetate	ND		5.00	1	01/30/2025 00:08	WG2441940
Vinyl chloride	ND		1.00	1	01/30/2025 00:08	WG2441940
Xylenes, Total	ND		2.00	1	01/30/2025 00:08	WG2441940
cis-1,2-Dichloroethene	ND		1.00	1	01/30/2025 00:08	WG2441940
cis-1,3-Dichloropropene	ND		1.00	1	01/30/2025 00:08	WG2441940
trans-1,2-Dichloroethene	ND		1.00	1	01/30/2025 00:08	WG2441940
trans-1,3-Dichloropropene	ND		1.00	1	01/30/2025 00:08	WG2441940
trans-1,4-Dichloro-2-butene	ND	C3	5.00	1	01/30/2025 00:08	WG2441940
(S) 4-Bromofluorobenzene	*105*			*77.0-126*	*01/30/2025 00:08*	WG2441940
(S) Toluene-d8	*97.5*			*80.0-120*	*01/30/2025 00:08*	WG2441940
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*	*01/30/2025 00:08*	WG2441940

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND		0.0100	1	01/27/2025 15:43	WG2439824
2,4,6-Trichlorophenol	ND		0.0100	1	01/27/2025 15:43	WG2439824
2,4-Dichlorophenol	ND		0.0100	1	01/27/2025 15:43	WG2439824
2,4-Dimethylphenol	ND		0.0100	1	01/27/2025 15:43	WG2439824
2,4-Dinitrophenol	ND		0.0100	1	01/27/2025 15:43	WG2439824
2-Chlorophenol	ND		0.0100	1	01/27/2025 15:43	WG2439824
2-Nitrophenol	ND		0.0100	1	01/27/2025 15:43	WG2439824
4,6-Dinitro-2-methylphenol	ND		0.0100	1	01/27/2025 15:43	WG2439824
4-Chloro-3-methylphenol	ND		0.0100	1	01/27/2025 15:43	WG2439824
4-Nitrophenol	ND		0.0100	1	01/27/2025 15:43	WG2439824
Benzoic acid	ND	J3	0.0500	1	01/27/2025 15:43	WG2439824
Pentachlorophenol	ND		0.0100	1	01/27/2025 15:43	WG2439824
(S) Phenol-d5	*19.1*			*10.0-120*	*01/27/2025 15:43*	WG2439824
(S) p-Terphenyl-d14	*45.3*			*10.0-128*	*01/27/2025 15:43*	WG2439824
(S) Nitrobenzene-d5	*47.5*			*10.0-127*	*01/27/2025 15:43*	WG2439824
(S) 2-Fluorophenol	*26.6*			*10.0-120*	*01/27/2025 15:43*	WG2439824
(S) 2-Fluorobiphenyl	*45.8*			*10.0-130*	*01/27/2025 15:43*	WG2439824
(S) 2,4,6-Tribromophenol	*52.0*			*10.0-155*	*01/27/2025 15:43*	WG2439824

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.57	su

Calculated Results

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Total Nitrogen	102		0.197	1	01/27/2025 03:07	WG2440220

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	4.53		4.00	1	01/24/2025 17:59	WG2438666

Wet Chemistry by Method 1664B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5.00	1	01/27/2025 11:56	WG2440308

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	360		20.0	1	01/24/2025 11:19	WG2439048
Alkalinity,Bicarbonate	360		20.0	1	01/24/2025 11:19	WG2439048

Sample Narrative:

L1819390-02 WG2439048: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	47.2		0.634	20	01/23/2025 22:39	WG2438770

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	60.1		0.350	10	01/26/2025 22:23	WG2439991

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	41.7		0.197	10	01/27/2025 03:07	WG2440220

Wet Chemistry by Method 365.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Phosphorus,Total	0.555		0.0100	5	02/02/2025 13:59	WG2444491

Wet Chemistry by Method 5210 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
BOD	4.44	J-	3.33	1	01/28/2025 11:11	WG2438548

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND		0.0100	1	01/23/2025 11:14	WG2438483

Wet Chemistry by Method 9012B

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.0100	2	01/26/2025 22:35	WG2440054

Sample Narrative:

L1819390-02 WG2440054: Dilution due to matrix.

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.00	T8	1	01/24/2025 11:00	WG2438797

Sample Narrative:

L1819390-02 WG2438797: 8 at 19.4C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chloride	346		1.00	5	01/24/2025 01:05	WG2438625
Sulfate	34.7		5.00	1	01/24/2025 00:47	WG2438625

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	01/27/2025 12:49	WG2439082

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.0100	1	01/26/2025 08:23	WG2439284
Arsenic	ND		0.0100	1	01/26/2025 08:23	WG2439284
Barium	0.160		0.00500	1	01/26/2025 08:23	WG2439284
Beryllium	ND		0.00200	1	01/26/2025 08:23	WG2439284
Cadmium	ND		0.00200	1	01/26/2025 08:23	WG2439284
Calcium	73.1		1.00	1	01/26/2025 08:23	WG2439284
Chromium	ND		0.0100	1	01/26/2025 08:23	WG2439284
Cobalt	ND		0.0100	1	01/26/2025 08:23	WG2439284
Copper	0.0131		0.0100	1	01/26/2025 08:23	WG2439284
Lead	ND		0.00500	1	01/26/2025 08:23	WG2439284
Magnesium	26.7		1.00	1	01/26/2025 08:23	WG2439284
Molybdenum	ND		0.0100	1	01/26/2025 08:23	WG2439284
Nickel	0.0378		0.0100	1	01/26/2025 08:23	WG2439284
Potassium	57.3		1.00	1	01/26/2025 08:23	WG2439284
Selenium	ND		0.0250	1	01/26/2025 08:23	WG2439284
Silver	ND		0.00600	1	01/26/2025 08:23	WG2439284
Sodium	249		1.00	1	01/26/2025 08:23	WG2439284
Thallium	ND		0.0200	1	01/26/2025 08:23	WG2439284
Vanadium	ND		0.0200	1	01/26/2025 08:23	WG2439284
Zinc	ND		0.0500	1	01/26/2025 08:23	WG2439284

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	01/30/2025 00:28	WG2441940
1,1,1-Trichloroethane	ND		1.00	1	01/30/2025 00:28	WG2441940
1,1,2,2-Tetrachloroethane	ND	C3	1.00	1	01/30/2025 00:28	WG2441940
1,1,2-Trichloroethane	ND		1.00	1	01/30/2025 00:28	WG2441940
1,1-Dichloroethane	ND		1.00	1	01/30/2025 00:28	WG2441940
1,1-Dichloroethene	ND		1.00	1	01/30/2025 00:28	WG2441940
1,2,3-Trichloropropane	ND		2.50	1	01/30/2025 00:28	WG2441940
1,2-Dibromo-3-Chloropropane	ND		2.50	1	01/30/2025 00:28	WG2441940
1,2-Dibromoethane	ND		1.00	1	01/30/2025 00:28	WG2441940
1,2-Dichloroethane	ND		1.00	1	01/30/2025 00:28	WG2441940
1,2-Dichloropropane	ND		1.00	1	01/30/2025 00:28	WG2441940
2-Butanone (MEK)	ND	C3	10.0	1	01/30/2025 00:28	WG2441940
2-Chloroethyl vinyl ether	ND		50.0	1	01/30/2025 00:28	WG2441940
2-Hexanone	ND	C3	5.00	1	01/30/2025 00:28	WG2441940
4-Methyl-2-pentanone (MIBK)	ND	C3	5.00	1	01/30/2025 00:28	WG2441940
Acetone	ND	C3	25.0	1	01/30/2025 00:28	WG2441940
Acrylonitrile	ND		5.00	1	01/30/2025 00:28	WG2441940
Benzene	ND		1.00	1	01/30/2025 00:28	WG2441940
Bromochloromethane	ND		1.00	1	01/30/2025 00:28	WG2441940
Bromodichloromethane	ND		1.00	1	01/30/2025 00:28	WG2441940
Bromoform	ND		1.00	1	01/30/2025 00:28	WG2441940
Bromomethane	ND		2.50	1	01/30/2025 00:28	WG2441940
Carbon disulfide	ND		1.00	1	01/30/2025 00:28	WG2441940
Carbon tetrachloride	ND		1.00	1	01/30/2025 00:28	WG2441940
Chlorobenzene	ND		1.00	1	01/30/2025 00:28	WG2441940
Chloroethane	ND		2.50	1	01/30/2025 00:28	WG2441940
Chloroform	ND		1.00	1	01/30/2025 00:28	WG2441940
Chloromethane	ND		1.25	1	01/30/2025 00:28	WG2441940
Dibromochloromethane	ND		1.00	1	01/30/2025 00:28	WG2441940
Dibromomethane	ND		1.00	1	01/30/2025 00:28	WG2441940
Ethylbenzene	ND		1.00	1	01/30/2025 00:28	WG2441940
Iodomethane	ND		10.0	1	01/30/2025 00:28	WG2441940
Methylene Chloride	ND		2.50	1	01/30/2025 00:28	WG2441940
Styrene	ND		1.00	1	01/30/2025 00:28	WG2441940
Tetrachloroethene	ND		1.00	1	01/30/2025 00:28	WG2441940
Toluene	ND		1.00	1	01/30/2025 00:28	WG2441940
Trichloroethene	ND		1.00	1	01/30/2025 00:28	WG2441940
Trichlorofluoromethane	ND		2.50	1	01/30/2025 00:28	WG2441940
Vinyl acetate	ND		5.00	1	01/30/2025 00:28	WG2441940
Vinyl chloride	ND		1.00	1	01/30/2025 00:28	WG2441940
Xylenes, Total	ND		2.00	1	01/30/2025 00:28	WG2441940
cis-1,2-Dichloroethene	ND		1.00	1	01/30/2025 00:28	WG2441940
cis-1,3-Dichloropropene	ND		1.00	1	01/30/2025 00:28	WG2441940
trans-1,2-Dichloroethene	ND		1.00	1	01/30/2025 00:28	WG2441940
trans-1,3-Dichloropropene	ND		1.00	1	01/30/2025 00:28	WG2441940
trans-1,4-Dichloro-2-butene	ND	C3	5.00	1	01/30/2025 00:28	WG2441940
(S) 4-Bromofluorobenzene	*106*			*77.0-126*	*01/30/2025 00:28*	WG2441940
(S) Toluene-d8	*98.3*			*80.0-120*	*01/30/2025 00:28*	WG2441940
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*	*01/30/2025 00:28*	WG2441940

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND		0.0100	1	01/25/2025 22:53	WG2439824
2,4,6-Trichlorophenol	ND		0.0100	1	01/25/2025 22:53	WG2439824
2,4-Dichlorophenol	ND		0.0100	1	01/25/2025 22:53	WG2439824
2,4-Dimethylphenol	ND		0.0100	1	01/25/2025 22:53	WG2439824
2,4-Dinitrophenol	ND		0.0100	1	01/25/2025 22:53	WG2439824
2-Chlorophenol	ND		0.0100	1	01/25/2025 22:53	WG2439824
2-Nitrophenol	ND		0.0100	1	01/25/2025 22:53	WG2439824
4,6-Dinitro-2-methylphenol	ND		0.0100	1	01/25/2025 22:53	WG2439824
4-Chloro-3-methylphenol	ND		0.0100	1	01/25/2025 22:53	WG2439824
4-Nitrophenol	ND		0.0100	1	01/25/2025 22:53	WG2439824
Benzoic acid	ND	J3	0.0500	1	01/25/2025 22:53	WG2439824
Pentachlorophenol	ND		0.0100	1	01/25/2025 22:53	WG2439824
(S) Phenol-d5	*18.7*			*10.0-120*	*01/25/2025 22:53*	WG2439824
(S) p-Terphenyl-d14	*58.5*			*10.0-128*	*01/25/2025 22:53*	WG2439824
(S) Nitrobenzene-d5	*51.0*			*10.0-127*	*01/25/2025 22:53*	WG2439824
(S) 2-Fluorophenol	*27.3*			*10.0-120*	*01/25/2025 22:53*	WG2439824
(S) 2-Fluorobiphenyl	*53.9*			*10.0-130*	*01/25/2025 22:53*	WG2439824
(S) 2,4,6-Tribromophenol	*64.8*			*10.0-155*	*01/25/2025 22:53*	WG2439824

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/25/2025 3:15:30 PM	WG2439562
Initial pH	N/A		1/25/2025 3:15:30 PM	WG2439562
Final pH	N/A		1/25/2025 3:15:30 PM	WG2439562

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	01/27/2025 13:49	WG2440192

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	01/27/2025 16:28	WG2440345
Barium, TCLP	ND		0.100	100	1	01/27/2025 16:28	WG2440345
Cadmium, TCLP	ND		0.100	1	1	01/27/2025 16:28	WG2440345
Chromium, TCLP	ND		0.100	5	1	01/27/2025 16:28	WG2440345
Lead, TCLP	ND		0.100	5	1	01/27/2025 16:28	WG2440345
Selenium, TCLP	ND		0.100	1	1	01/27/2025 16:28	WG2440345
Silver, TCLP	ND		0.100	5	1	01/27/2025 16:28	WG2440345

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		1/25/2025 3:15:30 PM	WG2439562
Initial pH	N/A		1/25/2025 3:15:30 PM	WG2439562
Final pH	N/A		1/25/2025 3:15:30 PM	WG2439562

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	01/27/2025 13:26	WG2440192

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	01/27/2025 16:36	WG2440345
Barium, TCLP	0.155		0.100	100	1	01/27/2025 16:36	WG2440345
Cadmium, TCLP	ND		0.100	1	1	01/27/2025 16:36	WG2440345
Chromium, TCLP	ND		0.100	5	1	01/27/2025 16:36	WG2440345
Lead, TCLP	ND		0.100	5	1	01/27/2025 16:36	WG2440345
Selenium, TCLP	ND		0.100	1	1	01/27/2025 16:36	WG2440345
Silver, TCLP	ND		0.100	5	1	01/27/2025 16:36	WG2440345

Method Blank (MB)

(MB) R4170409-1 01/24/25 17:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1819327-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1819327-01 01/24/25 17:59 • (DUP) R4170409-3 01/24/25 17:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	27.4	28.8	1	4.98		10

L1819373-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1819373-01 01/24/25 17:59 • (DUP) R4170409-4 01/24/25 17:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	1140	1110	1	2.85		10

Laboratory Control Sample (LCS)

(LCS) R4170409-2 01/24/25 17:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	802	104	85.0-115	

Method Blank (MB)

(MB) R4170729-1 01/27/25 11:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Oil & Grease (Hexane Extr)	ND		1.16	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4170729-2 01/27/25 11:56 • (LCSD) R4170729-3 01/27/25 11:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oil & Grease (Hexane Extr)	40.0	37.6	38.4	94.0	96.0	78.0-114			2.11	20

L1819330-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1819330-03 01/27/25 11:56 • (MS) R4170729-4 01/27/25 11:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Oil & Grease (Hexane Extr)	40.0	ND	23.5	58.8	1	78.0-114	J6

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4170196-2 01/24/25 10:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	3.93		2.71	20.0
Alkalinity,Bicarbonate	3.93		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1818718-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1818718-02 01/24/25 10:40 • (DUP) R4170196-3 01/24/25 10:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	2190	2180	1	0.577		20
Alkalinity,Bicarbonate	2190	2180	1	0.577		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5 HEADSPACE

L1819491-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1819491-01 01/24/25 14:01 • (DUP) R4170196-4 01/24/25 14:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	75.5	74.2	1	1.80		20
Alkalinity,Bicarbonate	75.5	74.2	1	1.80		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5 HEADSPACE

Laboratory Control Sample (LCS)

(LCS) R4170196-1 01/24/25 10:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	101	101	90.0-110	

Laboratory Control Sample (LCS)

(LCS) R4170196-1 01/24/25 10:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier

Sample Narrative:

LCS: Endpoint pH 4.5

QUALITY CONTROL SUMMARY

L1819390-01,02

Method Blank (MB)

(MB) R4169906-1 01/23/25 21:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1819368-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1819368-01 01/23/25 21:42 • (DUP) R4169906-3 01/23/25 21:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.325	0.310	1	4.72		10

L1819368-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1819368-02 01/23/25 21:48 • (DUP) R4169906-6 01/23/25 21:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4169906-2 01/23/25 21:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.51	100	90.0-110	

L1819368-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819368-01 01/23/25 21:42 • (MS) R4169906-4 01/23/25 21:45 • (MSD) R4169906-5 01/23/25 21:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.325	5.08	5.23	95.0	98.1	1	90.0-110			2.99	10

L1819368-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1819368-02 01/23/25 21:48 • (MS) R4169906-7 01/23/25 21:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.05	101	1	90.0-110	

Method Blank (MB)

(MB) R4170508-1 01/26/25 22:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	ND		0.0350	0.250

L1819310-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1819310-01 01/26/25 22:56 • (DUP) R4170508-5 01/26/25 22:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	54.4	52.2	10	4.13		20

L1819318-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1819318-01 01/26/25 22:58 • (DUP) R4170508-6 01/26/25 23:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	28.0	30.1	10	7.23		20

Laboratory Control Sample (LCS)

(LCS) R4170508-2 01/26/25 22:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	9.65	9.59	99.4	90.0-110	

L1819306-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819306-01 01/26/25 22:06 • (MS) R4170508-3 01/26/25 22:07 • (MSD) R4170508-4 01/26/25 22:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	5.00	0.478	7.36	7.37	138	138	1	90.0-110	J5	J5	0.136	20

L1819390-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1819390-01 01/26/25 23:01 • (MS) R4170508-7 01/26/25 23:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Kjeldahl Nitrogen, TKN	5.00	70.4	77.8	148	10	90.0-110	V

Method Blank (MB)

(MB) R4170807-1 01/27/25 02:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	ND		0.0197	0.100

Laboratory Control Sample (LCS)

(LCS) R4170807-2 01/27/25 02:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.59	104	90.0-110	

L1819374-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819374-06 01/27/25 02:30 • (MS) R4170807-3 01/27/25 02:32 • (MSD) R4170807-4 01/27/25 02:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	3.47	5.97	6.02	100	102	1	90.0-110	E	E	0.867	20

L1819374-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819374-07 01/27/25 02:36 • (MS) R4170807-5 01/27/25 02:39 • (MSD) R4170807-6 01/27/25 02:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	2.72	5.34	5.33	105	105	1	90.0-110	E	E	0.131	20

Method Blank (MB)

(MB) R4171551-1 01/29/25 16:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus,Total	0.00516		0.00100	0.00300

Laboratory Control Sample (LCS)

(LCS) R4171551-2 01/29/25 16:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	0.0970	0.0939	96.8	78.9-121	

Method Blank (MB)

(MB) R4172563-1 02/02/25 13:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus,Total	0.00301		0.00100	0.00300

Laboratory Control Sample (LCS)

(LCS) R4172563-2 02/02/25 13:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	0.0970	0.0860	88.7	78.9-121	

L1819390-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819390-02 02/02/25 13:59 • (MS) R4172563-3 02/02/25 14:00 • (MSD) R4172563-4 02/02/25 14:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	0.250	0.555	0.780	0.790	90.0	94.0	5	90.0-110			1.27	20

QUALITY CONTROL SUMMARY

L1819390-01,02

Method Blank (MB)

(MB) R4171039-1 01/28/25 08:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
BOD	ND		0.200	0.200

L1819368-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1819368-02 01/28/25 10:47 • (DUP) R4171039-3 01/28/25 10:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	ND	ND	1	0		30

L1819407-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1819407-01 01/28/25 11:15 • (DUP) R4171039-4 01/28/25 11:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	305	283	10	7.48		30

Laboratory Control Sample (LCS)

(LCS) R4171039-2 01/28/25 10:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	183	92.3	84.6-115	

Laboratory Control Sample (LCS)

(LCS) R4171039-5 01/28/25 11:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	164	83	84.6-115	J-

Method Blank (MB)

(MB) R4169653-1 01/23/25 11:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Hexavalent	ND		0.00300	0.0100

L1819390-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1819390-01 01/23/25 11:09 • (DUP) R4169653-3 01/23/25 11:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4169653-2 01/23/25 11:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Hexavalent	0.500	0.548	110	80.0-120	

L1819390-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819390-02 01/23/25 11:14 • (MS) R4169653-4 01/23/25 11:14 • (MSD) R4169653-5 01/23/25 11:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	0.500	ND	0.508	0.522	102	104	1	75.0-125			2.72	20

QUALITY CONTROL SUMMARY

L1819390-01,02

Method Blank (MB)

(MB) R4170505-1 01/26/25 22:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	ND		0.00180	0.00500

L1819318-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1819318-02 01/26/25 22:25 • (DUP) R4170505-5 01/26/25 22:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

L1819327-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1819327-01 01/26/25 22:28 • (DUP) R4170505-6 01/26/25 22:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4170505-2 01/26/25 22:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0991	99.1	87.1-120	

L1819310-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819310-02 01/26/25 22:18 • (MS) R4170505-3 01/26/25 22:19 • (MSD) R4170505-4 01/26/25 22:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0518	0.0724	51.8	72.4	1	90.0-110	J6	J3 J6	33.2	20

L1819335-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1819335-01 01/24/25 11:00 • (DUP) R4170023-2 01/24/25 11:00

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
pH	8.09	8.09	1	0.000		1

Sample Narrative:
OS: 8.09 at 20C
DUP: 8.09 at 19.8C

L1819485-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1819485-06 01/24/25 11:00 • (DUP) R4170023-3 01/24/25 11:00

Analyte	Original Result su	DUP Result su	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
pH	6.64	6.63	1	0.151		1

Sample Narrative:
OS: 6.64 at 19C
DUP: 6.63 at 19C

Laboratory Control Sample (LCS)

(LCS) R4170023-1 01/24/25 11:00

Analyte	Spike Amount su	LCS Result su	LCS Rec. %	Rec. Limits %	LCS Qualifier
pH	10.0	10.0	100	99.0-101	

Sample Narrative:
LCS: 10 at 19.1C

Method Blank (MB)

(MB) R4170587-1 01/23/25 21:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.582	J	0.0519	1.00
Sulfate	ND		0.0774	5.00

L1819191-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1819191-06 01/23/25 22:24 • (DUP) R4170587-3 01/23/25 22:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	ND	ND	1	0.000		15
Sulfate	ND	ND	1	0.000		15

L1819420-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1819420-01 01/24/25 01:23 • (DUP) R4170587-6 01/24/25 01:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	17.8	17.4	1	1.85		15
Sulfate	16.5	16.4	1	0.625		15

Laboratory Control Sample (LCS)

(LCS) R4170587-2 01/23/25 22:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.9	97.2	80.0-120	
Sulfate	40.0	39.7	99.3	80.0-120	

L1819191-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819191-06 01/23/25 22:24 • (MS) R4170587-4 01/23/25 23:00 • (MSD) R4170587-5 01/23/25 23:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	ND	39.8	39.8	99.6	99.5	1	80.0-120			0.100	15
Sulfate	40.0	ND	40.9	40.4	102	101	1	80.0-120			1.37	15

L1819420-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1819420-01 01/24/25 01:23 • (MS) R4170587-7 01/24/25 01:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	17.8	53.9	90.4	1	80.0-120	
Sulfate	40.0	16.5	53.6	92.6	1	80.0-120	

Method Blank (MB)

(MB) R4170735-1 01/27/25 12:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	ND		0.0000490	0.000200

Laboratory Control Sample (LCS)

(LCS) R4170735-2 01/27/25 12:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00301	100	80.0-120	

L1819507-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819507-07 01/27/25 12:20 • (MS) R4170735-4 01/27/25 12:25 • (MSD) R4170735-5 01/27/25 12:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00196	0.00486	0.00479	96.6	94.4	1	75.0-125			1.35	20

QUALITY CONTROL SUMMARY

L1819390-03,04

Method Blank (MB)

(MB) R4170756-1 01/27/25 13:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury, TCLP	ND		0.0000490	0.0100

Laboratory Control Sample (LCS)

(LCS) R4170756-2 01/27/25 13:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury, TCLP	0.0300	0.0310	103	80.0-120	

L1819390-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819390-04 01/27/25 13:26 • (MS) R4170756-4 01/27/25 13:31 • (MSD) R4170756-5 01/27/25 13:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury, TCLP	0.0300	ND	0.0307	0.0301	102	100	1	75.0-125			1.95	20

L1819658-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819658-01 01/27/25 13:36 • (MS) R4170756-6 01/27/25 13:39 • (MSD) R4170756-7 01/27/25 13:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury, TCLP	0.0300	ND	0.0309	0.0308	103	103	1	75.0-125			0.295	20

Method Blank (MB)

(MB) R4170450-1 01/26/25 07:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	ND		0.00750	0.0100
Arsenic	ND		0.00650	0.0100
Barium	ND		0.00170	0.00500
Beryllium	ND		0.000700	0.00200
Cadmium	ND	J	0.000700	0.00200
Calcium	ND		0.0463	1.00
Chromium	0.00355	J	0.00140	0.0100
Cobalt	ND		0.00230	0.0100
Copper	ND		0.00530	0.0100
Lead	ND		0.00190	0.00500
Magnesium	ND		0.0111	1.00
Molybdenum	ND		0.00160	0.00500
Nickel	ND		0.00490	0.0100
Potassium	ND		0.102	1.00
Selenium	ND		0.00740	0.0100
Silver	ND		0.00280	0.00500
Sodium	0.420		0.0985	1.00
Thallium	ND		0.00650	0.0100
Vanadium	ND		0.00240	0.0200
Zinc	ND		0.00590	0.0500

Laboratory Control Sample (LCS)

(LCS) R4170450-2 01/26/25 07:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	1.00	1.03	103	80.0-120	
Arsenic	1.00	1.03	103	80.0-120	
Barium	1.00	1.05	105	80.0-120	
Beryllium	1.00	1.01	101	80.0-120	
Cadmium	1.00	1.02	102	80.0-120	
Calcium	10.0	9.94	99.4	80.0-120	
Chromium	1.00	1.05	105	80.0-120	
Cobalt	1.00	0.992	99.2	80.0-120	
Copper	1.00	1.06	106	80.0-120	
Lead	1.00	1.03	103	80.0-120	
Magnesium	10.0	9.89	98.9	80.0-120	
Molybdenum	1.00	1.05	105	80.0-120	
Nickel	1.00	0.996	99.6	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4170450-2 01/26/25 07:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Potassium	10.0	10.2	102	80.0-120	
Selenium	1.00	1.02	102	80.0-120	
Silver	0.200	0.218	109	80.0-120	
Sodium	10.0	9.93	99.3	80.0-120	
Thallium	1.00	1.06	106	80.0-120	
Vanadium	1.00	0.994	99.4	80.0-120	
Zinc	1.00	1.04	104	80.0-120	

L1819374-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819374-01 01/26/25 07:53 • (MS) R4170450-4 01/26/25 07:56 • (MSD) R4170450-5 01/26/25 07:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	1.00	ND	0.983	1.00	98.3	100	1	75.0-125			1.71	20
Arsenic	1.00	0.0242	1.03	1.04	101	101	1	75.0-125			0.736	20
Barium	1.00	0.145	1.14	1.16	99.7	101	1	75.0-125			1.30	20
Beryllium	1.00	ND	0.989	0.987	98.9	98.7	1	75.0-125			0.229	20
Cadmium	1.00	ND	0.982	0.993	98.1	99.2	1	75.0-125			1.12	20
Calcium	10.0	77.8	86.7	86.8	89.0	89.4	1	75.0-125			0.0509	20
Chromium	1.00	ND	1.01	1.02	100	102	1	75.0-125			1.26	20
Cobalt	1.00	ND	0.970	0.990	97.0	99.0	1	75.0-125			2.00	20
Copper	1.00	ND	1.02	1.06	101	106	1	75.0-125			4.02	20
Lead	1.00	ND	1.00	1.02	100	102	1	75.0-125			1.62	20
Magnesium	10.0	14.1	23.5	23.4	94.3	93.6	1	75.0-125			0.325	20
Molybdenum	1.00	0.0601	1.06	1.08	100	102	1	75.0-125			1.47	20
Nickel	1.00	ND	0.974	0.994	97.4	99.4	1	75.0-125			1.95	20
Potassium	10.0	3.03	13.0	12.9	100	99.0	1	75.0-125			0.731	20
Selenium	1.00	ND	0.980	1.00	98.0	100	1	75.0-125			2.40	20
Silver	0.200	ND	0.210	0.214	105	107	1	75.0-125			1.99	20
Sodium	10.0	100	109	109	86.1	84.0	1	75.0-125			0.188	20
Thallium	1.00	ND	1.01	1.02	101	102	1	75.0-125			0.791	20
Vanadium	1.00	ND	0.977	0.975	97.7	97.5	1	75.0-125			0.115	20
Zinc	1.00	ND	1.01	1.03	101	103	1	75.0-125			2.23	20

L1819507-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819507-07 01/26/25 07:59 • (MS) R4170450-6 01/26/25 08:02 • (MSD) R4170450-7 01/26/25 08:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	1.00	ND	0.956	0.968	95.6	96.8	1	75.0-125			1.24	20
Arsenic	1.00	ND	0.997	1.00	99.7	100	1	75.0-125			0.217	20
Barium	1.00	0.0149	0.979	0.974	96.4	95.9	1	75.0-125			0.423	20
Beryllium	1.00	0.0376	0.968	0.972	93.1	93.4	1	75.0-125			0.369	20
Cadmium	1.00	0.00415	0.965	0.961	96.1	95.7	1	75.0-125			0.366	20
Calcium	10.0	700	697	698	0.000	0.000	1	75.0-125	V	V	0.103	20
Chromium	1.00	ND	0.971	0.967	96.7	96.3	1	75.0-125			0.432	20
Cobalt	1.00	0.0688	1.06	1.06	99.4	99.5	1	75.0-125			0.116	20
Copper	1.00	ND	0.976	0.978	97.1	97.3	1	75.0-125			0.181	20
Lead	1.00	ND	1.02	1.02	102	102	1	75.0-125			0.158	20
Magnesium	10.0	96.4	104	104	72.0	78.0	1	75.0-125	V		0.579	20
Molybdenum	1.00	ND	0.961	0.968	95.9	96.6	1	75.0-125			0.725	20
Nickel	1.00	0.0445	1.04	1.04	99.2	99.4	1	75.0-125			0.207	20
Potassium	10.0	49.9	58.8	59.2	89.7	93.1	1	75.0-125			0.576	20
Selenium	1.00	ND	0.982	0.995	98.2	99.5	1	75.0-125			1.29	20
Silver	0.200	ND	0.210	0.211	104	104	1	75.0-125			0.436	20
Sodium	10.0	638	635	638	0.000	0.000	1	75.0-125	V	V	0.471	20
Thallium	1.00	ND	0.994	1.00	99.4	100	1	75.0-125			0.701	20
Vanadium	1.00	ND	0.922	0.927	92.2	92.7	1	75.0-125			0.592	20
Zinc	1.00	0.510	1.44	1.45	93.1	93.7	1	75.0-125			0.392	20

Method Blank (MB)

(MB) R4170857-1 01/27/25 16:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic, TCLP	ND		0.00650	0.100
Barium, TCLP	0.00184		0.00170	0.100
Cadmium, TCLP	ND		0.0463	0.100
Chromium, TCLP	0.00216		0.00140	0.100
Lead, TCLP	0.0101		0.00190	0.100
Selenium, TCLP	0.0333	J	0.00740	0.100
Silver, TCLP	ND		0.00280	0.100

Laboratory Control Sample (LCS)

(LCS) R4170857-2 01/27/25 16:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic, TCLP	10.0	9.95	99.5	80.0-120	
Barium, TCLP	10.0	10.1	101	80.0-120	
Cadmium, TCLP	10.0	9.80	98.0	80.0-120	
Chromium, TCLP	10.0	9.62	96.2	80.0-120	
Lead, TCLP	10.0	9.62	96.2	80.0-120	
Selenium, TCLP	10.0	10.4	104	80.0-120	
Silver, TCLP	2.00	1.98	99.0	80.0-120	

L1819836-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1819836-01 01/27/25 16:08 • (MS) R4170857-4 01/27/25 16:14 • (MSD) R4170857-5 01/27/25 16:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, TCLP	10.0	ND	10.1	10.1	100	101	1	75.0-125			0.582	20
Barium, TCLP	10.0	1.49	11.5	11.6	100	101	1	75.0-125			0.800	20
Cadmium, TCLP	10.0	ND	9.91	9.96	99.1	99.6	1	75.0-125			0.518	20
Chromium, TCLP	10.0	ND	9.55	9.55	95.5	95.5	1	75.0-125			0.00525	20
Lead, TCLP	10.0	ND	9.62	9.71	96.2	97.1	1	75.0-125			0.937	20
Selenium, TCLP	10.0	ND	10.6	10.6	106	106	1	75.0-125			0.0133	20
Silver, TCLP	2.00	ND	2.00	14.2	100	708	1	75.0-125		J3 J5	150	20

L1820041-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1820041-01 01/27/25 16:19 • (MS) R4170857-6 01/27/25 16:22 • (MSD) R4170857-7 01/27/25 16:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, TCLP	10.0	ND	9.65	9.82	96.5	98.2	1	75.0-125			1.79	20
Barium, TCLP	10.0	ND	10.2	10.3	102	103	1	75.0-125			0.591	20
Cadmium, TCLP	10.0	ND	9.64	9.76	96.4	97.6	1	75.0-125			1.22	20
Chromium, TCLP	10.0	ND	9.67	9.71	96.7	97.1	1	75.0-125			0.431	20
Lead, TCLP	10.0	ND	9.47	9.62	94.7	96.2	1	75.0-125			1.51	20
Selenium, TCLP	10.0	ND	10.1	10.3	101	103	1	75.0-125			1.89	20
Silver, TCLP	2.00	0.274	1.96	1.99	84.2	85.9	1	75.0-125			1.69	20

Method Blank (MB)

(MB) R4171749-2 01/29/25 20:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.186	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Chloroethyl vinyl ether	ND		0.575	50.0
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	ND		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromochloromethane	ND		0.145	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromoform	ND		0.186	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	ND		0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	ND		0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00
Vinyl chloride	ND		0.118	0.500

Method Blank (MB)

(MB) R4171749-2 01/29/25 20:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Xylenes, Total	ND		0.316	1.50
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) Toluene-d8	*101*			*80.0-120*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4171749-1 01/29/25 18:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1,2-Tetrachloroethane	5.00	5.45	109	75.0-125	
1,1,1-Trichloroethane	5.00	5.78	116	73.0-124	
1,1,2,2-Tetrachloroethane	5.00	3.79	75.8	65.0-130	
1,1,2-Trichloroethane	5.00	4.71	94.2	80.0-120	
1,1-Dichloroethane	5.00	4.91	98.2	70.0-126	
1,1-Dichloroethene	5.00	4.87	97.4	71.0-124	
1,2,3-Trichloropropane	5.00	4.39	87.8	73.0-130	
1,2-Dibromo-3-Chloropropane	5.00	4.45	89.0	58.0-134	
1,2-Dibromoethane	5.00	4.72	94.4	80.0-122	
1,2-Dichloroethane	5.00	5.23	105	70.0-128	
1,2-Dichloropropane	5.00	4.38	87.6	77.0-125	
2-Butanone (MEK)	25.0	18.9	75.6	44.0-160	
2-Chloroethyl vinyl ether	25.0	21.7	86.8	51.0-160	J
2-Hexanone	25.0	18.6	74.4	67.0-149	
4-Methyl-2-pentanone (MIBK)	25.0	18.6	74.4	68.0-142	
Acetone	25.0	18.3	73.2	19.0-160	J
Acrylonitrile	25.0	20.9	83.6	55.0-149	
Benzene	5.00	4.73	94.6	70.0-123	
Bromochloromethane	5.00	5.55	111	76.0-122	
Bromodichloromethane	5.00	5.32	106	75.0-120	
Bromoform	5.00	5.24	105	68.0-132	
Bromomethane	5.00	4.95	99.0	10.0-160	
Carbon disulfide	5.00	4.98	99.6	61.0-128	
Carbon tetrachloride	5.00	5.62	112	68.0-126	

Laboratory Control Sample (LCS)

(LCS) R4171749-1 01/29/25 18:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chlorobenzene	5.00	5.13	103	80.0-121	
Chloroethane	5.00	5.47	109	47.0-150	
Chloroform	5.00	5.09	102	73.0-120	
Chloromethane	5.00	4.27	85.4	41.0-142	
Dibromochloromethane	5.00	5.22	104	77.0-125	
Dibromomethane	5.00	4.94	98.8	80.0-120	
Ethylbenzene	5.00	5.02	100	79.0-123	
Iodomethane	25.0	21.4	85.6	33.0-147	
Methylene Chloride	5.00	4.96	99.2	67.0-120	
Styrene	5.00	5.01	100	73.0-130	
Tetrachloroethene	5.00	5.82	116	72.0-132	
Toluene	5.00	4.92	98.4	79.0-120	
Trichloroethene	5.00	5.48	110	78.0-124	
Trichlorofluoromethane	5.00	5.98	120	59.0-147	
Vinyl acetate	25.0	24.7	98.8	11.0-160	
Vinyl chloride	5.00	4.54	90.8	67.0-131	
Xylenes, Total	15.0	15.5	103	79.0-123	
cis-1,2-Dichloroethene	5.00	5.17	103	73.0-120	
cis-1,3-Dichloropropene	5.00	4.78	95.6	80.0-123	
trans-1,2-Dichloroethene	5.00	5.29	106	73.0-120	
trans-1,3-Dichloropropene	5.00	4.84	96.8	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	3.78	75.6	33.0-144	J
(S) 4-Bromofluorobenzene			*103*	*77.0-126*	
(S) Toluene-d8			*98.6*	*80.0-120*	
(S) 1,2-Dichloroethane-d4			*108*	*70.0-130*	

Method Blank (MB)

(MB) R4170542-3 01/25/25 21:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
2,4,5-Trichlorophenol	ND		0.000236	0.0100
2,4,6-Trichlorophenol	ND		0.000100	0.0100
2,4-Dichlorophenol	ND		0.000102	0.0100
2,4-Dimethylphenol	ND		0.0000636	0.0100
2,4-Dinitrophenol	ND		0.00593	0.0100
2-Chlorophenol	ND		0.000133	0.0100
2-Nitrophenol	ND		0.000117	0.0100
4,6-Dinitro-2-methylphenol	ND		0.00112	0.0100
4-Chloro-3-methylphenol	ND		0.000131	0.0100
4-Nitrophenol	ND		0.000143	0.0100
Benzoic acid	ND		0.00170	0.0500
Pentachlorophenol	ND		0.000313	0.0100
(S) Phenol-d5	*18.4*			*10.0-120*
(S) p-Terphenyl-d14	*63.8*			*10.0-128*
(S) Nitrobenzene-d5	*46.9*			*10.0-127*
(S) 2-Fluorophenol	*24.7*			*10.0-120*
(S) 2-Fluorobiphenyl	*51.5*			*10.0-130*
(S) 2,4,6-Tribromophenol	*45.6*			*10.0-155*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4170542-1 01/25/25 20:24 • (LCSD) R4170542-2 01/25/25 20:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,4,5-Trichlorophenol	0.0500	0.0341	0.0363	68.2	72.6	44.0-120			6.25	22
2,4,6-Trichlorophenol	0.0500	0.0336	0.0350	67.2	70.0	42.0-120			4.08	23
2,4-Dichlorophenol	0.0500	0.0285	0.0282	57.0	56.4	36.0-120			1.06	26
2,4-Dimethylphenol	0.0500	0.0244	0.0239	48.8	47.8	33.0-120			2.07	26
2,4-Dinitrophenol	0.0500	0.0335	0.0368	67.0	73.6	10.0-120			9.39	39
2-Chlorophenol	0.0500	0.0252	0.0246	50.4	49.2	25.0-120			2.41	35
2-Nitrophenol	0.0500	0.0292	0.0293	58.4	58.6	31.0-120			0.342	29
4,6-Dinitro-2-methylphenol	0.0500	0.0334	0.0365	66.8	73.0	38.0-138			8.87	25
4-Chloro-3-methylphenol	0.0500	0.0254	0.0254	50.8	50.8	40.0-120			0.000	21
4-Nitrophenol	0.0500	0.0117	0.0127	23.4	25.4	10.0-120			8.20	33
Benzoic acid	0.100	0.0113	0.0227	11.3	22.7	10.0-120	J	J J3	67.1	40
Pentachlorophenol	0.0500	0.0223	0.0251	44.6	50.2	23.0-120			11.8	25
(S) Phenol-d5				*20.9*	*20.1*	*10.0-120*				
(S) p-Terphenyl-d14				*60.1*	*63.1*	*10.0-128*				
(S) Nitrobenzene-d5				*47.6*	*45.5*	*10.0-127*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4170542-1 01/25/25 20:24 • (LCSD) R4170542-2 01/25/25 20:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorophenol				*30.1*	*28.3*	*10.0-120*				
(S) 2-Fluorobiphenyl				*58.5*	*59.8*	*10.0-130*				
(S) 2,4,6-Tribromophenol				*67.5*	*70.5*	*10.0-155*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J-	The associated batch QC was outside the lower control limits; associated data has a potential negative bias.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to: **Aaron Rebmann**

Email To: **chris.kaiser@stantec.com;cory.anderson2@stan**

Project Description: **Qrtly WWTP-Leachate List 1(1,4,7,10)**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **763-479-5185**

Client Project # **500**

Lab Project # **WMCENIA-00003**

Collected by (print): **Mike Hamor**

Site/Facility ID # **IA02**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8270 100ml Amb NoPres	ALK,Cl,SO4, pH 125mlHDPE-NoPres	BODLL 1L-HDPE-NoPres	CN 250mlHDPEAmb-NaOH ↑	CR6 250mlHDPE-NoPres	Metals 250mlHDPE-HNO3 ↓	NH3,NO2NO3,PT-LL,TKN 250mlHDPE-H2SO4 ✓	OGHEX 1L-Cl-WT-HCl	TCLP Mtls 1L-Clr-NoPres	TSS 1L-HDPE NoPres	Remarks	Sample # (lab only)
LEACHATE POND #1 * RAW	Grab	GW		1/22/25	1110	15	X	X	X	X	X	X	X	X	X	X		-01
~~LEACHATE POND #2~~		GW				~~15~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		
LEACHATE POND #3 * RAW	Grab	GW		1/22/25	1145	15	X	X	X	X	X	X	X	X	X	X		-02
~~LEACHATE POND #4~~		GW				~~15~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1819390

Tab **G240**

Acctnum: **WMCENIA**
Template: **T237544**
Prelogin: **P1121612**
PM: **364 - T. Alan Harvill**
PB: **12/17/24 mv**
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
Mike Hamor	1/22/25	1500	FedEx	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 3d
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 1/23/25 Time: 845

If pre /Time

PH – 10BDH2631
TRC – 3327A333

Hold:

Condition: NCF / (OK)

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Report to:
Aaron Rebmann

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Qrtly WWTP-Leachate List 1(1,4,7,10)

City/State Collected:

Please Circle: PT MT CT ET

Phone: **763-479-5185**

Client Project # **500**

Lab Project # **WMCENIA-00003**

Collected by (print): Mike Hawn

Site/Facility ID # **IA02**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260LLAP9C 40mlAmb-HCl										Remarks	Sample # (lab only)
LEACHATE POND #1 * RAW	Grab	GW		1/22/25		15	X											-01
~~LEACHATE POND #2~~		GW				~~15~~	~~X~~											
LEACHATE POND #3 * RAW	Grab	GW		1/22/25		15	X											-02
~~LEACHATE POND #4~~		GW				~~15~~	~~X~~											

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Pond #1 temp 4.5°C cond. 2309 µmhos pH 7.67
Pond #3 temp 3.8°C cond. 2407 µmhos pH 7.57

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

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12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1819390

Table #

Acctnum: **WMCENIA**
Template: **T237544**
Prelogin: **P1121612**
PM: **364 - T. Alan Harvill**
PB: **12/17/24 mv**

Shipped Via: **FedEX Ground**

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	1/22/25	1500	Fed Ex
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
2 HCl / MeoH
TBR

Temp: °C Bottles Received: 30

Date: 1/23/25 Time: 845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

L#_____

Fed Ex tracking #	Gun ID	Temperature
4208 1335 4025	EDT-9	0.3+0.4=0.7
4208 1334 4506	(	0.9+0.4=1.3

L1816340

Name

Date

ANALYTICAL REPORT

May 19, 2025

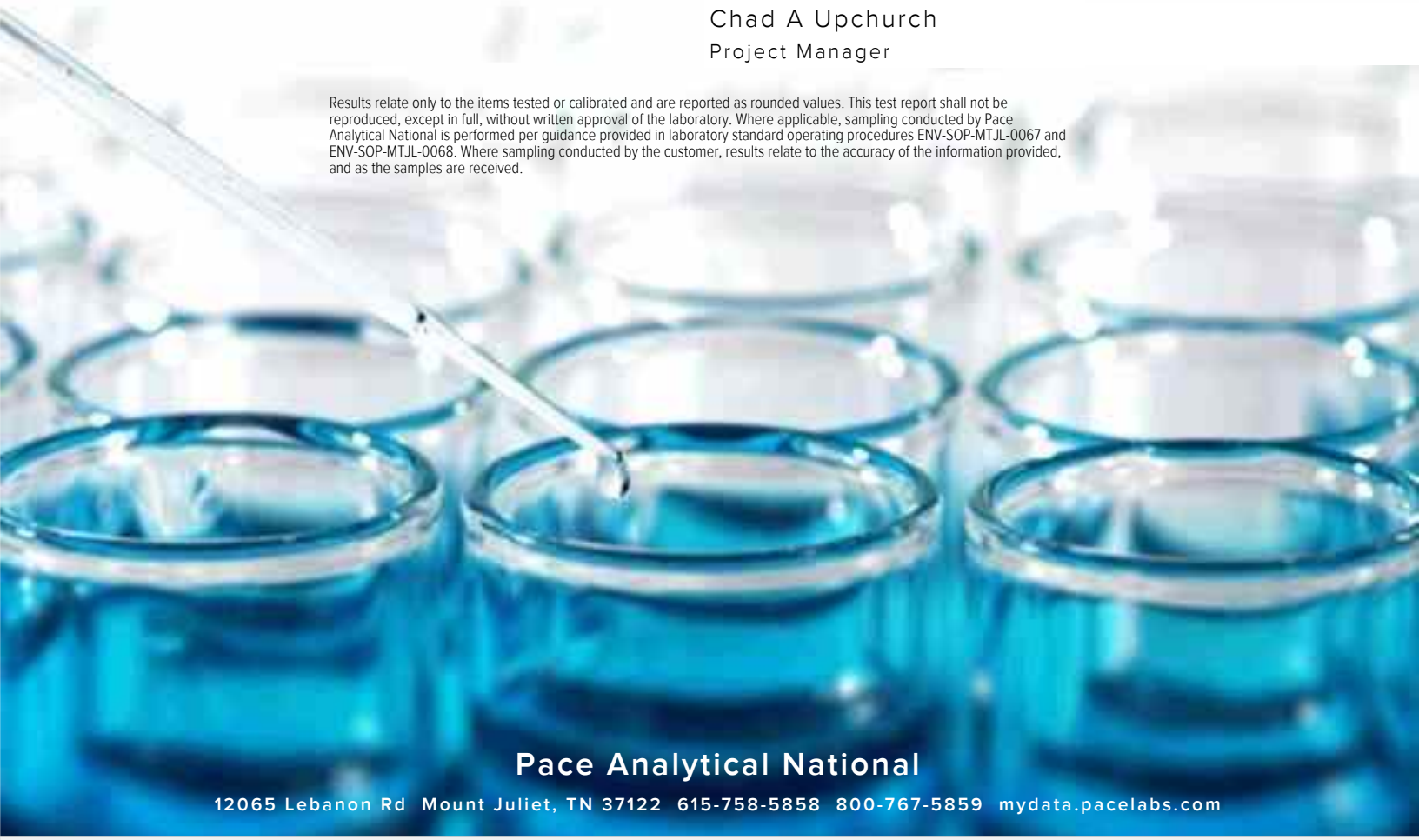
Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1852064
Samples Received:	04/26/2025
Project Number:	500
Description:	Qrtly WWTP-Leachate List 1(1,4,7,10)
Site:	IA02
Report To:	Aaron Rebmann 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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LEACHATE POND #1 L1852064-01

Collected by: Tim MacDonald | Collected date/time: 04/25/25 10:25 | Received date/time: 04/26/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2503024	1	05/05/25 21:28	05/05/25 21:28	JDW	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2501701	1	04/29/25 10:28	04/29/25 11:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2500537	1	04/26/25 16:00	04/26/25 16:00	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2501371	200	04/28/25 15:17	04/28/25 15:17	LAS	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2506835	100	05/05/25 07:39	05/05/25 21:28	JDW	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2503024	10	04/29/25 22:27	04/29/25 22:27	RTW	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2503159	50	04/30/25 10:35	05/01/25 18:08	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2500589	10	04/26/25 13:40	05/01/25 11:24	HMH	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2501585	1	04/28/25 10:08	04/28/25 10:08	DLS	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2505128	1	05/05/25 10:35	05/06/25 11:56	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2501556	1	04/28/25 14:15	04/28/25 14:15	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500498	5	04/30/25 01:58	04/30/25 01:58	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500498	50	04/30/25 02:11	04/30/25 02:11	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2504401	10	05/03/25 15:50	05/04/25 16:56	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2503348	1	05/03/25 10:10	05/03/25 13:12	RLS	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2503348	5	05/03/25 10:10	05/03/25 19:24	BAG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2507625	10	05/06/25 04:10	05/06/25 04:10	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2508381	10	05/06/25 17:12	05/06/25 17:12	JBE	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2502542	22.8	05/01/25 12:27	05/07/25 05:43	MBE	Mt. Juliet, TN
Subcontracted Analyses	WG2500704	1	05/15/25 00:00	05/15/25 00:00	-	Lenexa, KS 66219

LEACHATE POND #1 L1852064-02

Collected by: Tim MacDonald | Collected date/time: 04/25/25 10:25 | Received date/time: 04/26/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2500651	1	04/26/25 15:53	04/26/25 15:53	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2501214	1	04/27/25 14:40	04/28/25 11:32	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2501558	1	05/01/25 11:32	05/02/25 10:17	RLS	Mt. Juliet, TN

LEACHATE POND #2 L1852064-03

Collected by: Tim MacDonald | Collected date/time: 04/25/25 10:55 | Received date/time: 04/26/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2503024	1	05/05/25 21:29	05/05/25 21:29	JDW	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2501701	1	04/29/25 10:28	04/29/25 11:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2500537	1	04/26/25 16:04	04/26/25 16:04	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2501372	100	04/28/25 16:22	04/28/25 16:22	LAS	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2506835	100	05/05/25 07:39	05/05/25 21:29	JDW	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2503024	5	04/29/25 22:28	04/29/25 22:28	RTW	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2503159	100	04/30/25 10:35	05/01/25 18:37	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2500589	10	04/26/25 15:02	05/01/25 11:29	HMH	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2500575	1	04/26/25 14:44	04/26/25 14:44	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2505128	1	05/05/25 10:35	05/06/25 11:57	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2501556	1	04/28/25 14:15	04/28/25 14:15	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500498	5	04/30/25 02:24	04/30/25 02:24	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500498	50	04/30/25 02:37	04/30/25 02:37	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2504401	10	05/03/25 15:50	05/04/25 16:59	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2505147	1	05/02/25 23:02	05/03/25 10:21	RLS	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2505147	5	05/02/25 23:02	05/03/25 19:21	BAG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2507625	10	05/06/25 04:31	05/06/25 04:31	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2508381	10	05/06/25 17:33	05/06/25 17:33	JBE	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2502542	5.55	05/01/25 12:27	05/07/25 05:00	MBE	Mt. Juliet, TN
Subcontracted Analyses	WG2500704	1	05/15/25 00:00	05/15/25 00:00	-	Lenexa, KS 66219

LEACHATE POND #2 L1852064-04

Collected by: Tim MacDonald | Collected date/time: 04/25/25 10:55 | Received date/time: 04/26/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2500651	1	04/26/25 15:53	04/26/25 15:53	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2501214	1	04/27/25 14:40	04/28/25 11:34	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2501558	1	05/01/25 11:32	05/02/25 10:19	RLS	Mt. Juliet, TN

LEACHATE POND #3 L1852064-05

Collected by: Tim MacDonald | Collected date/time: 04/25/25 09:10 | Received date/time: 04/26/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2503024	1	05/05/25 21:30	05/05/25 21:30	JDW	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2501701	1	04/29/25 10:28	04/29/25 11:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2500537	1	04/26/25 16:08	04/26/25 16:08	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2501372	200	04/28/25 16:24	04/28/25 16:24	LAS	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2506835	100	05/05/25 07:39	05/05/25 21:30	JDW	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2503024	5	04/29/25 22:29	04/29/25 22:29	RTW	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2503159	50	04/30/25 10:35	05/01/25 18:39	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2500589	10	04/26/25 15:10	05/01/25 11:36	HMH	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2500575	1	04/26/25 14:45	04/26/25 14:45	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2505128	1	05/05/25 10:35	05/06/25 11:59	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2501556	1	04/28/25 14:15	04/28/25 14:15	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500498	5	04/30/25 02:49	04/30/25 02:49	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500498	50	04/30/25 03:02	04/30/25 03:02	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2504401	10	05/03/25 15:50	05/04/25 17:02	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2505147	1	05/02/25 23:02	05/03/25 10:23	RLS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2507625	10	05/06/25 04:53	05/06/25 04:53	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2508381	10	05/06/25 17:55	05/06/25 17:55	JBE	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2504850	1.16	05/02/25 08:43	05/05/25 20:35	JCH	Mt. Juliet, TN
Subcontracted Analyses	WG2500704	1	05/15/25 00:00	05/15/25 00:00	-	Lenexa, KS 66219

LEACHATE POND #3 L1852064-06

Collected by: Tim MacDonald | Collected date/time: 04/25/25 09:10 | Received date/time: 04/26/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2500651	1	04/26/25 15:53	04/26/25 15:53	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2501214	1	04/27/25 14:40	04/28/25 11:08	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2501558	1	05/01/25 11:32	05/02/25 10:20	RLS	Mt. Juliet, TN

LEACHATE POND #4 L1852064-07

Collected by: Tim MacDonald | Collected date/time: 04/25/25 09:40 | Received date/time: 04/26/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2503024	1	05/05/25 21:32	05/05/25 21:32	JDW	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2501701	1	04/29/25 10:28	04/29/25 11:52	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2500537	1	04/26/25 16:13	04/26/25 16:13	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2501372	200	04/28/25 16:25	04/28/25 16:25	LAS	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2506835	100	05/05/25 07:39	05/05/25 21:32	JDW	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2503024	5	04/29/25 22:31	04/29/25 22:31	RTW	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2503159	50	04/30/25 10:35	05/01/25 18:16	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2500589	10	04/26/25 15:16	05/01/25 11:42	HMH	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2500575	1	04/26/25 14:45	04/26/25 14:45	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2506338	1	05/04/25 11:48	05/05/25 12:29	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2501556	1	04/28/25 14:15	04/28/25 14:15	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500498	5	04/30/25 03:15	04/30/25 03:15	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2500498	50	04/30/25 03:28	04/30/25 03:28	DLH	Mt. Juliet, TN

LEACHATE POND #4 L1852064-07

Collected by: Tim MacDonald
Collected date/time: 04/25/25 09:40
Received date/time: 04/26/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Mercury by Method 7470A	WG2504401	10	05/03/25 15:50	05/04/25 17:04	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2505147	1	05/02/25 23:02	05/03/25 10:24	RLS	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2505147	5	05/02/25 23:02	05/03/25 19:23	BAG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2507625	10	05/06/25 05:15	05/06/25 05:15	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2508381	10	05/06/25 18:17	05/06/25 18:17	JBE	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2504850	1.41	05/02/25 08:43	05/05/25 20:56	HLA	Mt. Juliet, TN
Subcontracted Analyses	WG2500704	1	05/15/25 00:00	05/15/25 00:00	-	Lenexa, KS 66219

LEACHATE POND #4 L1852064-08

Collected by: Tim MacDonald
Collected date/time: 04/25/25 09:40
Received date/time: 04/26/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2500651	1	04/26/25 15:53	04/26/25 15:53	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2501214	1	04/27/25 14:40	04/28/25 11:37	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2501558	1	05/01/25 11:32	05/02/25 10:22	RLS	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory¿s PQL unless requested by the client.

L1852064-05 (CN): Dilution due to matrix impact during extraction procedure.

L1852064 -01, -03, -05, -07 contains subout data that is included after the chain of custody.

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Batch	Method	Lab Sample ID
WG2507625	8260C	L1852064-01, 03, 05, 07
WG2508381	8260C	L1852064-01, 03, 05, 07

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG2500575	7196A	L1852064-03, 05, 07
WG2501556	9040C	L1852064-01, 03, 05, 07
WG2501585	7196A	L1852064-01

Wet Chemistry by Method 351.2

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2506835	(MS) R4210084-3, (MSD) R4210084-4	Kjeldahl Nitrogen, TKN

Wet Chemistry by Method 365.1

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2503159	(MS) R4208494-5	Phosphorus,Total
WG2503159	(MSD) R4208494-6	Phosphorus,Total

Wet Chemistry by Method 365.1

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2503159	(MS) R4208494-5, (MSD) R4208494-6, L1852064-01	Phosphorus,Total

Wet Chemistry by Method 7196A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2501585	(MS) R4206128-4, (MSD) R4206128-5, L1852064-01	Chromium,Hexavalent

Wet Chemistry by Method 9012B

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2505128	(MS) R4210357-11, (MS) R4210357-13, (MSD) R4210357-12, (MSD) R4210357-14	Cyanide

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2505128	(MSD) R4210357-12	Cyanide

Wet Chemistry by Method 9056A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2500498	(MS) R4208274-2	Chloride and Sulfate

Mercury by Method 7470A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2504401	(MS) R4209795-4, (MSD) R4209795-5	Mercury

Metals (ICP) by Method 6010C

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2505147	(MS) R4209359-4, (MSD) R4209359-5	Calcium

Volatile Organic Compounds (GC/MS) by Method 8260C

The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.

Batch	Lab Sample ID	Analytes
WG2507625	L1852064-01	2-Butanone (MEK) and Acetone
WG2507625	L1852064-03	2-Butanone (MEK) and Acetone

Volatile Organic Compounds (GC/MS) by Method 8260C

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2507625	L1852064-01	2-Chloroethyl vinyl ether, Bromomethane, Iodomethane and trans-1,4-Dichloro-2-butene
WG2507625	L1852064-03	2-Chloroethyl vinyl ether, Bromomethane, Iodomethane and trans-1,4-Dichloro-2-butene
WG2507625	L1852064-05	2-Chloroethyl vinyl ether, Bromomethane, Iodomethane and trans-1,4-Dichloro-2-butene
WG2507625	L1852064-07	2-Chloroethyl vinyl ether, Bromomethane, Iodomethane and trans-1,4-Dichloro-2-butene

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2507625	(LCS) R4210466-1, L1852064-01, 03, 05, 07	Acetone

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2502542	L1852064-01	Pentachlorophenol
WG2502542	L1852064-03	Pentachlorophenol
WG2504850	L1852064-05	2,4-Dimethylphenol
WG2504850	L1852064-07	2,4-Dimethylphenol

Surrogate recovery cannot be used for control limit evaluation due to dilution.

Batch	Analyte	Lab Sample ID
WG2502542	2,4,6-Tribromophenol	L1852064-01
WG2502542	2-Fluorobiphenyl	L1852064-01
WG2502542	2-Fluorophenol	L1852064-01
WG2502542	Nitrobenzene-d5	L1852064-01
WG2502542	Phenol-d5	L1852064-01
WG2502542	p-Terphenyl-d14	L1852064-01

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2502542	(LCS) R4209729-1, L1852064-01, 03	Benzoic acid
WG2504850	(LCSD) R4209837-2, L1852064-05, 07	2-Chlorophenol and Pentachlorophenol

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2504850	(LCSD) R4209837-2, L1852064-05, 07	2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2-Chlorophenol, 2-Nitrophenol and Pentachlorophenol

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2502542	(MSD) R4209729-5	2,4-Dichlorophenol, 2,4-Dimethylphenol, 4-Chloro-3-methylphenol and Benzoic acid

Calculated Results

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Total Nitrogen	559		0.197	1	05/05/2025 21:28	WG2503024

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	93.6		4.00	1	04/29/2025 11:52	WG2501701

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	2880		20.0	1	04/26/2025 16:00	WG2500537
Alkalinity,Bicarbonate	2880		20.0	1	04/26/2025 16:00	WG2500537

Sample Narrative:

L1852064-01 WG2500537: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	487		6.34	200	04/28/2025 15:17	WG2501371

Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	559		3.50	100	05/05/2025 21:28	WG2506835

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.197	10	04/29/2025 22:27	WG2503024

Sample Narrative:

L1852064-01 WG2503024: Dilution due to matrix.

Wet Chemistry by Method 365.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	7.55	J5	0.0500	50	05/01/2025 18:08	WG2503159

Wet Chemistry by Method 5210 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	1260	K9	333	10	05/01/2025 11:24	WG2500589

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND	J6 T8	0.0100	1	04/28/2025 10:08	WG2501585

Wet Chemistry by Method 9012B

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.0100	1	05/06/2025 11:56	WG2505128

Sample Narrative:
L1852064-01 WG2505128: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.07	T8	1	04/28/2025 14:15	WG2501556

Sample Narrative:
L1852064-01 WG2501556: 8.07 at 21.6C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chloride	1310		2.60	50	04/30/2025 02:11	WG2500498
Sulfate	44.2		5.00	5	04/30/2025 01:58	WG2500498

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000490	10	05/04/2025 16:56	WG2504401

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.0100	1	05/03/2025 13:12	WG2503348
Arsenic	0.0391		0.0100	1	05/03/2025 13:12	WG2503348
Barium	0.828		0.00500	1	05/03/2025 13:12	WG2503348
Beryllium	ND		0.00200	1	05/03/2025 13:12	WG2503348
Cadmium	ND		0.00200	1	05/03/2025 13:12	WG2503348
Calcium	134		1.00	1	05/03/2025 13:12	WG2503348
Chromium	0.100		0.0100	1	05/03/2025 13:12	WG2503348
Cobalt	0.0263		0.0100	1	05/03/2025 13:12	WG2503348
Copper	ND		0.0100	1	05/03/2025 13:12	WG2503348
Lead	ND		0.00500	1	05/03/2025 13:12	WG2503348
Magnesium	89.3		1.00	1	05/03/2025 13:12	WG2503348
Molybdenum	ND		0.0100	1	05/03/2025 13:12	WG2503348
Nickel	0.175		0.0100	1	05/03/2025 13:12	WG2503348
Potassium	286		1.00	1	05/03/2025 13:12	WG2503348
Selenium	ND		0.0250	1	05/03/2025 13:12	WG2503348
Silver	ND		0.00600	1	05/03/2025 13:12	WG2503348
Sodium	1070		1.00	5	05/03/2025 19:24	WG2503348
Thallium	ND		0.0200	1	05/03/2025 13:12	WG2503348
Vanadium	0.0271		0.0200	1	05/03/2025 13:12	WG2503348
Zinc	0.129		0.0500	1	05/03/2025 13:12	WG2503348

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.20	10	05/06/2025 04:10	WG2507625
1,1,1-Trichloroethane	ND		1.00	10	05/06/2025 04:10	WG2507625
1,1,2,2-Tetrachloroethane	ND		1.30	10	05/06/2025 04:10	WG2507625
1,1,2-Trichloroethane	ND		1.86	10	05/06/2025 04:10	WG2507625
1,1-Dichloroethane	ND		1.14	10	05/06/2025 04:10	WG2507625
1,1-Dichloroethene	ND		1.88	10	05/06/2025 04:10	WG2507625
1,2,3-Trichloropropane	ND		2.50	10	05/06/2025 04:10	WG2507625
1,2-Dibromo-3-Chloropropane	ND		3.25	10	05/06/2025 04:10	WG2507625
1,2-Dibromoethane	ND		1.93	10	05/06/2025 04:10	WG2507625
1,2-Dichloroethane	ND		1.08	10	05/06/2025 04:10	WG2507625
1,2-Dichloropropane	ND		1.90	10	05/06/2025 04:10	WG2507625
2-Butanone (MEK)	1100	C5	12.8	10	05/06/2025 04:10	WG2507625
2-Chloroethyl vinyl ether	ND	C3	50.0	10	05/06/2025 04:10	WG2507625
2-Hexanone	ND		7.57	10	05/06/2025 04:10	WG2507625
4-Methyl-2-pentanone (MIBK)	ND		8.23	10	05/06/2025 04:10	WG2507625
Acetone	838	C5 J4	25.0	10	05/06/2025 04:10	WG2507625
Acrylonitrile	ND		8.73	10	05/06/2025 04:10	WG2507625
Benzene	ND		1.00	10	05/06/2025 04:10	WG2507625
Bromochloromethane	ND		1.45	10	05/06/2025 04:10	WG2507625
Bromodichloromethane	ND		1.00	10	05/06/2025 04:10	WG2507625
Bromoform	ND		1.86	10	05/06/2025 17:12	WG2508381
Bromomethane	ND	C3	2.50	10	05/06/2025 04:10	WG2507625
Carbon disulfide	ND		1.01	10	05/06/2025 04:10	WG2507625
Carbon tetrachloride	ND		1.59	10	05/06/2025 04:10	WG2507625
Chlorobenzene	ND		1.40	10	05/06/2025 04:10	WG2507625
Chloroethane	ND		2.50	10	05/06/2025 04:10	WG2507625
Chloroform	ND		1.00	10	05/06/2025 04:10	WG2507625
Chloromethane	ND		1.53	10	05/06/2025 04:10	WG2507625
Dibromochloromethane	ND		1.28	10	05/06/2025 04:10	WG2507625
Dibromomethane	ND		1.17	10	05/06/2025 04:10	WG2507625
Ethylbenzene	ND		1.58	10	05/06/2025 04:10	WG2507625
Iodomethane	ND	C3	10.0	10	05/06/2025 04:10	WG2507625
Methylene Chloride	ND		10.7	10	05/06/2025 04:10	WG2507625
Styrene	ND		1.17	10	05/06/2025 04:10	WG2507625
Tetrachloroethene	ND		1.99	10	05/06/2025 04:10	WG2507625
Toluene	4.62		4.12	10	05/06/2025 04:10	WG2507625
Trichloroethene	ND		1.53	10	05/06/2025 04:10	WG2507625
Trichlorofluoromethane	ND		2.50	10	05/06/2025 04:10	WG2507625
Vinyl acetate	ND		6.45	10	05/06/2025 04:10	WG2507625
Vinyl chloride	ND		1.18	10	05/06/2025 04:10	WG2507625
Xylenes, Total	ND		3.16	10	05/06/2025 04:10	WG2507625
cis-1,2-Dichloroethene	ND		1.00	10	05/06/2025 04:10	WG2507625
cis-1,3-Dichloropropene	ND		1.00	10	05/06/2025 04:10	WG2507625
trans-1,2-Dichloroethene	ND		1.52	10	05/06/2025 04:10	WG2507625
trans-1,3-Dichloropropene	ND		2.22	10	05/06/2025 04:10	WG2507625
trans-1,4-Dichloro-2-butene	ND	C3	5.00	10	05/06/2025 04:10	WG2507625
(S) 4-Bromofluorobenzene	*99.0*			*77.0-126*	*05/06/2025 04:10*	WG2507625
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*	*05/06/2025 17:12*	WG2508381
(S) Toluene-d8	*102*			*80.0-120*	*05/06/2025 04:10*	WG2507625
(S) Toluene-d8	*90.1*			*80.0-120*	*05/06/2025 17:12*	WG2508381
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*	*05/06/2025 04:10*	WG2507625
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*	*05/06/2025 17:12*	WG2508381

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND		0.0100	22.8	05/07/2025 05:43	WG2502542
2,4,6-Trichlorophenol	ND		0.0100	22.8	05/07/2025 05:43	WG2502542
2,4-Dichlorophenol	ND		0.0100	22.8	05/07/2025 05:43	WG2502542
2,4-Dimethylphenol	ND		0.0100	22.8	05/07/2025 05:43	WG2502542
2,4-Dinitrophenol	ND		0.135	22.8	05/07/2025 05:43	WG2502542
2-Chlorophenol	ND		0.0100	22.8	05/07/2025 05:43	WG2502542
2-Nitrophenol	ND		0.0100	22.8	05/07/2025 05:43	WG2502542
4,6-Dinitro-2-methylphenol	ND		0.0255	22.8	05/07/2025 05:43	WG2502542
4-Chloro-3-methylphenol	ND		0.0100	22.8	05/07/2025 05:43	WG2502542
4-Nitrophenol	ND		0.0100	22.8	05/07/2025 05:43	WG2502542
Benzoic acid	0.247	J4	0.0500	22.8	05/07/2025 05:43	WG2502542
Pentachlorophenol	ND	C3	0.0100	22.8	05/07/2025 05:43	WG2502542
(S) Phenol-d5	*79.7*	J7		*10.0-120*	*05/07/2025 05:43*	WG2502542
(S) p-Terphenyl-d14	*84.9*	J7		*10.0-128*	*05/07/2025 05:43*	WG2502542
(S) Nitrobenzene-d5	*69.3*	J7		*10.0-127*	*05/07/2025 05:43*	WG2502542
(S) 2-Fluorophenol	*41.5*	J7		*10.0-120*	*05/07/2025 05:43*	WG2502542
(S) 2-Fluorobiphenyl	*75.0*	J7		*10.0-130*	*05/07/2025 05:43*	WG2502542
(S) 2,4,6-Tribromophenol	*92.5*	J7		*10.0-155*	*05/07/2025 05:43*	WG2502542

Sample Narrative:

L1852064-01 WG2502542: Dilution due to matrix.

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		4/26/2025 3:53:00 PM	WG2500651
Initial pH	N/A		4/26/2025 3:53:00 PM	WG2500651
Final pH	N/A		4/26/2025 3:53:00 PM	WG2500651

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	04/28/2025 11:32	WG2501214

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	05/02/2025 10:17	WG2501558
Barium, TCLP	0.694		0.100	100	1	05/02/2025 10:17	WG2501558
Cadmium, TCLP	ND		0.100	1	1	05/02/2025 10:17	WG2501558
Chromium, TCLP	0.119		0.100	5	1	05/02/2025 10:17	WG2501558
Lead, TCLP	ND		0.100	5	1	05/02/2025 10:17	WG2501558
Selenium, TCLP	ND		0.100	1	1	05/02/2025 10:17	WG2501558
Silver, TCLP	ND		0.100	5	1	05/02/2025 10:17	WG2501558

Calculated Results

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Total Nitrogen	998		0.100	1	05/05/2025 21:29	WG2503024

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	223		5.83	1	04/29/2025 11:52	WG2501701

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	4240		20.0	1	04/26/2025 16:04	WG2500537
Alkalinity,Bicarbonate	4240		20.0	1	04/26/2025 16:04	WG2500537

Sample Narrative:

L1852064-03 WG2500537: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	792		3.17	100	04/28/2025 16:22	WG2501372

Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	998		3.50	100	05/05/2025 21:29	WG2506835

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.100	5	04/29/2025 22:28	WG2503024

Sample Narrative:

L1852064-03 WG2503024: Dilution due to matrix.

Wet Chemistry by Method 365.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	9.76		0.100	100	05/01/2025 18:37	WG2503159

Wet Chemistry by Method 5210 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	1810		333	10	05/01/2025 11:29	WG2500589

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND	T8	0.0100	1	04/26/2025 14:44	WG2500575

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	ND		0.0100	1	05/06/2025 11:57	WG2505128

Sample Narrative:

L1852064-03 WG2505128: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	7.92	T8	1	04/28/2025 14:15	WG2501556

Sample Narrative:

L1852064-03 WG2501556: 7.92 at 21.6C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1770		2.60	50	04/30/2025 02:37	WG2500498
Sulfate	59.1		5.00	5	04/30/2025 02:24	WG2500498

Mercury by Method 7470A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000490	10	05/04/2025 16:59	WG2504401

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	0.0136		0.0100	1	05/03/2025 10:21	WG2505147
Arsenic	0.0561		0.0100	1	05/03/2025 10:21	WG2505147
Barium	1.28		0.00500	1	05/03/2025 10:21	WG2505147
Beryllium	ND		0.00200	1	05/03/2025 10:21	WG2505147
Cadmium	ND		0.00200	1	05/03/2025 10:21	WG2505147
Calcium	246		1.00	1	05/03/2025 10:21	WG2505147
Chromium	0.136		0.0100	1	05/03/2025 10:21	WG2505147
Cobalt	0.0389		0.0100	1	05/03/2025 10:21	WG2505147
Copper	ND		0.0100	1	05/03/2025 10:21	WG2505147
Lead	0.0125		0.00500	1	05/03/2025 10:21	WG2505147
Magnesium	132		1.00	1	05/03/2025 10:21	WG2505147
Molybdenum	ND		0.0100	1	05/03/2025 10:21	WG2505147
Nickel	0.262		0.0100	1	05/03/2025 10:21	WG2505147
Potassium	413		1.00	1	05/03/2025 10:21	WG2505147
Selenium	ND		0.0250	1	05/03/2025 10:21	WG2505147
Silver	ND		0.00600	1	05/03/2025 10:21	WG2505147
Sodium	1480		1.00	5	05/03/2025 19:21	WG2505147
Thallium	ND		0.0200	1	05/03/2025 10:21	WG2505147
Vanadium	0.0436		0.0200	1	05/03/2025 10:21	WG2505147
Zinc	0.297		0.0500	1	05/03/2025 10:21	WG2505147

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.20	10	05/06/2025 04:31	WG2507625
1,1,1-Trichloroethane	ND		1.00	10	05/06/2025 04:31	WG2507625
1,1,2,2-Tetrachloroethane	ND		1.30	10	05/06/2025 04:31	WG2507625
1,1,2-Trichloroethane	ND		1.86	10	05/06/2025 04:31	WG2507625
1,1-Dichloroethane	ND		1.14	10	05/06/2025 04:31	WG2507625
1,1-Dichloroethene	ND		1.88	10	05/06/2025 04:31	WG2507625
1,2,3-Trichloropropane	ND		2.50	10	05/06/2025 04:31	WG2507625
1,2-Dibromo-3-Chloropropane	ND		3.25	10	05/06/2025 04:31	WG2507625
1,2-Dibromoethane	ND		1.93	10	05/06/2025 04:31	WG2507625
1,2-Dichloroethane	ND		1.08	10	05/06/2025 04:31	WG2507625
1,2-Dichloropropane	ND		1.90	10	05/06/2025 04:31	WG2507625
2-Butanone (MEK)	2740	C5	12.8	10	05/06/2025 04:31	WG2507625
2-Chloroethyl vinyl ether	ND	C3	50.0	10	05/06/2025 04:31	WG2507625
2-Hexanone	ND		7.57	10	05/06/2025 04:31	WG2507625
4-Methyl-2-pentanone (MIBK)	ND		8.23	10	05/06/2025 04:31	WG2507625
Acetone	1910	C5 J4	25.0	10	05/06/2025 04:31	WG2507625
Acrylonitrile	ND		8.73	10	05/06/2025 04:31	WG2507625
Benzene	ND		1.00	10	05/06/2025 04:31	WG2507625
Bromochloromethane	ND		1.45	10	05/06/2025 04:31	WG2507625
Bromodichloromethane	ND		1.00	10	05/06/2025 04:31	WG2507625
Bromoform	ND		1.86	10	05/06/2025 17:33	WG2508381
Bromomethane	ND	C3	2.50	10	05/06/2025 04:31	WG2507625
Carbon disulfide	ND		1.01	10	05/06/2025 04:31	WG2507625
Carbon tetrachloride	ND		1.59	10	05/06/2025 04:31	WG2507625
Chlorobenzene	ND		1.40	10	05/06/2025 04:31	WG2507625
Chloroethane	ND		2.50	10	05/06/2025 04:31	WG2507625
Chloroform	ND		1.00	10	05/06/2025 04:31	WG2507625
Chloromethane	ND		1.53	10	05/06/2025 04:31	WG2507625
Dibromochloromethane	ND		1.28	10	05/06/2025 04:31	WG2507625
Dibromomethane	ND		1.17	10	05/06/2025 04:31	WG2507625
Ethylbenzene	ND		1.58	10	05/06/2025 04:31	WG2507625
Iodomethane	ND	C3	10.0	10	05/06/2025 04:31	WG2507625
Methylene Chloride	ND		10.7	10	05/06/2025 04:31	WG2507625
Styrene	ND		1.17	10	05/06/2025 04:31	WG2507625
Tetrachloroethene	ND		1.99	10	05/06/2025 04:31	WG2507625
Toluene	18.2		4.12	10	05/06/2025 04:31	WG2507625
Trichloroethene	ND		1.53	10	05/06/2025 04:31	WG2507625
Trichlorofluoromethane	ND		2.50	10	05/06/2025 04:31	WG2507625
Vinyl acetate	ND		6.45	10	05/06/2025 04:31	WG2507625
Vinyl chloride	ND		1.18	10	05/06/2025 04:31	WG2507625
Xylenes, Total	5.64		3.16	10	05/06/2025 04:31	WG2507625
cis-1,2-Dichloroethene	ND		1.00	10	05/06/2025 04:31	WG2507625
cis-1,3-Dichloropropene	ND		1.00	10	05/06/2025 04:31	WG2507625
trans-1,2-Dichloroethene	ND		1.52	10	05/06/2025 04:31	WG2507625
trans-1,3-Dichloropropene	ND		2.22	10	05/06/2025 04:31	WG2507625
trans-1,4-Dichloro-2-butene	ND	C3	5.00	10	05/06/2025 04:31	WG2507625
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*	*05/06/2025 04:31*	WG2507625
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*	*05/06/2025 17:33*	WG2508381
(S) Toluene-d8	*103*			*80.0-120*	*05/06/2025 04:31*	WG2507625
(S) Toluene-d8	*88.1*			*80.0-120*	*05/06/2025 17:33*	WG2508381
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*	*05/06/2025 04:31*	WG2507625
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*	*05/06/2025 17:33*	WG2508381

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND		0.0100	5.55	05/07/2025 05:00	WG2502542
2,4,6-Trichlorophenol	ND		0.0100	5.55	05/07/2025 05:00	WG2502542
2,4-Dichlorophenol	ND		0.0100	5.55	05/07/2025 05:00	WG2502542
2,4-Dimethylphenol	ND		0.0100	5.55	05/07/2025 05:00	WG2502542
2,4-Dinitrophenol	ND		0.0329	5.55	05/07/2025 05:00	WG2502542
2-Chlorophenol	ND		0.0100	5.55	05/07/2025 05:00	WG2502542
2-Nitrophenol	ND		0.0100	5.55	05/07/2025 05:00	WG2502542
4,6-Dinitro-2-methylphenol	ND		0.0100	5.55	05/07/2025 05:00	WG2502542
4-Chloro-3-methylphenol	ND		0.0100	5.55	05/07/2025 05:00	WG2502542
4-Nitrophenol	ND		0.0100	5.55	05/07/2025 05:00	WG2502542
Benzoic acid	ND	J4	0.0500	5.55	05/07/2025 05:00	WG2502542
Pentachlorophenol	ND	C3	0.0100	5.55	05/07/2025 05:00	WG2502542
(S) Phenol-d5	*47.7*			*10.0-120*	*05/07/2025 05:00*	WG2502542
(S) p-Terphenyl-d14	*46.2*			*10.0-128*	*05/07/2025 05:00*	WG2502542
(S) Nitrobenzene-d5	*72.0*			*10.0-127*	*05/07/2025 05:00*	WG2502542
(S) 2-Fluorophenol	*42.0*			*10.0-120*	*05/07/2025 05:00*	WG2502542
(S) 2-Fluorobiphenyl	*57.9*			*10.0-130*	*05/07/2025 05:00*	WG2502542
(S) 2,4,6-Tribromophenol	*80.6*			*10.0-155*	*05/07/2025 05:00*	WG2502542

Sample Narrative:

L1852064-03 WG2502542: Dilution due to matrix.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		4/26/2025 3:53:00 PM	WG2500651
Initial pH	N/A		4/26/2025 3:53:00 PM	WG2500651
Final pH	N/A		4/26/2025 3:53:00 PM	WG2500651

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	04/28/2025 11:34	WG2501214

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	05/02/2025 10:19	WG2501558
Barium, TCLP	0.539		0.100	100	1	05/02/2025 10:19	WG2501558
Cadmium, TCLP	ND		0.100	1	1	05/02/2025 10:19	WG2501558
Chromium, TCLP	0.142		0.100	5	1	05/02/2025 10:19	WG2501558
Lead, TCLP	ND		0.100	5	1	05/02/2025 10:19	WG2501558
Selenium, TCLP	ND		0.100	1	1	05/02/2025 10:19	WG2501558
Silver, TCLP	ND		0.100	5	1	05/02/2025 10:19	WG2501558

Calculated Results

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Total Nitrogen	235		0.100	1	05/05/2025 21:30	WG2503024

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	20.0		4.00	1	04/29/2025 11:52	WG2501701

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	1680		20.0	1	04/26/2025 16:08	WG2500537
Alkalinity,Bicarbonate	1600		20.0	1	04/26/2025 16:08	WG2500537

Sample Narrative:

L1852064-05 WG2500537: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	215		6.34	200	04/28/2025 16:24	WG2501372

Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	235		3.50	100	05/05/2025 21:30	WG2506835

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.100	5	04/29/2025 22:29	WG2503024

Sample Narrative:

L1852064-05 WG2503024: Dilution due to matrix.

Wet Chemistry by Method 365.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	5.75		0.0500	50	05/01/2025 18:39	WG2503159

Wet Chemistry by Method 5210 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	ND		33.3	10	05/01/2025 11:36	WG2500589

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND	T8	0.0100	1	04/26/2025 14:45	WG2500575

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	ND		0.0100	1	05/06/2025 11:59	WG2505128

Sample Narrative:

L1852064-05 WG2505128: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	8.31	T8	1	04/28/2025 14:15	WG2501556

Sample Narrative:

L1852064-05 WG2501556: 8.31 at 21.8C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1180		2.60	50	04/30/2025 03:02	WG2500498
Sulfate	9.01		5.00	5	04/30/2025 02:49	WG2500498

Sample Narrative:

L1852064-05 WG2500498: Dilution due to matrix impact on instrumentation at lower dilution

Mercury by Method 7470A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000490	10	05/04/2025 17:02	WG2504401

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.0100	1	05/03/2025 10:23	WG2505147
Arsenic	0.0181		0.0100	1	05/03/2025 10:23	WG2505147
Barium	0.354		0.00500	1	05/03/2025 10:23	WG2505147
Beryllium	ND		0.00200	1	05/03/2025 10:23	WG2505147
Cadmium	ND		0.00200	1	05/03/2025 10:23	WG2505147
Calcium	37.2		1.00	1	05/03/2025 10:23	WG2505147
Chromium	0.0507		0.0100	1	05/03/2025 10:23	WG2505147
Cobalt	0.0228		0.0100	1	05/03/2025 10:23	WG2505147
Copper	0.0131		0.0100	1	05/03/2025 10:23	WG2505147
Lead	ND		0.00500	1	05/03/2025 10:23	WG2505147
Magnesium	62.8		1.00	1	05/03/2025 10:23	WG2505147
Molybdenum	ND		0.0100	1	05/03/2025 10:23	WG2505147
Nickel	0.124		0.0100	1	05/03/2025 10:23	WG2505147
Potassium	226		1.00	1	05/03/2025 10:23	WG2505147
Selenium	ND		0.0250	1	05/03/2025 10:23	WG2505147
Silver	ND		0.00600	1	05/03/2025 10:23	WG2505147
Sodium	873		1.00	1	05/03/2025 10:23	WG2505147
Thallium	ND		0.0200	1	05/03/2025 10:23	WG2505147
Vanadium	ND		0.0200	1	05/03/2025 10:23	WG2505147
Zinc	ND		0.0500	1	05/03/2025 10:23	WG2505147

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.20	10	05/06/2025 04:53	WG2507625
1,1,1-Trichloroethane	ND		1.00	10	05/06/2025 04:53	WG2507625
1,1,2,2-Tetrachloroethane	ND		1.30	10	05/06/2025 04:53	WG2507625
1,1,2-Trichloroethane	ND		1.86	10	05/06/2025 04:53	WG2507625
1,1-Dichloroethane	ND		1.14	10	05/06/2025 04:53	WG2507625
1,1-Dichloroethene	ND		1.88	10	05/06/2025 04:53	WG2507625
1,2,3-Trichloropropane	ND		2.50	10	05/06/2025 04:53	WG2507625
1,2-Dibromo-3-Chloropropane	ND		3.25	10	05/06/2025 04:53	WG2507625
1,2-Dibromoethane	ND		1.93	10	05/06/2025 04:53	WG2507625
1,2-Dichloroethane	ND		1.08	10	05/06/2025 04:53	WG2507625
1,2-Dichloropropane	ND		1.90	10	05/06/2025 04:53	WG2507625
2-Butanone (MEK)	ND		12.8	10	05/06/2025 04:53	WG2507625
2-Chloroethyl vinyl ether	ND	C3	50.0	10	05/06/2025 04:53	WG2507625
2-Hexanone	ND		7.57	10	05/06/2025 04:53	WG2507625
4-Methyl-2-pentanone (MIBK)	ND		8.23	10	05/06/2025 04:53	WG2507625
Acetone	ND	J4	25.0	10	05/06/2025 04:53	WG2507625
Acrylonitrile	ND		8.73	10	05/06/2025 04:53	WG2507625
Benzene	ND		1.00	10	05/06/2025 04:53	WG2507625
Bromochloromethane	ND		1.45	10	05/06/2025 04:53	WG2507625
Bromodichloromethane	ND		1.00	10	05/06/2025 04:53	WG2507625
Bromoform	ND		1.86	10	05/06/2025 17:55	WG2508381
Bromomethane	ND	C3	2.50	10	05/06/2025 04:53	WG2507625
Carbon disulfide	ND		1.01	10	05/06/2025 04:53	WG2507625
Carbon tetrachloride	ND		1.59	10	05/06/2025 04:53	WG2507625
Chlorobenzene	ND		1.40	10	05/06/2025 04:53	WG2507625
Chloroethane	ND		2.50	10	05/06/2025 04:53	WG2507625
Chloroform	ND		1.00	10	05/06/2025 04:53	WG2507625
Chloromethane	ND		1.53	10	05/06/2025 04:53	WG2507625
Dibromochloromethane	ND		1.28	10	05/06/2025 04:53	WG2507625
Dibromomethane	ND		1.17	10	05/06/2025 04:53	WG2507625
Ethylbenzene	ND		1.58	10	05/06/2025 04:53	WG2507625
Iodomethane	ND	C3	10.0	10	05/06/2025 04:53	WG2507625
Methylene Chloride	ND		10.7	10	05/06/2025 04:53	WG2507625
Styrene	ND		1.17	10	05/06/2025 04:53	WG2507625
Tetrachloroethene	ND		1.99	10	05/06/2025 04:53	WG2507625
Toluene	ND		4.12	10	05/06/2025 04:53	WG2507625
Trichloroethene	ND		1.53	10	05/06/2025 04:53	WG2507625
Trichlorofluoromethane	ND		2.50	10	05/06/2025 04:53	WG2507625
Vinyl acetate	ND		6.45	10	05/06/2025 04:53	WG2507625
Vinyl chloride	ND		1.18	10	05/06/2025 04:53	WG2507625
Xylenes, Total	ND		3.16	10	05/06/2025 04:53	WG2507625
cis-1,2-Dichloroethene	ND		1.00	10	05/06/2025 04:53	WG2507625
cis-1,3-Dichloropropene	ND		1.00	10	05/06/2025 04:53	WG2507625
trans-1,2-Dichloroethene	ND		1.52	10	05/06/2025 04:53	WG2507625
trans-1,3-Dichloropropene	ND		2.22	10	05/06/2025 04:53	WG2507625
trans-1,4-Dichloro-2-butene	ND	C3	5.00	10	05/06/2025 04:53	WG2507625
(S) 4-Bromofluorobenzene	*98.6*			*77.0-126*	*05/06/2025 04:53*	WG2507625
(S) 4-Bromofluorobenzene	*111*			*77.0-126*	*05/06/2025 17:55*	WG2508381
(S) Toluene-d8	*102*			*80.0-120*	*05/06/2025 04:53*	WG2507625
(S) Toluene-d8	*91.4*			*80.0-120*	*05/06/2025 17:55*	WG2508381
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*	*05/06/2025 04:53*	WG2507625
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*	*05/06/2025 17:55*	WG2508381

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND	J3	0.0100	1.16	05/05/2025 20:35	WG2504850
2,4,6-Trichlorophenol	ND	J3	0.0100	1.16	05/05/2025 20:35	WG2504850
2,4-Dichlorophenol	ND	J3	0.0100	1.16	05/05/2025 20:35	WG2504850
2,4-Dimethylphenol	ND	C3	0.0100	1.16	05/05/2025 20:35	WG2504850
2,4-Dinitrophenol	ND		0.0100	1.16	05/05/2025 20:35	WG2504850
2-Chlorophenol	ND	J3 J4	0.0100	1.16	05/05/2025 20:35	WG2504850
2-Nitrophenol	ND	J3	0.0100	1.16	05/05/2025 20:35	WG2504850
4,6-Dinitro-2-methylphenol	ND		0.0100	1.16	05/05/2025 20:35	WG2504850
4-Chloro-3-methylphenol	ND		0.0100	1.16	05/05/2025 20:35	WG2504850
4-Nitrophenol	ND		0.0100	1.16	05/05/2025 20:35	WG2504850
Benzoic acid	ND		0.0500	1.16	05/05/2025 20:35	WG2504850
Pentachlorophenol	ND	J3 J4	0.0100	1.16	05/05/2025 20:35	WG2504850
(S) Phenol-d5	*39.7*			*10.0-120*	*05/05/2025 20:35*	WG2504850
(S) p-Terphenyl-d14	*53.1*			*10.0-128*	*05/05/2025 20:35*	WG2504850
(S) Nitrobenzene-d5	*60.7*			*10.0-127*	*05/05/2025 20:35*	WG2504850
(S) 2-Fluorophenol	*35.0*			*10.0-120*	*05/05/2025 20:35*	WG2504850
(S) 2-Fluorobiphenyl	*63.7*			*10.0-130*	*05/05/2025 20:35*	WG2504850
(S) 2,4,6-Tribromophenol	*73.7*			*10.0-155*	*05/05/2025 20:35*	WG2504850

Sample Narrative:

L1852064-05 WG2504850: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		4/26/2025 3:53:00 PM	WG2500651
Initial pH	N/A		4/26/2025 3:53:00 PM	WG2500651
Final pH	N/A		4/26/2025 3:53:00 PM	WG2500651

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	04/28/2025 11:08	WG2501214

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	05/02/2025 10:20	WG2501558
Barium, TCLP	0.374		0.100	100	1	05/02/2025 10:20	WG2501558
Cadmium, TCLP	ND		0.100	1	1	05/02/2025 10:20	WG2501558
Chromium, TCLP	ND		0.100	5	1	05/02/2025 10:20	WG2501558
Lead, TCLP	ND		0.100	5	1	05/02/2025 10:20	WG2501558
Selenium, TCLP	ND		0.100	1	1	05/02/2025 10:20	WG2501558
Silver, TCLP	ND		0.100	5	1	05/02/2025 10:20	WG2501558

Calculated Results

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Total Nitrogen	739		0.100	1	05/05/2025 21:32	WG2503024

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Suspended Solids	16.7		4.00	1	04/29/2025 11:52	WG2501701

Wet Chemistry by Method 2320 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Alkalinity	3880		20.0	1	04/26/2025 16:13	WG2500537
Alkalinity,Bicarbonate	3880		20.0	1	04/26/2025 16:13	WG2500537

Sample Narrative:

L1852064-07 WG2500537: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	674		6.34	200	04/28/2025 16:25	WG2501372

Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	739		3.50	100	05/05/2025 21:32	WG2506835

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.100	5	04/29/2025 22:31	WG2503024

Sample Narrative:

L1852064-07 WG2503024: Dilution due to matrix.

Wet Chemistry by Method 365.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Phosphorus,Total	9.90		0.0500	50	05/01/2025 18:16	WG2503159

Wet Chemistry by Method 5210 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	77.8		33.3	10	05/01/2025 11:42	WG2500589

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND	T8	0.0100	1	04/26/2025 14:45	WG2500575

Wet Chemistry by Method 9012B

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.0100	1	05/05/2025 12:29	WG2506338

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.17	T8	1	04/28/2025 14:15	WG2501556

Sample Narrative:
L1852064-07 WG2501556: 8.17 at 21.5C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chloride	1900		2.60	50	04/30/2025 03:28	WG2500498
Sulfate	18.2		5.00	5	04/30/2025 03:15	WG2500498

Sample Narrative:
L1852064-07 WG2500498: Dilution due to matrix impact on instrumentation at lower dilution

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000490	10	05/04/2025 17:04	WG2504401

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.0100	1	05/03/2025 10:24	WG2505147
Arsenic	0.0441		0.0100	1	05/03/2025 10:24	WG2505147
Barium	0.599		0.00500	1	05/03/2025 10:24	WG2505147
Beryllium	ND		0.00200	1	05/03/2025 10:24	WG2505147
Cadmium	ND		0.00200	1	05/03/2025 10:24	WG2505147
Calcium	66.8		1.00	1	05/03/2025 10:24	WG2505147
Chromium	0.0886		0.0100	1	05/03/2025 10:24	WG2505147
Cobalt	0.0386		0.0100	1	05/03/2025 10:24	WG2505147
Copper	ND		0.0100	1	05/03/2025 10:24	WG2505147
Lead	0.00692		0.00500	1	05/03/2025 10:24	WG2505147
Magnesium	110		1.00	1	05/03/2025 10:24	WG2505147
Molybdenum	ND		0.0100	1	05/03/2025 10:24	WG2505147
Nickel	0.215		0.0100	1	05/03/2025 10:24	WG2505147
Potassium	407		1.00	1	05/03/2025 10:24	WG2505147
Selenium	ND		0.0250	1	05/03/2025 10:24	WG2505147
Silver	ND		0.00600	1	05/03/2025 10:24	WG2505147
Sodium	1510		1.00	5	05/03/2025 19:23	WG2505147
Thallium	ND		0.0200	1	05/03/2025 10:24	WG2505147
Vanadium	0.0284		0.0200	1	05/03/2025 10:24	WG2505147
Zinc	ND		0.0500	1	05/03/2025 10:24	WG2505147

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.20	10	05/06/2025 05:15	WG2507625
1,1,1-Trichloroethane	ND		1.00	10	05/06/2025 05:15	WG2507625
1,1,2,2-Tetrachloroethane	ND		1.30	10	05/06/2025 05:15	WG2507625
1,1,2-Trichloroethane	ND		1.86	10	05/06/2025 05:15	WG2507625
1,1-Dichloroethane	ND		1.14	10	05/06/2025 05:15	WG2507625
1,1-Dichloroethene	ND		1.88	10	05/06/2025 05:15	WG2507625
1,2,3-Trichloropropane	ND		2.50	10	05/06/2025 05:15	WG2507625
1,2-Dibromo-3-Chloropropane	ND		3.25	10	05/06/2025 05:15	WG2507625
1,2-Dibromoethane	ND		1.93	10	05/06/2025 05:15	WG2507625
1,2-Dichloroethane	ND		1.08	10	05/06/2025 05:15	WG2507625
1,2-Dichloropropane	ND		1.90	10	05/06/2025 05:15	WG2507625
2-Butanone (MEK)	ND		12.8	10	05/06/2025 05:15	WG2507625
2-Chloroethyl vinyl ether	ND	C3	50.0	10	05/06/2025 05:15	WG2507625
2-Hexanone	ND		7.57	10	05/06/2025 05:15	WG2507625
4-Methyl-2-pentanone (MIBK)	ND		8.23	10	05/06/2025 05:15	WG2507625
Acetone	ND	J4	25.0	10	05/06/2025 05:15	WG2507625
Acrylonitrile	ND		8.73	10	05/06/2025 05:15	WG2507625
Benzene	ND		1.00	10	05/06/2025 05:15	WG2507625
Bromochloromethane	ND		1.45	10	05/06/2025 05:15	WG2507625
Bromodichloromethane	ND		1.00	10	05/06/2025 05:15	WG2507625
Bromoform	ND		1.86	10	05/06/2025 18:17	WG2508381
Bromomethane	ND	C3	2.50	10	05/06/2025 05:15	WG2507625
Carbon disulfide	ND		1.01	10	05/06/2025 05:15	WG2507625
Carbon tetrachloride	ND		1.59	10	05/06/2025 05:15	WG2507625
Chlorobenzene	ND		1.40	10	05/06/2025 05:15	WG2507625
Chloroethane	ND		2.50	10	05/06/2025 05:15	WG2507625
Chloroform	ND		1.00	10	05/06/2025 05:15	WG2507625
Chloromethane	ND		1.53	10	05/06/2025 05:15	WG2507625
Dibromochloromethane	ND		1.28	10	05/06/2025 05:15	WG2507625
Dibromomethane	ND		1.17	10	05/06/2025 05:15	WG2507625
Ethylbenzene	ND		1.58	10	05/06/2025 05:15	WG2507625
Iodomethane	ND	C3	10.0	10	05/06/2025 05:15	WG2507625
Methylene Chloride	ND		10.7	10	05/06/2025 05:15	WG2507625
Styrene	ND		1.17	10	05/06/2025 05:15	WG2507625
Tetrachloroethene	ND		1.99	10	05/06/2025 05:15	WG2507625
Toluene	ND		4.12	10	05/06/2025 05:15	WG2507625
Trichloroethene	ND		1.53	10	05/06/2025 05:15	WG2507625
Trichlorofluoromethane	ND		2.50	10	05/06/2025 05:15	WG2507625
Vinyl acetate	ND		6.45	10	05/06/2025 05:15	WG2507625
Vinyl chloride	ND		1.18	10	05/06/2025 05:15	WG2507625
Xylenes, Total	ND		3.16	10	05/06/2025 05:15	WG2507625
cis-1,2-Dichloroethene	ND		1.00	10	05/06/2025 05:15	WG2507625
cis-1,3-Dichloropropene	ND		1.00	10	05/06/2025 05:15	WG2507625
trans-1,2-Dichloroethene	ND		1.52	10	05/06/2025 05:15	WG2507625
trans-1,3-Dichloropropene	ND		2.22	10	05/06/2025 05:15	WG2507625
trans-1,4-Dichloro-2-butene	ND	C3	5.00	10	05/06/2025 05:15	WG2507625
(S) 4-Bromofluorobenzene	*98.8*			*77.0-126*	*05/06/2025 05:15*	WG2507625
(S) 4-Bromofluorobenzene	*103*			*77.0-126*	*05/06/2025 18:17*	WG2508381
(S) Toluene-d8	*103*			*80.0-120*	*05/06/2025 05:15*	WG2507625
(S) Toluene-d8	*90.4*			*80.0-120*	*05/06/2025 18:17*	WG2508381
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*	*05/06/2025 05:15*	WG2507625
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*	*05/06/2025 18:17*	WG2508381

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND	J3	0.0100	1.41	05/05/2025 20:56	WG2504850
2,4,6-Trichlorophenol	ND	J3	0.0100	1.41	05/05/2025 20:56	WG2504850
2,4-Dichlorophenol	ND	J3	0.0100	1.41	05/05/2025 20:56	WG2504850
2,4-Dimethylphenol	ND	C3	0.0100	1.41	05/05/2025 20:56	WG2504850
2,4-Dinitrophenol	ND		0.0100	1.41	05/05/2025 20:56	WG2504850
2-Chlorophenol	ND	J3 J4	0.0100	1.41	05/05/2025 20:56	WG2504850
2-Nitrophenol	ND	J3	0.0100	1.41	05/05/2025 20:56	WG2504850
4,6-Dinitro-2-methylphenol	ND		0.0100	1.41	05/05/2025 20:56	WG2504850
4-Chloro-3-methylphenol	ND		0.0100	1.41	05/05/2025 20:56	WG2504850
4-Nitrophenol	ND		0.0100	1.41	05/05/2025 20:56	WG2504850
Benzoic acid	ND		0.0500	1.41	05/05/2025 20:56	WG2504850
Pentachlorophenol	ND	J3 J4	0.0100	1.41	05/05/2025 20:56	WG2504850
(S) Phenol-d5	*35.5*			*10.0-120*	*05/05/2025 20:56*	WG2504850
(S) p-Terphenyl-d14	*50.8*			*10.0-128*	*05/05/2025 20:56*	WG2504850
(S) Nitrobenzene-d5	*63.0*			*10.0-127*	*05/05/2025 20:56*	WG2504850
(S) 2-Fluorophenol	*34.2*			*10.0-120*	*05/05/2025 20:56*	WG2504850
(S) 2-Fluorobiphenyl	*66.7*			*10.0-130*	*05/05/2025 20:56*	WG2504850
(S) 2,4,6-Tribromophenol	*73.8*			*10.0-155*	*05/05/2025 20:56*	WG2504850

Sample Narrative:

L1852064-07 WG2504850: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		4/26/2025 3:53:00 PM	WG2500651
Initial pH	N/A		4/26/2025 3:53:00 PM	WG2500651
Final pH	N/A		4/26/2025 3:53:00 PM	WG2500651

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	04/28/2025 11:37	WG2501214

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	05/02/2025 10:22	WG2501558
Barium, TCLP	0.626		0.100	100	1	05/02/2025 10:22	WG2501558
Cadmium, TCLP	ND		0.100	1	1	05/02/2025 10:22	WG2501558
Chromium, TCLP	0.107		0.100	5	1	05/02/2025 10:22	WG2501558
Lead, TCLP	ND		0.100	5	1	05/02/2025 10:22	WG2501558
Selenium, TCLP	ND		0.100	1	1	05/02/2025 10:22	WG2501558
Silver, TCLP	ND		0.100	5	1	05/02/2025 10:22	WG2501558

Method Blank (MB)

(MB) R4207632-1 04/29/25 11:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1852064-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1852064-01 04/29/25 11:52 • (DUP) R4207632-3 04/29/25 11:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	93.6	98.2	1	4.73		10

L1852064-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1852064-05 04/29/25 11:52 • (DUP) R4207632-4 04/29/25 11:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	20.0	21.7	1	8.02		10

Laboratory Control Sample (LCS)

(LCS) R4207632-2 04/29/25 11:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	814	105	85.0-115	

Method Blank (MB)

(MB) R4205654-2 04/26/25 10:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	4.00		2.71	20.0
Alkalinity,Bicarbonate	4.00		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1850303-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1850303-03 04/26/25 13:26 • (DUP) R4205654-3 04/26/25 13:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	153	152	1	0.914		20
Alkalinity,Bicarbonate	153	152	1	0.914		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

L1852038-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1852038-04 04/26/25 15:08 • (DUP) R4205654-4 04/26/25 15:16

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	94.4	95.9	1	1.62		20
Alkalinity,Bicarbonate	94.4	95.9	1	1.62		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4205654-1 04/26/25 10:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	99.7	99.7	90.0-110	

Laboratory Control Sample (LCS)

(LCS) R4205654-1 04/26/25 10:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4206502-1 04/28/25 14:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1852023-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1852023-02 04/28/25 14:50 • (DUP) R4206502-5 04/28/25 14:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1852023-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1852023-04 04/28/25 14:56 • (DUP) R4206502-7 04/28/25 14:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4206502-2 04/28/25 14:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.64	102	90.0-110	

L1852023-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852023-01 04/28/25 14:41 • (MS) R4206502-3 04/28/25 14:47 • (MSD) R4206502-4 04/28/25 14:49

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	ND	4.93	5.01	97.0	98.5	1	90.0-110			1.53	10

L1852023-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1852023-03 04/28/25 14:53 • (MS) R4206502-6 04/28/25 14:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	0.465	5.61	103	1	90.0-110	

Method Blank (MB)

(MB) R4206504-1 04/28/25 15:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1850681-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1850681-01 04/28/25 16:04 • (DUP) R4206504-3 04/28/25 16:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1850681-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1850681-02 04/28/25 16:10 • (DUP) R4206504-6 04/28/25 16:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4206504-2 04/28/25 16:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.57	101	90.0-110	

L1850681-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1850681-01 04/28/25 16:04 • (MS) R4206504-4 04/28/25 16:07 • (MSD) R4206504-5 04/28/25 16:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	ND	5.15	5.10	103	102	1	90.0-110			0.995	10

L1850681-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1850681-02 04/28/25 16:10 • (MS) R4206504-7 04/28/25 16:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.42	108	1	90.0-110	

Method Blank (MB)

(MB) R4210084-1 05/05/25 20:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	ND		0.0350	0.250

L1852200-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1852200-02 05/05/25 21:07 • (DUP) R4210084-5 05/05/25 21:08

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	30.5	32.4	5	5.99		20

L1852200-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1852200-03 05/05/25 21:09 • (DUP) R4210084-6 05/05/25 21:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	4.22	4.18	1	0.898		20

Laboratory Control Sample (LCS)

(LCS) R4210084-2 05/05/25 20:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	12.0	12.1	101	90.0-110	

L1852061-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852061-01 05/05/25 20:59 • (MS) R4210084-3 05/05/25 21:00 • (MSD) R4210084-4 05/05/25 21:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	5.00	1.01	7.00	7.04	120	121	1	90.0-110	J5	J5	0.510	20

L1852591-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1852591-01 05/05/25 21:11 • (MS) R4210084-7 05/05/25 21:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Kjeldahl Nitrogen, TKN	5.00	2.56	7.36	96.1	1	90.0-110	

Method Blank (MB)

(MB) R4207264-1 04/29/25 22:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	ND		0.0197	0.100

Laboratory Control Sample (LCS)

(LCS) R4207264-2 04/29/25 22:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.56	102	90.0-110	

L1852256-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852256-01 04/29/25 22:39 • (MS) R4207264-3 04/29/25 22:41 • (MSD) R4207264-4 04/29/25 22:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	ND	2.59	2.68	104	107	1	90.0-110			3.42	20

L1852256-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852256-02 04/29/25 22:43 • (MS) R4207264-5 04/29/25 22:45 • (MSD) R4207264-6 04/29/25 22:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	ND	2.54	2.58	102	103	1	90.0-110			1.56	20

Method Blank (MB)

(MB) R4208494-1 05/01/25 17:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus,Total	0.00291		0.00100	0.00300

Laboratory Control Sample (LCS)

(LCS) R4208494-2 05/01/25 17:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	0.0970	0.107	110	78.9-121	

L1852064-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852064-01 05/01/25 18:08 • (MS) R4208494-5 05/01/25 18:10 • (MSD) R4208494-6 05/01/25 18:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	2.50	7.55	10.9	10.7	132	126	50	90.0-110	E J5	E J5	1.39	20

Method Blank (MB)

(MB) R4208315-1 05/01/25 08:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
BOD	ND		0.200	0.200

L1852086-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1852086-02 05/01/25 11:52 • (DUP) R4208315-3 05/01/25 11:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	110	124	1	12.1	K9	30

Laboratory Control Sample (LCS)

(LCS) R4208315-2 05/01/25 10:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	197	99.3	84.6-115	

Laboratory Control Sample (LCS)

(LCS) R4208315-4 05/01/25 12:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	218	110	84.6-115	

Method Blank (MB)

(MB) R4205591-1 04/26/25 14:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Hexavalent	ND		0.00300	0.0100

L1852064-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1852064-03 04/26/25 14:44 • (DUP) R4205591-5 04/26/25 14:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4205591-2 04/26/25 14:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Hexavalent	0.500	0.467	93.4	80.0-120	

Method Blank (MB)

(MB) R4206128-1 04/28/25 10:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Hexavalent	ND		0.00300	0.0100

L1852064-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1852064-01 04/28/25 10:08 • (DUP) R4206128-3 04/28/25 10:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4206128-2 04/28/25 10:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Hexavalent	0.500	0.474	94.8	80.0-120	

L1852064-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852064-01 04/28/25 10:08 • (MS) R4206128-4 04/28/25 10:10 • (MSD) R4206128-5 04/28/25 10:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	0.500	ND	0.0590	0.0580	11.8	11.6	1	75.0-125	J6	J6	1.71	20

Method Blank (MB)

(MB) R4210357-9 05/06/25 11:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	ND		0.00180	0.00500

L1852023-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1852023-03 05/06/25 11:40 • (DUP) R4210357-15 05/06/25 11:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Sample Narrative:

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

L1852023-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1852023-04 05/06/25 11:46 • (DUP) R4210357-16 05/06/25 11:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Sample Narrative:

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Laboratory Control Sample (LCS)

(LCS) R4210357-10 05/06/25 11:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0950	95.0	87.1-120	

L1852023-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852023-01 05/06/25 11:31 • (MS) R4210357-11 05/06/25 11:33 • (MSD) R4210357-12 05/06/25 11:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0898	0.0530	89.8	53.0	1	90.0-110	J6	J3 J6	51.5	20

Sample Narrative:

L1852023-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852023-01 05/06/25 11:31 • (MS) R4210357-11 05/06/25 11:33 • (MSD) R4210357-12 05/06/25 11:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

L1852023-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852023-02 05/06/25 11:36 • (MS) R4210357-13 05/06/25 11:37 • (MSD) R4210357-14 05/06/25 11:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0588	0.0716	58.8	71.6	1	90.0-110	J6	J6	19.6	20

Sample Narrative:

OS: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Method Blank (MB)

(MB) R4209819-1 05/05/25 12:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	ND		0.00180	0.00500

L1852136-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1852136-02 05/05/25 12:39 • (DUP) R4209819-5 05/05/25 12:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

L1852136-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1852136-03 05/05/25 12:42 • (DUP) R4209819-6 05/05/25 12:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4209819-2 05/05/25 12:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0931	93.1	87.1-120	

L1851717-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1851717-02 04/28/25 14:15 • (DUP) R4206404-2 04/28/25 14:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.51	7.50	1	0.133		1

Sample Narrative:

OS: 7.51 at 21.9C

DUP: 7.5 at 22C

L1852356-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1852356-10 04/28/25 14:15 • (DUP) R4206404-3 04/28/25 14:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.34	7.37	1	0.408		1

Sample Narrative:

OS: 7.34 at 22.1C

DUP: 7.37 at 22.4C

Laboratory Control Sample (LCS)

(LCS) R4206404-1 04/28/25 14:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.01 at 22.1C

Method Blank (MB)

(MB) R4207691-1 04/30/25 00:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.272		0.0519	1.00
Sulfate	0.381		0.0774	5.00

L1852038-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1852038-03 04/30/25 00:54 • (DUP) R4207691-3 04/30/25 01:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	5.42	5.62	1	3.57		15
Sulfate	9.72	10.6	1	8.23		15

L1852197-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1852197-03 04/30/25 16:16 • (DUP) R4208274-1 04/30/25 16:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	34.7	34.0	1	2.07		15
Sulfate	76.8	74.7	1	2.79		15

Laboratory Control Sample (LCS)

(LCS) R4207691-2 04/30/25 00:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	36.8	92.0	80.0-120	
Sulfate	40.0	36.7	91.8	80.0-120	

L1852038-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852038-03 04/30/25 00:54 • (MS) R4207691-4 04/30/25 01:20 • (MSD) R4207691-5 04/30/25 01:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	5.42	44.0	42.6	96.3	92.9	1	80.0-120			3.22	15
Sulfate	40.0	9.72	48.4	46.2	96.6	91.2	1	80.0-120			4.53	15

L1852197-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1852197-03 04/30/25 16:16 • (MS) R4208274-2 04/30/25 16:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	34.7	64.9	75.5	1	80.0-120	J6
Sulfate	40.0	76.8	96.6	49.6	1	80.0-120	J6

Method Blank (MB)

(MB) R4206318-1 04/28/25 10:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury, TCLP	0.000132		0.0000490	0.0100

Laboratory Control Sample (LCS)

(LCS) R4206318-2 04/28/25 10:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury, TCLP	0.0300	0.0304	101	80.0-120	

L1851912-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1851912-01 04/28/25 10:57 • (MS) R4206318-4 04/28/25 11:03 • (MSD) R4206318-5 04/28/25 11:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury, TCLP	0.0300	ND	0.0304	0.0306	101	102	1	75.0-125			0.435	20

L1852064-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852064-06 04/28/25 11:08 • (MS) R4206318-6 04/28/25 11:11 • (MSD) R4206318-7 04/28/25 11:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury, TCLP	0.0300	ND	0.0277	0.0278	92.3	92.7	1	75.0-125			0.455	20

Method Blank (MB)

(MB) R4209795-1 05/04/25 16:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	ND		0.0000490	0.000200

Laboratory Control Sample (LCS)

(LCS) R4209795-2 05/04/25 16:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00270	90.0	80.0-120	

L1853501-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853501-02 05/04/25 16:46 • (MS) R4209795-4 05/04/25 16:51 • (MSD) R4209795-5 05/04/25 16:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00186	0.00208	62.1	69.4	1	75.0-125	J6	J6	11.1	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4208562-1 05/01/25 17:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic, TCLP	ND		0.00650	0.100
Barium, TCLP	0.00203		0.00170	0.100
Cadmium, TCLP	ND		0.0463	0.100
Chromium, TCLP	0.00687		0.00140	0.100
Lead, TCLP	ND		0.00190	0.100
Selenium, TCLP	0.0894	J	0.00740	0.100
Silver, TCLP	0.0179		0.00280	0.100

Laboratory Control Sample (LCS)

(LCS) R4208562-2 05/01/25 17:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic, TCLP	10.0	9.94	99.4	80.0-120	
Barium, TCLP	10.0	10.1	101	80.0-120	
Cadmium, TCLP	10.0	9.89	98.9	80.0-120	
Chromium, TCLP	10.0	10.1	101	80.0-120	
Lead, TCLP	10.0	9.75	97.5	80.0-120	
Selenium, TCLP	10.0	9.66	96.6	80.0-120	
Silver, TCLP	2.00	1.92	95.9	80.0-120	

L1851423-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1851423-01 05/01/25 17:28 • (MS) R4208562-4 05/01/25 17:31 • (MSD) R4208562-5 05/01/25 17:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, TCLP	10.0	ND	9.41	9.71	94.1	97.1	1	75.0-125			3.12	20
Barium, TCLP	10.0	ND	9.80	10.0	98.0	100	1	75.0-125			2.20	20
Cadmium, TCLP	10.0	ND	9.60	9.86	96.0	98.6	1	75.0-125			2.69	20
Chromium, TCLP	10.0	ND	9.67	9.87	96.7	98.7	1	75.0-125			2.08	20
Lead, TCLP	10.0	ND	9.26	9.47	92.6	94.7	1	75.0-125			2.23	20
Selenium, TCLP	10.0	ND	9.01	9.20	90.1	92.0	1	75.0-125			2.10	20
Silver, TCLP	2.00	ND	1.85	1.88	92.6	94.2	1	75.0-125			1.81	20

L1851735-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1851735-02 05/01/25 17:34 • (MS) R4208562-6 05/01/25 17:36 • (MSD) R4208562-7 05/01/25 17:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, TCLP	10.0	ND	10.1	10.5	101	105	1	75.0-125			3.89	20
Barium, TCLP	10.0	0.616	10.8	11.0	101	104	1	75.0-125			2.52	20
Cadmium, TCLP	10.0	ND	10.0	10.3	100	103	1	75.0-125			2.94	20
Chromium, TCLP	10.0	ND	10.1	10.6	101	106	1	75.0-125			4.51	20
Lead, TCLP	10.0	ND	9.87	10.3	98.7	103	1	75.0-125			4.43	20
Selenium, TCLP	10.0	ND	9.73	10.1	96.9	100	1	75.0-125			3.41	20
Silver, TCLP	2.00	ND	1.90	2.02	95.1	101	1	75.0-125			5.85	20

Method Blank (MB)

(MB) R4209332-1 05/03/25 13:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	ND		0.00750	0.0100
Arsenic	ND		0.00650	0.0100
Barium	ND		0.00170	0.00500
Beryllium	ND		0.000700	0.00200
Cadmium	ND		0.000700	0.00200
Calcium	ND		0.0463	1.00
Chromium	ND		0.00140	0.0100
Cobalt	ND		0.00230	0.0100
Copper	ND		0.00530	0.0100
Lead	ND		0.00190	0.00500
Magnesium	ND		0.0111	1.00
Molybdenum	ND		0.00160	0.00500
Nickel	ND		0.00490	0.0100
Potassium	ND		0.102	1.00
Selenium	ND		0.00740	0.0100
Silver	ND		0.00280	0.00500
Sodium	ND		0.0985	1.00
Thallium	ND		0.00650	0.0100
Vanadium	ND		0.00240	0.0200
Zinc	ND		0.00590	0.0500

Laboratory Control Sample (LCS)

(LCS) R4209332-2 05/03/25 13:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	1.00	0.948	94.8	80.0-120	
Arsenic	1.00	0.960	96.0	80.0-120	
Barium	1.00	1.03	103	80.0-120	
Beryllium	1.00	1.00	100	80.0-120	
Cadmium	1.00	0.965	96.5	80.0-120	
Calcium	10.0	9.98	99.8	80.0-120	
Chromium	1.00	1.02	102	80.0-120	
Cobalt	1.00	0.940	94.0	80.0-120	
Copper	1.00	0.997	99.7	80.0-120	
Lead	1.00	0.960	96.0	80.0-120	
Magnesium	10.0	9.62	96.2	80.0-120	
Molybdenum	1.00	1.00	100	80.0-120	
Nickel	1.00	0.949	94.9	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4209332-2 05/03/25 13:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Potassium	10.0	9.62	96.2	80.0-120	
Selenium	1.00	0.945	94.5	80.0-120	
Silver	0.200	0.189	94.4	80.0-120	
Sodium	10.0	9.98	99.8	80.0-120	
Thallium	1.00	0.993	99.3	80.0-120	
Vanadium	1.00	0.979	97.9	80.0-120	
Zinc	1.00	0.991	99.1	80.0-120	

L1852038-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852038-03 05/03/25 13:27 • (MS) R4209332-4 05/03/25 13:30 • (MSD) R4209332-5 05/03/25 13:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	1.00	ND	0.956	0.973	95.6	97.3	1	75.0-125			1.71	20
Arsenic	1.00	ND	0.968	0.979	96.8	97.9	1	75.0-125			1.17	20
Barium	1.00	0.0215	1.06	1.07	104	105	1	75.0-125			0.940	20
Beryllium	1.00	ND	1.01	1.03	101	103	1	75.0-125			1.48	20
Cadmium	1.00	ND	0.966	0.970	96.6	97.0	1	75.0-125			0.406	20
Calcium	10.0	4.11	14.0	14.2	99.2	100	1	75.0-125			0.887	20
Chromium	1.00	ND	1.03	1.04	103	104	1	75.0-125			0.620	20
Cobalt	1.00	ND	0.957	0.964	95.5	96.2	1	75.0-125			0.689	20
Copper	1.00	ND	1.01	1.01	101	101	1	75.0-125			0.578	20
Lead	1.00	ND	0.962	0.963	96.2	96.3	1	75.0-125			0.0876	20
Magnesium	10.0	ND	10.5	10.6	95.7	95.9	1	75.0-125			0.203	20
Molybdenum	1.00	ND	1.01	1.02	101	102	1	75.0-125			0.937	20
Nickel	1.00	ND	0.962	0.970	95.8	96.6	1	75.0-125			0.822	20
Potassium	10.0	2.81	12.4	12.6	95.7	97.8	1	75.0-125			1.66	20
Selenium	1.00	ND	0.973	0.977	97.3	97.7	1	75.0-125			0.418	20
Silver	0.200	ND	0.191	0.191	95.3	95.6	1	75.0-125			0.250	20
Sodium	10.0	19.8	27.9	28.0	80.6	81.7	1	75.0-125			0.386	20
Thallium	1.00	ND	0.991	0.998	99.1	99.8	1	75.0-125			0.683	20
Vanadium	1.00	ND	0.982	0.997	98.2	99.7	1	75.0-125			1.52	20
Zinc	1.00	ND	1.01	1.01	99.8	100	1	75.0-125			0.277	20

Method Blank (MB)

(MB) R4209359-1 05/03/25 10:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	ND	J	0.00750	0.0100
Arsenic	ND		0.00650	0.0100
Barium	ND		0.00170	0.00500
Beryllium	ND		0.000700	0.00200
Cadmium	ND		0.000700	0.00200
Calcium	ND		0.0463	1.00
Chromium	ND		0.00140	0.0100
Cobalt	ND		0.00230	0.0100
Copper	ND		0.00530	0.0100
Lead	0.00293	J	0.00190	0.00500
Magnesium	ND		0.0111	1.00
Molybdenum	ND		0.00160	0.00500
Nickel	ND		0.00490	0.0100
Potassium	ND		0.102	1.00
Selenium	ND		0.00740	0.0100
Silver	ND		0.00280	0.00500
Sodium	ND		0.0985	1.00
Thallium	ND		0.00650	0.0100
Vanadium	ND		0.00240	0.0200
Zinc	ND		0.00590	0.0500

Laboratory Control Sample (LCS)

(LCS) R4209359-2 05/03/25 10:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	1.00	0.965	96.5	80.0-120	
Arsenic	1.00	0.950	95.0	80.0-120	
Barium	1.00	1.00	100	80.0-120	
Beryllium	1.00	0.984	98.4	80.0-120	
Cadmium	1.00	0.969	96.9	80.0-120	
Calcium	10.0	9.66	96.6	80.0-120	
Chromium	1.00	0.962	96.2	80.0-120	
Cobalt	1.00	0.914	91.4	80.0-120	
Copper	1.00	1.02	102	80.0-120	
Lead	1.00	0.928	92.8	80.0-120	
Magnesium	10.0	9.93	99.3	80.0-120	
Molybdenum	1.00	0.998	99.8	80.0-120	
Nickel	1.00	0.927	92.7	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4209359-2 05/03/25 10:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Potassium	10.0	9.86	98.6	80.0-120	
Selenium	1.00	0.928	92.8	80.0-120	
Silver	0.200	0.196	97.9	80.0-120	
Sodium	10.0	9.97	99.7	80.0-120	
Thallium	1.00	0.995	99.5	80.0-120	
Vanadium	1.00	0.953	95.3	80.0-120	
Zinc	1.00	0.960	96.0	80.0-120	

L1851056-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1851056-01 05/03/25 10:13 • (MS) R4209359-4 05/03/25 10:16 • (MSD) R4209359-5 05/03/25 10:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	1.00	0.0134	0.961	0.968	94.7	95.5	1	75.0-125			0.766	20
Arsenic	1.00	ND	0.976	0.964	97.6	96.4	1	75.0-125			1.25	20
Barium	1.00	0.108	1.09	1.10	98.6	98.8	1	75.0-125			0.240	20
Beryllium	1.00	ND	0.981	0.975	98.1	97.5	1	75.0-125			0.599	20
Cadmium	1.00	0.00237	0.967	0.967	96.5	96.5	1	75.0-125			0.0288	20
Calcium	10.0	142	149	148	67.3	61.4	1	75.0-125	V	V	0.402	20
Chromium	1.00	ND	0.971	0.961	97.1	96.1	1	75.0-125			1.04	20
Cobalt	1.00	ND	0.951	0.950	94.5	94.4	1	75.0-125			0.0394	20
Copper	1.00	ND	1.01	0.999	101	99.9	1	75.0-125			0.790	20
Lead	1.00	ND	0.945	0.943	94.1	93.8	1	75.0-125			0.232	20
Magnesium	10.0	32.7	42.0	41.8	92.9	90.1	1	75.0-125			0.669	20
Molybdenum	1.00	0.0125	0.998	1.00	98.5	99.0	1	75.0-125			0.466	20
Nickel	1.00	ND	0.960	0.960	95.5	95.6	1	75.0-125			0.0757	20
Potassium	10.0	10.0	19.8	19.8	98.1	97.9	1	75.0-125			0.136	20
Selenium	1.00	ND	0.936	0.937	93.6	93.7	1	75.0-125			0.0607	20
Silver	0.200	ND	0.197	0.197	98.3	98.7	1	75.0-125			0.435	20
Sodium	10.0	14.1	22.7	22.8	86.5	86.7	1	75.0-125			0.115	20
Thallium	1.00	ND	0.983	0.987	98.3	98.7	1	75.0-125			0.450	20
Vanadium	1.00	ND	0.953	0.951	95.3	95.1	1	75.0-125			0.249	20
Zinc	1.00	0.271	1.23	1.23	95.7	95.9	1	75.0-125			0.118	20

Method Blank (MB)

(MB) R4210466-5 05/05/25 20:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.186	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Chloroethyl vinyl ether	ND		0.575	50.0
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	ND		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromochloromethane	ND		0.145	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	ND		0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	ND		0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00
Vinyl chloride	ND		0.118	0.500
Xylenes, Total	ND		0.316	1.50

Method Blank (MB)

(MB) R4210466-5 05/05/25 20:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) Toluene-d8	*104*			*80.0-120*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4210466-1 05/05/25 17:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1,2-Tetrachloroethane	5.00	4.45	89.0	75.0-125	
1,1,1-Trichloroethane	5.00	5.75	115	73.0-124	
1,1,2,2-Tetrachloroethane	5.00	4.78	95.6	65.0-130	
1,1,2-Trichloroethane	5.00	4.63	92.6	80.0-120	
1,1-Dichloroethane	5.00	5.19	104	70.0-126	
1,1-Dichloroethene	5.00	5.36	107	71.0-124	
1,2,3-Trichloropropane	5.00	5.31	106	73.0-130	
1,2-Dibromo-3-Chloropropane	5.00	4.05	81.0	58.0-134	
1,2-Dibromoethane	5.00	4.30	86.0	80.0-122	
1,2-Dichloroethane	5.00	5.45	109	70.0-128	
1,2-Dichloropropane	5.00	5.02	100	77.0-125	
2-Butanone (MEK)	25.0	36.6	146	44.0-160	
2-Chloroethyl vinyl ether	25.0	18.2	72.8	51.0-160	J
2-Hexanone	25.0	25.0	100	67.0-149	
4-Methyl-2-pentanone (MIBK)	25.0	25.4	102	68.0-142	
Acetone	25.0	43.9	176	19.0-160	J4
Acrylonitrile	25.0	28.6	114	55.0-149	
Benzene	5.00	5.41	108	70.0-123	
Bromochloromethane	5.00	4.55	91.0	76.0-122	
Bromodichloromethane	5.00	5.13	103	75.0-120	
Bromomethane	5.00	2.32	46.4	10.0-160	J
Carbon disulfide	5.00	6.19	124	61.0-128	
Carbon tetrachloride	5.00	5.41	108	68.0-126	
Chlorobenzene	5.00	4.62	92.4	80.0-121	
Chloroethane	5.00	5.63	113	47.0-150	

Laboratory Control Sample (LCS)

(LCS) R4210466-1 05/05/25 17:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloroform	5.00	5.46	109	73.0-120	
Chloromethane	5.00	5.36	107	41.0-142	
Dibromochloromethane	5.00	4.27	85.4	77.0-125	
Dibromomethane	5.00	5.21	104	80.0-120	
Ethylbenzene	5.00	4.41	88.2	79.0-123	
Iodomethane	25.0	8.33	33.3	33.0-147	
Methylene Chloride	5.00	4.81	96.2	67.0-120	
Styrene	5.00	4.17	83.4	73.0-130	
Tetrachloroethene	5.00	4.76	95.2	72.0-132	
Toluene	5.00	4.71	94.2	79.0-120	
Trichloroethene	5.00	5.18	104	78.0-124	
Trichlorofluoromethane	5.00	5.93	119	59.0-147	
Vinyl acetate	25.0	26.1	104	11.0-160	
Vinyl chloride	5.00	6.17	123	67.0-131	
Xylenes, Total	15.0	13.5	90.0	79.0-123	
cis-1,2-Dichloroethene	5.00	4.90	98.0	73.0-120	
cis-1,3-Dichloropropene	5.00	4.81	96.2	80.0-123	
trans-1,2-Dichloroethene	5.00	5.27	105	73.0-120	
trans-1,3-Dichloropropene	5.00	4.70	94.0	78.0-124	
trans-1,4-Dichloro-2-butene	5.00	2.79	55.8	33.0-144	J
(S) 4-Bromofluorobenzene			*97.4*	*77.0-126*	
(S) Toluene-d8			*95.7*	*80.0-120*	
(S) 1,2-Dichloroethane-d4			*106*	*70.0-130*	

Method Blank (MB)

(MB) R4210964-3 05/06/25 10:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Bromoform	ND		0.186	0.500
(S) 4-Bromofluorobenzene	*98.8*			*77.0-126*
(S) Toluene-d8	*90.7*			*80.0-120*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4210964-1 05/06/25 09:48 • (LCSD) R4210964-2 05/06/25 10:10

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	5.00	5.24	4.75	105	95.0	68.0-132			9.81	20
(S) 4-Bromofluorobenzene				*103*	*96.2*	*77.0-126*				
(S) Toluene-d8				*90.8*	*89.8*	*80.0-120*				
(S) 1,2-Dichloroethane-d4				*113*	*113*	*70.0-130*				

Method Blank (MB)

(MB) R4209729-3 05/02/25 20:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
2,4,5-Trichlorophenol	ND		0.000236	0.0100
2,4,6-Trichlorophenol	ND		0.000100	0.0100
2,4-Dichlorophenol	ND		0.000102	0.0100
2,4-Dimethylphenol	ND		0.0000636	0.0100
2,4-Dinitrophenol	ND		0.00593	0.0100
2-Chlorophenol	ND		0.000133	0.0100
2-Nitrophenol	ND		0.000117	0.0100
4,6-Dinitro-2-methylphenol	ND		0.00112	0.0100
4-Chloro-3-methylphenol	ND		0.000131	0.0100
4-Nitrophenol	ND		0.000143	0.0100
Benzoic acid	ND		0.00170	0.0500
Pentachlorophenol	ND		0.000313	0.0100
(S) Phenol-d5	*16.7*			*10.0-120*
(S) p-Terphenyl-d14	*52.3*			*10.0-128*
(S) Nitrobenzene-d5	*52.8*			*10.0-127*
(S) 2-Fluorophenol	*26.3*			*10.0-120*
(S) 2-Fluorobiphenyl	*54.2*			*10.0-130*
(S) 2,4,6-Tribromophenol	*26.5*			*10.0-155*

Laboratory Control Sample (LCS)

(LCS) R4209729-1 05/02/25 19:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,4,5-Trichlorophenol	0.0500	0.0330	66.0	44.0-120	
2,4,6-Trichlorophenol	0.0500	0.0317	63.4	42.0-120	
2,4-Dichlorophenol	0.0500	0.0264	52.8	36.0-120	
2,4-Dimethylphenol	0.0500	0.0223	44.6	33.0-120	
2,4-Dinitrophenol	0.0500	0.0231	46.2	10.0-120	
2-Chlorophenol	0.0500	0.0201	40.2	25.0-120	
2-Nitrophenol	0.0500	0.0286	57.2	31.0-120	
4,6-Dinitro-2-methylphenol	0.0500	0.0359	71.8	38.0-138	
4-Chloro-3-methylphenol	0.0500	0.0282	56.4	40.0-120	
4-Nitrophenol	0.0500	0.0146	29.2	10.0-120	
Benzoic acid	0.100	0.00849	8.49	10.0-120	J J4
Pentachlorophenol	0.0500	0.0122	24.4	23.0-120	
(S) Phenol-d5			*21.8*	*10.0-120*	
(S) p-Terphenyl-d14			*71.4*	*10.0-128*	
(S) Nitrobenzene-d5			*54.9*	*10.0-127*	

Laboratory Control Sample (LCS)

(LCS) R4209729-1 05/02/25 19:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) 2-Fluorophenol			*30.6*	*10.0-120*	
(S) 2-Fluorobiphenyl			*65.4*	*10.0-130*	
(S) 2,4,6-Tribromophenol			*76.0*	*10.0-155*	

L1852609-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1852609-03 05/02/25 23:15 • (MS) R4209729-4 05/02/25 23:37 • (MSD) R4209729-5 05/02/25 23:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4,5-Trichlorophenol	0.0439	ND	0.0373	0.0296	85.0	67.4	1	33.0-120			23.0	31
2,4,6-Trichlorophenol	0.0439	ND	0.0348	0.0281	79.3	64.0	1	26.0-120			21.3	31
2,4-Dichlorophenol	0.0439	ND	0.0297	0.0226	67.7	51.5	1	19.0-120		J3	27.2	27
2,4-Dimethylphenol	0.0439	ND	0.0254	0.0191	57.9	43.5	1	15.0-120		J3	28.3	28
2,4-Dinitrophenol	0.0439	ND	0.0307	0.0246	69.9	56.0	1	10.0-120			22.1	40
2-Chlorophenol	0.0439	ND	0.0231	0.0167	52.6	38.0	1	18.0-120			32.2	34
2-Nitrophenol	0.0439	ND	0.0302	0.0257	68.8	58.5	1	20.0-120			16.1	30
4,6-Dinitro-2-methylphenol	0.0439	ND	0.0361	0.0319	82.2	72.7	1	10.0-144			12.4	39
4-Chloro-3-methylphenol	0.0439	ND	0.0326	0.0236	74.3	53.8	1	26.0-120		J3	32.0	27
4-Nitrophenol	0.0439	ND	0.0167	0.0143	38.0	32.6	1	10.0-120			15.5	40
Benzoic acid	0.0878	ND	ND	ND	34.3	22.4	1	10.0-120		J3	41.8	40
Pentachlorophenol	0.0439	ND	0.0255	0.0204	58.1	46.5	1	10.0-128			22.2	37
(S) Phenol-d5					*28.6*	*21.6*		*10.0-120*				
(S) p-Terphenyl-d14					*73.1*	*64.8*		*10.0-128*				
(S) Nitrobenzene-d5					*68.0*	*58.4*		*10.0-127*				
(S) 2-Fluorophenol					*38.4*	*28.6*		*10.0-120*				
(S) 2-Fluorobiphenyl					*76.9*	*64.0*		*10.0-130*				
(S) 2,4,6-Tribromophenol					*94.3*	*80.7*		*10.0-155*				

Method Blank (MB)

(MB) R4209837-4 05/03/25 17:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
2,4,5-Trichlorophenol	ND		0.000236	0.0100
2,4,6-Trichlorophenol	ND		0.000100	0.0100
2,4-Dichlorophenol	ND		0.000102	0.0100
2,4-Dimethylphenol	0.000350	J	0.0000636	0.0100
2,4-Dinitrophenol	ND		0.00593	0.0100
2-Chlorophenol	ND		0.000133	0.0100
2-Nitrophenol	ND		0.000117	0.0100
4,6-Dinitro-2-methylphenol	ND		0.00112	0.0100
4-Chloro-3-methylphenol	ND		0.000131	0.0100
4-Nitrophenol	ND		0.000143	0.0100
Benzoic acid	ND		0.00170	0.0500
Pentachlorophenol	ND		0.000313	0.0100
(S) Phenol-d5	*16.9*			*10.0-120*
(S) p-Terphenyl-d14	*68.4*			*10.0-128*
(S) Nitrobenzene-d5	*33.4*			*10.0-127*
(S) 2-Fluorophenol	*24.4*			*10.0-120*
(S) 2-Fluorobiphenyl	*38.1*			*10.0-130*
(S) 2,4,6-Tribromophenol	*50.5*			*10.0-155*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4209837-1 05/03/25 15:59 • (LCSD) R4209837-2 05/03/25 16:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,4,5-Trichlorophenol	0.0500	0.0349	0.0270	69.8	54.0	44.0-120		J3	25.5	22
2,4,6-Trichlorophenol	0.0500	0.0321	0.0245	64.2	49.0	42.0-120		J3	26.9	23
2,4-Dichlorophenol	0.0500	0.0285	0.0187	57.0	37.4	36.0-120		J3	41.5	26
2,4-Dimethylphenol	0.0500	0.0196	0.0175	39.2	35.0	33.0-120			11.3	26
2,4-Dinitrophenol	0.0500	0.0242	0.0206	48.4	41.2	10.0-120			16.1	39
2-Chlorophenol	0.0500	0.0207	0.0122	41.4	24.4	25.0-120		J3 J4	51.7	35
2-Nitrophenol	0.0500	0.0295	0.0186	59.0	37.2	31.0-120		J3	45.3	29
4,6-Dinitro-2-methylphenol	0.0500	0.0346	0.0285	69.2	57.0	38.0-138			19.3	25
4-Chloro-3-methylphenol	0.0500	0.0317	0.0273	63.4	54.6	40.0-120			14.9	21
4-Nitrophenol	0.0500	0.0150	0.0126	30.0	25.2	10.0-120			17.4	33
Benzoic acid	0.100	0.0126	0.0185	12.6	18.5	10.0-120	J	J	37.9	40
Pentachlorophenol	0.0500	0.0119	0.00914	23.8	18.3	23.0-120		J J3 J4	26.2	25
(S) Phenol-d5				*24.9*	*15.8*	*10.0-120*				
(S) p-Terphenyl-d14				*71.9*	*67.3*	*10.0-128*				
(S) Nitrobenzene-d5				*51.3*	*32.0*	*10.0-127*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4209837-1 05/03/25 15:59 • (LCSD) R4209837-2 05/03/25 16:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorophenol				*31.4*	*19.0*	*10.0-120*				
(S) 2-Fluorobiphenyl				*67.9*	*52.0*	*10.0-130*				
(S) 2,4,6-Tribromophenol				*75.0*	*62.5*	*10.0-155*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
K9	Test replicates show more than 30% difference between high and low values.

GLOSSARY OF TERMS

Qualifier	Description
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Qrtly WWTP-Leachate List 1(1,4,7,10)

City/State Collected: Iowa

Please Circle: PT MT (CT) ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
500

Lab Project #
WMCENIA-00003

Collected by (print):
Tim MacDonald

Site/Facility ID #
IA02

P.O. #

Collected by (signature):
Tim MacDonald

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8270 100ml Amb NoPres	ALK,Cl,SO4, pH 125mlHDPE-NoPres	BODLL 1L-HDPE-NoPres	CN 250mlHDPEAmb-NaOH	CR6 250mlHDPE-NoPres	Metals 250mlHDPE-HNO3	NH3,NO2NO3,PT-LL,TKN 250mlHDPE-H2SO4	OGHEX 1L-Cl-WT-HCl	TCLP Mtls 1L-Cl-NoPres	TSS 1L-HDPE NoPres	Remarks	Sample # (lab only)
LEACHATE POND #1	—	GW		4/25/25	1025 Lm	15	X	X	X	X	X	X	X	X	X	X		-01,02
LEACHATE POND #2	—	GW			1055 L	15	X	X	X	X	X	X	X	X	X	X		-03,04
LEACHATE POND #3	—	GW			0910L	15 TB	X	X	X	X	X	X	X	X	X	X		-05,06
LEACHATE POND #4	—	GW			0940L	15	X	X	X	X	X	X	X	X	X	X		-07,08

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1552064
F186

Acctnum: **WMCENIA**
Template: **T237544**
Prelogin: **P1138928**
PM: **3564 - Chad A Upchurch**
PB: 3/19/25 mV
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	✓NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
Tim MacDonald-Alliance	4/25/25	1210 L		4	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 58	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) CROBERTS	Date: 04/26/25 Time: 0900	Hold: Condition: NCF / OK

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Qrtly WWTP-Leachate List 1(1,4,7,10)

City/State Collected: Iowa

Please Circle: PT MT (CT) ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
500

Lab Project #
WMCENIA-00003

Collected by (print):
Tim MacDonald

Site/Facility ID #
IA02

P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

V8260LLAP9C 40mlAmb-HCl

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260LLAP9C 40mlAmb-HCl	Remarks	Sample # (lab only)
LEACHATE POND #1	—	GW		4/25/25	1025	15	X		-01,02
LEACHATE POND #2	—	GW			1055	15	X		-03,04
LEACHATE POND #3	—	GW			0910	15	X		-05,06
LEACHATE POND #4	—	GW			0940	15	X		-07,08

04.26.25 CR

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L857004

Table #

Acctnum: **WMCENIA**
Template: **T237544**
Prelogin: **P1138928**
PM: **3564 - Chad A Upchurch**
PB: 3/19/25 MW

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP Y N
COC Signed/Accurate: ✓Y N
Bottles arrive intact: ✓Y N
Correct bottles used: ✓Y N
Sufficient volume sent: ✓Y N
If Applicable
VOA Zero Headspace: ✓Y N
Preservation Correct/Checked: ✓Y N
RAD Screen <0.5 mR/hr: ✓Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
Kristy Williamson MSP	4/25/25	1210		4	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 58	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) CR	Date: 04.26.25 Time: 0900	Hold: Condition: NCF / OK

Multiple Parcel Form

L# LR552064

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4359 9293 2527	TLA93	0.7	0.4	1.1	Yes / No / Not Present
4359 9293 2490		1.4	0.4	1.8	Yes / No / Not Present
4359 9293 2516		2.3	0.4	2.7	Yes / No / Not Present
4359 9293 2505		0.7	0.4	1.1	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

CRoberts
Name

04.26.25
Date

4/26 L1852064 WMCENIA - Update

R5

Time estimate: oh **Time spent:** oh

Members

Hailey Robertson (responsible) CU Chad Upchurch

Due on *30 April 2025 8:00 AM* for target *Done*

- [ ] Parameter(s) past holding time
- [ ] Temperature not in range
- [ ] Improper container type
- [x] pH not in range
- [ ] Insufficient sample volume
- [ ] Sample is biphasic
- [ ] Vials received with headspace
- [ ] Broken container
- [ ] Sufficient sample remains
- [ ] If broken container: Insufficient packing material around container
- [ ] If broken container: Insufficient packing material inside cooler
- [ ] If broken container: Improper handling by carrier:_____
- [ ] If broken container: Sample was frozen
- [ ] If broken container: Container lid not intact
- [ ] Client informed by Call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Hailey Robertson *26 April 2025 9:52 AM*

1) Metals received out of pH range for IDs: #1, #2 and #4

2) Did not receive the 8270 containers for ID: #3

Chad Upchurch *28 April 2025 10:32 AM*

1) Samples collected in pre-preserved containers provided by the lab. The amount of preservative was not adequate to achieve or maintain the target pH. Document with NCF and send to lab for additional preservation.

2) UPDATE: The missing 8270 containers for LEACHATE POND #3 are logged under L1852386-04. Please move the two containers extra containers from L1852386-04 to L1852064-05. Please add 8270 to L1852064-05.

Hailey Robertson *29 April 2025 9:44 AM*

Done

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

May 15, 2025

Jimmy Huckaba

,

RE: Project: L1852064
Pace Project No.: 60474290

Dear Jimmy Huckaba:

Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Allison Sherman
allison.sherman@pacelabs.com
(913)599-5665
PM Lab Management

Enclosures

cc: MTJLSuboutTeam, Pace Analytical National

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: L1852064
Pace Project No.: 60474290

Pace Analytical Services Kansas
9608 Loiret Boulevard, Lenexa, KS 66219
Arkansas Certification #: 88-00679
Colorado Division of Oil and Public Safety
Illinois Certification #: 2000302023-6
Iowa Certification #: 118
Kansas Field Laboratory Certification #: E-92587
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Missouri Inorganic Drinking Water Certification
Nevada Certification #: KS000212024-1
Oklahoma Certification #: 2023-073
Texas Certification #: T104704407-23-17
Utah Certification #: KS000212022-13

REPORT OF LABORATORY ANALYSIS

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: L1852064
Pace Project No.: 60474290

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60474290001	**LEACHATE POND #1**	Water	04/25/25 10:25	05/01/25 10:00
60474290002	**LEACHATE POND #2**	Water	04/25/25 10:55	05/01/25 10:00
60474290003	**LEACHATE POND #3**	Water	04/25/25 09:10	05/01/25 10:00
60474290004	**LEACHATE POND #4**	Water	04/25/25 04:00	05/01/25 10:00

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SAMPLE ANALYTE COUNT

Project: L1852064
Pace Project No.: 60474290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60474290001	**LEACHATE POND #1**	EPA 1664A	KVI	1	PASI-K
60474290002	**LEACHATE POND #2**	EPA 1664A	KVI	1	PASI-K
60474290003	**LEACHATE POND #3**	EPA 1664A	KVI	1	PASI-K
60474290004	**LEACHATE POND #4**	EPA 1664A	KVI	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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ANALYTICAL RESULTS

Project: L1852064
Pace Project No.: 60474290

Sample: LEACHATE POND #1 **Lab ID: 60474290001** Collected: 04/25/25 10:25 Received: 05/01/25 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664A Pace Analytical Services - Kansas City								
Oil and Grease	ND	mg/L	6.2	1.6	1		05/14/25 11:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1852064
Pace Project No.: 60474290

Sample: LEACHATE POND #2 **Lab ID: 60474290002** Collected: 04/25/25 10:55 Received: 05/01/25 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664A Pace Analytical Services - Kansas City								
Oil and Grease	ND	mg/L	6.2	1.6	1		05/14/25 11:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1852064
Pace Project No.: 60474290

Sample: LEACHATE POND #3 **Lab ID: 60474290003** Collected: 04/25/25 09:10 Received: 05/01/25 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664A Pace Analytical Services - Kansas City								
Oil and Grease	ND	mg/L	6.2	1.6	1		05/14/25 11:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1852064
Pace Project No.: 60474290

Sample: LEACHATE POND #4 **Lab ID: 60474290004** Collected: 04/25/25 04:00 Received: 05/01/25 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664A Pace Analytical Services - Kansas City								
Oil and Grease	ND	mg/L	6.2	1.6	1		05/14/25 11:15		

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QUALITY CONTROL DATA

Project: L1852064
Pace Project No.: 60474290

QC Batch: 934949 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60474290001, 60474290002, 60474290003, 60474290004

METHOD BLANK: 3705426 Matrix: Water
Associated Lab Samples: 60474290001, 60474290002, 60474290003, 60474290004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	1.3	05/14/25 11:10	

LABORATORY CONTROL SAMPLE: 3705427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	32.7	82	78-114	

MATRIX SPIKE SAMPLE: 3705445

Parameter	Units	60474692001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	38.8	11.8	27	78-114	M1

SAMPLE DUPLICATE: 3705444

Parameter	Units	60474621002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	13.6	16.0	16	18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L1852064
Pace Project No.: 60474290

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1852064
Pace Project No.: 60474290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60474290001	**LEACHATE POND #1**	EPA 1664A	934949		
60474290002	**LEACHATE POND #2**	EPA 1664A	934949		
60474290003	**LEACHATE POND #3**	EPA 1664A	934949		
60474290004	**LEACHATE POND #4**	EPA 1664A	934949		

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WO# : 60474290

60474290

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Co	
	Revision: 2	Effective Date: 01/12/2022

Client Name: PACE NAT

Courier: FedEx ☑ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: 4431 2956 4526 Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☑ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: T301 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 2.1 **Corr. Factor** +0.1 **Corrected** 2.2

Date and initials of person examining contents: AF 5/2

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	cooler 2 - 1.5
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	4515
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO3, H2SO4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) **LOT#:**	☐Yes ☐No ☑N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☑N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Qualtrax Document ID: 30468

604742400

Sub-Contract Chain of Custody

Batch Date/Time: 04/26/25 14:42
Sub-Contract Lab: PACELKS
Address: 9608 Loiret Boulevard #2406
City/State: Lenexa, KS 66219
Contact: Allison.Sherman@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2500704
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 05/07/25
ESC Purchase Order #: L1852064
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone:(615) 773-9756
Fax:(615) 758-5859

Sample ID / Container ID	Matrix	State	Collect Date	Description	Method	Sample Number Lab Use Only	Sample Comments Lab Use Only
LEACHATE POND #1	GW	IA	04/25/25 10:25	Oil & Grease (Hexane Extr)	1664A	1. L1852064-01	
LEACHATE POND #2	GW	IA	04/25/25 10:55	Oil & Grease (Hexane Extr)	1664A	2. L1852064-03	
LEACHATE POND #3	GW	IA	04/25/25 09:10	Oil & Grease (Hexane Extr)	1664A	3. L1852064-05	
LEACHATE POND #4	GW	IA	04/25/25 04:00	Oil & Grease (Hexane Extr)	1664A	4. L1852064-07	

*= Container used for multiple Samples and or Analyses

Relinquished by: _____ Date 4-30-25

Received by: JAPAC Date 5/1/25 1000 22

Relinquished by: _____ Date _____

Received by: _____ Date _____

Client: Pace

Profile/EZ # 14832

Site:

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3B	BP3Z	WPDU	ZPLC	Other	
1	WT																													2222BG1H	
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1B	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2B	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3B	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60474290

ANALYTICAL REPORT

May 19, 2025

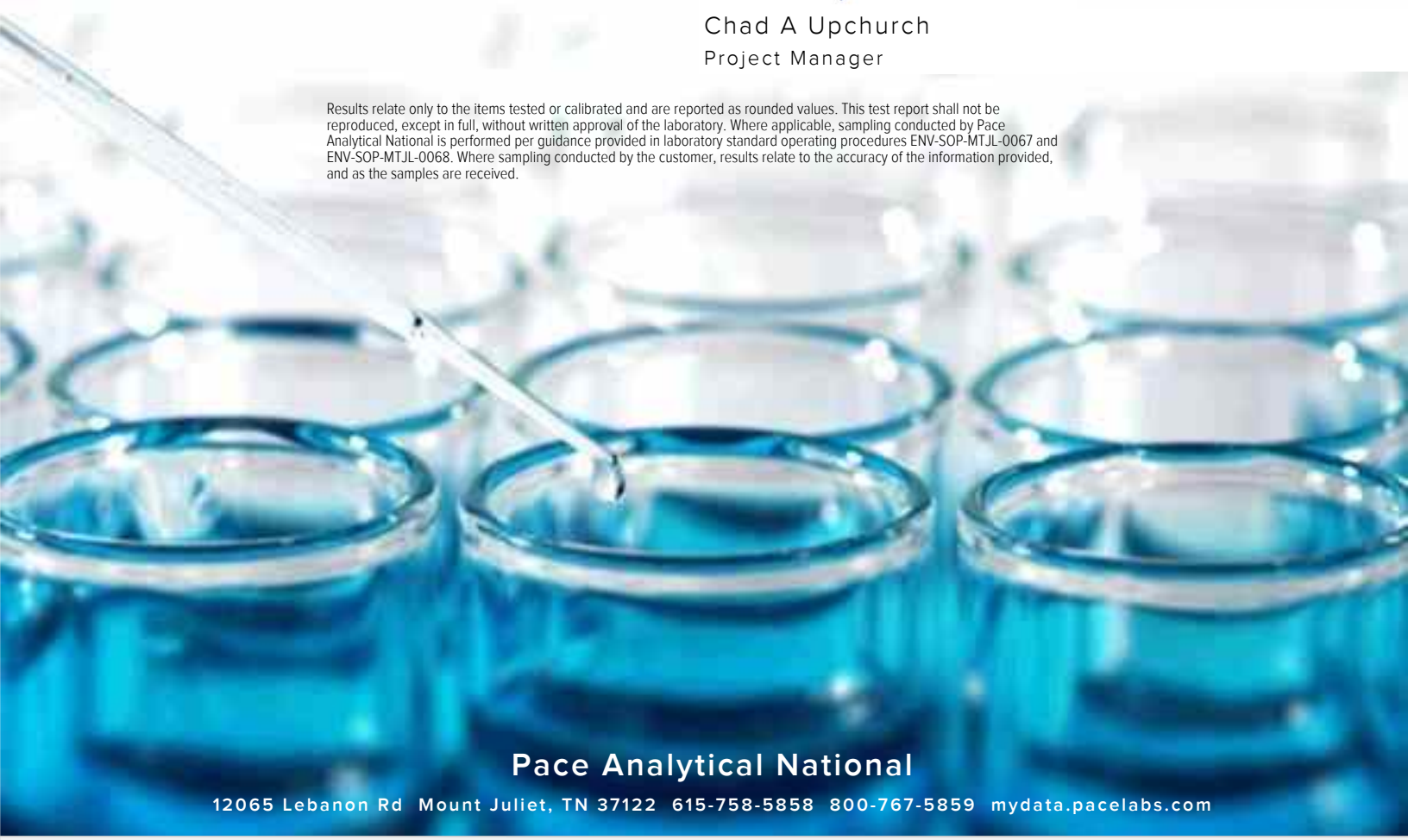
Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1852386
Samples Received:	04/26/2025
Project Number:	500
Description:	Semi-Annual WWTP Leachate List 2
Site:	IA02
Report To:	Aaron Rebmann 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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Leachate Pond #1 L1852386-01

Collected by: Tim MacDonald | Collected date/time: 04/25/25 10:25 | Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Pesticides (GC) by Method EPA 608.3	WG2502547	1.18	05/01/25 00:09	05/01/25 16:22	MEW	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2505689	2.36	05/01/25 00:09	05/03/25 01:26	MEW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2502549	6.25	04/30/25 08:27	05/06/25 15:57	JCH	Mt. Juliet, TN

Leachate Pond #2 L1852386-02

Collected by: Tim MacDonald | Collected date/time: 04/25/25 10:55 | Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Pesticides (GC) by Method EPA 608.3	WG2502547	1.27	05/01/25 00:09	05/01/25 16:32	MEW	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2505689	2.54	05/01/25 00:09	05/03/25 01:35	MEW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2502549	25	04/30/25 08:27	05/06/25 17:02	JCH	Mt. Juliet, TN

Leachate Pond #4 L1852386-03

Collected by: Tim MacDonald | Collected date/time: 04/25/25 09:40 | Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Pesticides (GC) by Method EPA 608.3	WG2502547	1.18	05/01/25 00:09	05/01/25 15:43	IKH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2505689	2.36	05/01/25 00:09	05/03/25 01:43	MEW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2502549	1.08	04/30/25 08:27	05/13/25 02:32	MBE	Mt. Juliet, TN

Leachate Pond #3 L1852386-04

Collected by: Tim MacDonald | Collected date/time: 04/25/25 09:10 | Received date/time: 04/26/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Pesticides (GC) by Method EPA 608.3	WG2502547	1.28	05/01/25 00:09	05/01/25 15:53	IKH	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2505689	2.56	05/01/25 00:09	05/03/25 01:52	MEW	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2502549	1.3	04/30/25 08:27	05/13/25 02:53	MBE	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Project Comments

Dilution due to sulfur cleanup. L1852386-01, L1852386-02, L1852386-03

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Pesticides (GC) by Method EPA 608.3

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2502547	Decachlorobiphenyl	L1852386-01

Polychlorinated Biphenyls (GC) by Method EPA-608.3

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2505689	Decachlorobiphenyl	L1852386-01, 02, 03

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

The initial calibration verification standard (SSCV) associated with this data responded high.

Batch	Lab Sample ID	Analytes
WG2502549	L1852386-01	Hexachlorocyclopentadiene
WG2502549	L1852386-02	Hexachlorocyclopentadiene
WG2502549	L1852386-03	Hexachlorocyclopentadiene
WG2502549	L1852386-04	Hexachlorocyclopentadiene

Surrogate recovery cannot be used for control limit evaluation due to dilution.

Batch	Analyte	Lab Sample ID
WG2502549	2-Fluorobiphenyl	L1852386-02
WG2502549	Nitrobenzene-d5	L1852386-02
WG2502549	p-Terphenyl-d14	L1852386-02

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2502549	(MS) R4213333-1, (MSD) R4213333-2	2-Chloronaphthalene, Fluorene, Phenanthrene and Pyrene

Pesticides (GC) by Method EPA 608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
4,4-DDD	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
4,4-DDE	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
4,4-DDT	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Aldrin	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Beta BHC	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Chlordane	ND		0.000500	1.18	05/01/2025 16:22	WG2502547
Delta BHC	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Dieldrin	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Endosulfan I	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Endosulfan II	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Endosulfan sulfate	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Endrin	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Endrin aldehyde	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Gamma BHC	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Heptachlor	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Heptachlor epoxide	ND		0.0000500	1.18	05/01/2025 16:22	WG2502547
Toxaphene	ND		0.000500	1.18	05/01/2025 16:22	WG2502547
(S) Tetrachloro-m-xylene	*16.0*			*10.0-135*	*05/01/2025 16:22*	WG2502547
(S) Decachlorobiphenyl	*6.38*	J2		*10.0-144*	*05/01/2025 16:22*	WG2502547

Sample Narrative:

L1852386-01 WG2502547: Sample produced heavy emulsion during Extraction process, low surr/spike recoveries due to matrix

Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000500	2.36	05/03/2025 01:26	WG2505689
PCB 1221	ND		0.000500	2.36	05/03/2025 01:26	WG2505689
PCB 1232	ND		0.000500	2.36	05/03/2025 01:26	WG2505689
PCB 1242	ND		0.000500	2.36	05/03/2025 01:26	WG2505689
PCB 1248	ND		0.000500	2.36	05/03/2025 01:26	WG2505689
PCB 1254	ND		0.000500	2.36	05/03/2025 01:26	WG2505689
PCB 1260	ND		0.000500	2.36	05/03/2025 01:26	WG2505689
(S) Tetrachloro-m-xylene	*19.5*			*10.0-135*	*05/03/2025 01:26*	WG2505689
(S) Decachlorobiphenyl	*6.82*	J2		*10.0-144*	*05/03/2025 01:26*	WG2505689

Sample Narrative:

L1852386-01 WG2505689: Sample produced heavy emulsion during Extraction process, low surr/spike recoveries due to matrix

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
1,2-Dichlorobenzene	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
1,3-Dichlorobenzene	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
1,4-Dichlorobenzene	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
2,4-Dinitrotoluene	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
2,6-Dinitrotoluene	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
2-Chloronaphthalene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549
3,3-Dichlorobenzidine	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
4-Bromophenyl-phenylether	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
4-Chlorophenyl-phenylether	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
Acenaphthene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549
Acenaphthylene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549
Anthracene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Benzo(a)anthracene	ND		0.00124	6.25	05/06/2025 15:57	WG2502549
Benzo(a)pyrene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549
Benzo(b)fluoranthene	0.00105		0.00100	6.25	05/06/2025 15:57	WG2502549
Benzo(g,h,i)perylene	0.00115		0.00100	6.25	05/06/2025 15:57	WG2502549
Benzo(k)fluoranthene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549
Benzyl alcohol	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
Benzylbutyl phthalate	ND		0.00478	6.25	05/06/2025 15:57	WG2502549
Bis(2-Ethylhexyl)phthalate	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
Bis(2-chlorethoxy)methane	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
Bis(2-chloroethyl)ether	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
Chrysene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549
Di-n-butyl phthalate	ND		0.00300	6.25	05/06/2025 15:57	WG2502549
Di-n-octyl phthalate	0.0112		0.00583	6.25	05/06/2025 15:57	WG2502549
Dibenz(a,h)anthracene	0.00100		0.00100	6.25	05/06/2025 15:57	WG2502549
Dibenzofuran	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
Diethyl phthalate	0.0780		0.00300	6.25	05/06/2025 15:57	WG2502549
Dimethyl phthalate	0.00426		0.00300	6.25	05/06/2025 15:57	WG2502549
Fluoranthene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549
Fluorene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549
Hexachloro-1,3-butadiene	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
Hexachlorobenzene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549
Hexachlorocyclopentadiene	ND	C7	0.0100	6.25	05/06/2025 15:57	WG2502549
Hexachloroethane	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
Indeno(1,2,3-cd)pyrene	ND		0.00174	6.25	05/06/2025 15:57	WG2502549
Isophorone	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
Naphthalene	ND		0.00232	6.25	05/06/2025 15:57	WG2502549
Nitrobenzene	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
Phenanthrene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549
Pyrene	ND		0.00100	6.25	05/06/2025 15:57	WG2502549
n-Nitrosodi-n-propylamine	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
n-Nitrosodiphenylamine	ND		0.0148	6.25	05/06/2025 15:57	WG2502549
2,2-Oxybis(1-Chloropropane)	ND		0.0100	6.25	05/06/2025 15:57	WG2502549
(S) Nitrobenzene-d5	*59.0*			*15.0-314*	*05/06/2025 15:57*	WG2502549
(S) 2-Fluorobiphenyl	*52.1*			*22.0-127*	*05/06/2025 15:57*	WG2502549
(S) p-Terphenyl-d14	*59.1*			*29.0-141*	*05/06/2025 15:57*	WG2502549

Sample Narrative:

L1852386-01 WG2502549: Dilution due to matrix.

Pesticides (GC) by Method EPA 608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
4,4-DDD	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
4,4-DDE	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
4,4-DDT	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Aldrin	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Beta BHC	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Chlordane	ND		0.000500	1.27	05/01/2025 16:32	WG2502547
Delta BHC	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Dieldrin	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Endosulfan I	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Endosulfan II	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Endosulfan sulfate	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Endrin	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Endrin aldehyde	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Gamma BHC	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Heptachlor	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Heptachlor epoxide	ND		0.0000500	1.27	05/01/2025 16:32	WG2502547
Toxaphene	ND		0.000500	1.27	05/01/2025 16:32	WG2502547
(S) Tetrachloro-m-xylene	*12.6*			*10.0-135*	*05/01/2025 16:32*	WG2502547
(S) Decachlorobiphenyl	*10.1*			*10.0-144*	*05/01/2025 16:32*	WG2502547

Sample Narrative:

L1852386-02 WG2502547: Sample produced heavy emulsion during Extraction process, low surr/spike recoveries due to matrix

Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000500	2.54	05/03/2025 01:35	WG2505689
PCB 1221	ND		0.000500	2.54	05/03/2025 01:35	WG2505689
PCB 1232	ND		0.000500	2.54	05/03/2025 01:35	WG2505689
PCB 1242	ND		0.000500	2.54	05/03/2025 01:35	WG2505689
PCB 1248	ND		0.000500	2.54	05/03/2025 01:35	WG2505689
PCB 1254	ND		0.000500	2.54	05/03/2025 01:35	WG2505689
PCB 1260	ND		0.000500	2.54	05/03/2025 01:35	WG2505689
(S) Tetrachloro-m-xylene	*10.5*			*10.0-135*	*05/03/2025 01:35*	WG2505689
(S) Decachlorobiphenyl	*2.34*	J2		*10.0-144*	*05/03/2025 01:35*	WG2505689

Sample Narrative:

L1852386-02 WG2505689: Sample produced heavy emulsion during Extraction process, low surr/spike recoveries due to matrix

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.0100	25	05/06/2025 17:02	WG2502549
1,2-Dichlorobenzene	ND		0.0100	25	05/06/2025 17:02	WG2502549
1,3-Dichlorobenzene	ND		0.0100	25	05/06/2025 17:02	WG2502549
1,4-Dichlorobenzene	ND		0.0100	25	05/06/2025 17:02	WG2502549
2,4-Dinitrotoluene	ND		0.0100	25	05/06/2025 17:02	WG2502549
2,6-Dinitrotoluene	ND		0.0100	25	05/06/2025 17:02	WG2502549
2-Chloronaphthalene	ND		0.00162	25	05/06/2025 17:02	WG2502549
3,3-Dichlorobenzidine	ND		0.0100	25	05/06/2025 17:02	WG2502549
4-Bromophenyl-phenylether	ND		0.0100	25	05/06/2025 17:02	WG2502549
4-Chlorophenyl-phenylether	ND		0.0100	25	05/06/2025 17:02	WG2502549
Acenaphthene	ND		0.00222	25	05/06/2025 17:02	WG2502549
Acenaphthylene	ND		0.00230	25	05/06/2025 17:02	WG2502549
Anthracene	ND		0.00201	25	05/06/2025 17:02	WG2502549

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Benzo(a)anthracene	ND		0.00498	25	05/06/2025 17:02	WG2502549
Benzo(a)pyrene	ND		0.00100	25	05/06/2025 17:02	WG2502549
Benzo(b)fluoranthene	ND		0.00325	25	05/06/2025 17:02	WG2502549
Benzo(g,h,i)perylene	ND		0.00303	25	05/06/2025 17:02	WG2502549
Benzo(k)fluoranthene	ND		0.00300	25	05/06/2025 17:02	WG2502549
Benzyl alcohol	0.0372		0.0141	25	05/06/2025 17:02	WG2502549
Benzylbutyl phthalate	ND		0.0191	25	05/06/2025 17:02	WG2502549
Bis(2-Ethylhexyl)phthalate	ND		0.0224	25	05/06/2025 17:02	WG2502549
Bis(2-chlorethoxy)methane	ND		0.0100	25	05/06/2025 17:02	WG2502549
Bis(2-chloroethyl)ether	ND		0.0100	25	05/06/2025 17:02	WG2502549
Chrysene	ND		0.00325	25	05/06/2025 17:02	WG2502549
Di-n-butyl phthalate	ND		0.0113	25	05/06/2025 17:02	WG2502549
Di-n-octyl phthalate	ND		0.0233	25	05/06/2025 17:02	WG2502549
Dibenz(a,h)anthracene	ND		0.00161	25	05/06/2025 17:02	WG2502549
Dibenzofuran	ND		0.0100	25	05/06/2025 17:02	WG2502549
Diethyl phthalate	0.190		0.00717	25	05/06/2025 17:02	WG2502549
Dimethyl phthalate	0.00740		0.00650	25	05/06/2025 17:02	WG2502549
Fluoranthene	ND		0.00255	25	05/06/2025 17:02	WG2502549
Fluorene	ND		0.00211	25	05/06/2025 17:02	WG2502549
Hexachloro-1,3-butadiene	ND		0.0100	25	05/06/2025 17:02	WG2502549
Hexachlorobenzene	ND		0.00189	25	05/06/2025 17:02	WG2502549
Hexachlorocyclopentadiene	ND	C7	0.0100	25	05/06/2025 17:02	WG2502549
Hexachloroethane	ND		0.0100	25	05/06/2025 17:02	WG2502549
Indeno(1,2,3-cd)pyrene	ND		0.00698	25	05/06/2025 17:02	WG2502549
Isophorone	ND		0.0100	25	05/06/2025 17:02	WG2502549
Naphthalene	ND		0.00930	25	05/06/2025 17:02	WG2502549
Nitrobenzene	ND		0.0100	25	05/06/2025 17:02	WG2502549
Phenanthrene	ND		0.00280	25	05/06/2025 17:02	WG2502549
Pyrene	ND		0.00268	25	05/06/2025 17:02	WG2502549
n-Nitrosodi-n-propylamine	ND		0.0100	25	05/06/2025 17:02	WG2502549
n-Nitrosodiphenylamine	ND		0.0593	25	05/06/2025 17:02	WG2502549
2,2-Oxybis(1-Chloropropane)	ND		0.0100	25	05/06/2025 17:02	WG2502549
(S) Nitrobenzene-d5	*47.6*	J7		*15.0-314*	*05/06/2025 17:02*	WG2502549
(S) 2-Fluorobiphenyl	*46.2*	J7		*22.0-127*	*05/06/2025 17:02*	WG2502549
(S) p-Terphenyl-d14	*54.0*	J7		*29.0-141*	*05/06/2025 17:02*	WG2502549

Sample Narrative:

L1852386-02 WG2502549: Dilution due to matrix.

Pesticides (GC) by Method EPA 608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
4,4-DDD	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
4,4-DDE	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
4,4-DDT	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Aldrin	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Beta BHC	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Chlordane	ND		0.000500	1.18	05/01/2025 15:43	WG2502547
Delta BHC	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Dieldrin	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Endosulfan I	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Endosulfan II	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Endosulfan sulfate	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Endrin	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Endrin aldehyde	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Gamma BHC	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Heptachlor	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Heptachlor epoxide	ND		0.0000500	1.18	05/01/2025 15:43	WG2502547
Toxaphene	ND		0.000500	1.18	05/01/2025 15:43	WG2502547
(S) Tetrachloro-m-xylene	*17.9*			*10.0-135*	*05/01/2025 15:43*	WG2502547
(S) Decachlorobiphenyl	*14.1*			*10.0-144*	*05/01/2025 15:43*	WG2502547

Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000500	2.36	05/03/2025 01:43	WG2505689
PCB 1221	ND		0.000500	2.36	05/03/2025 01:43	WG2505689
PCB 1232	ND		0.000500	2.36	05/03/2025 01:43	WG2505689
PCB 1242	ND		0.000500	2.36	05/03/2025 01:43	WG2505689
PCB 1248	ND		0.000500	2.36	05/03/2025 01:43	WG2505689
PCB 1254	ND		0.000500	2.36	05/03/2025 01:43	WG2505689
PCB 1260	ND		0.000500	2.36	05/03/2025 01:43	WG2505689
(S) Tetrachloro-m-xylene	*19.2*			*10.0-135*	*05/03/2025 01:43*	WG2505689
(S) Decachlorobiphenyl	*4.96*	J2		*10.0-144*	*05/03/2025 01:43*	WG2505689

Sample Narrative:

L1852386-03 WG2505689: Sample produced emulsion during Extraction process, low surr/spike recoveries due to matrix.

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
1,2-Dichlorobenzene	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
1,3-Dichlorobenzene	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
1,4-Dichlorobenzene	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
2,4-Dinitrotoluene	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
2,6-Dinitrotoluene	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
2-Chloronaphthalene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
3,3-Dichlorobenzidine	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
4-Bromophenyl-phenylether	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
4-Chlorophenyl-phenylether	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
Acenaphthene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Acenaphthylene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Anthracene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Benzo(a)anthracene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Benzo(a)pyrene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Benzo(b)fluoranthene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Benzo(k)fluoranthene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Benzyl alcohol	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
Benzylbutyl phthalate	ND		0.00300	1.08	05/13/2025 02:32	WG2502549
Bis(2-Ethylhexyl)phthalate	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
Bis(2-chlorethoxy)methane	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
Bis(2-chloroethyl)ether	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
Chrysene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Di-n-butyl phthalate	ND		0.00300	1.08	05/13/2025 02:32	WG2502549
Di-n-octyl phthalate	ND		0.00300	1.08	05/13/2025 02:32	WG2502549
Dibenz(a,h)anthracene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Dibenzofuran	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
Diethyl phthalate	ND		0.00300	1.08	05/13/2025 02:32	WG2502549
Dimethyl phthalate	ND		0.00300	1.08	05/13/2025 02:32	WG2502549
Fluoranthene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Fluorene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Hexachloro-1,3-butadiene	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
Hexachlorobenzene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Hexachlorocyclopentadiene	ND	C7	0.0100	1.08	05/13/2025 02:32	WG2502549
Hexachloroethane	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
Indeno(1,2,3-cd)pyrene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Isophorone	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
Naphthalene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Nitrobenzene	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
Phenanthrene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
Pyrene	ND		0.00100	1.08	05/13/2025 02:32	WG2502549
n-Nitrosodi-n-propylamine	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
n-Nitrosodiphenylamine	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
2,2-Oxybis(1-Chloropropane)	ND		0.0100	1.08	05/13/2025 02:32	WG2502549
(S) Nitrobenzene-d5	*69.6*			*15.0-314*	*05/13/2025 02:32*	WG2502549
(S) 2-Fluorobiphenyl	*66.7*			*22.0-127*	*05/13/2025 02:32*	WG2502549
(S) p-Terphenyl-d14	*58.0*			*29.0-141*	*05/13/2025 02:32*	WG2502549

Pesticides (GC) by Method EPA 608.3

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
4,4-DDD	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
4,4-DDE	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
4,4-DDT	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Aldrin	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Beta BHC	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Chlordane	ND		0.000500	1.28	05/01/2025 15:53	WG2502547
Delta BHC	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Dieldrin	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Endosulfan I	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Endosulfan II	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Endosulfan sulfate	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Endrin	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Endrin aldehyde	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Gamma BHC	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Heptachlor	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Heptachlor epoxide	ND		0.0000500	1.28	05/01/2025 15:53	WG2502547
Toxaphene	ND		0.000500	1.28	05/01/2025 15:53	WG2502547
(S) Tetrachloro-m-xylene	*33.4*			*10.0-135*	*05/01/2025 15:53*	WG2502547
(S) Decachlorobiphenyl	*21.2*			*10.0-144*	*05/01/2025 15:53*	WG2502547

Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
PCB 1016	ND		0.000500	2.56	05/03/2025 01:52	WG2505689
PCB 1221	ND		0.000500	2.56	05/03/2025 01:52	WG2505689
PCB 1232	ND		0.000500	2.56	05/03/2025 01:52	WG2505689
PCB 1242	ND		0.000500	2.56	05/03/2025 01:52	WG2505689
PCB 1248	ND		0.000500	2.56	05/03/2025 01:52	WG2505689
PCB 1254	ND		0.000500	2.56	05/03/2025 01:52	WG2505689
PCB 1260	ND		0.000500	2.56	05/03/2025 01:52	WG2505689
(S) Tetrachloro-m-xylene	*39.1*			*10.0-135*	*05/03/2025 01:52*	WG2505689
(S) Decachlorobiphenyl	*15.3*			*10.0-144*	*05/03/2025 01:52*	WG2505689

Sample Narrative:

L1852386-04 WG2505689: Dilution due to sulfur cleanup.

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
1,2,4-Trichlorobenzene	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
1,2-Dichlorobenzene	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
1,3-Dichlorobenzene	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
1,4-Dichlorobenzene	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
2,4-Dinitrotoluene	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
2,6-Dinitrotoluene	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
2-Chloronaphthalene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
3,3-Dichlorobenzidine	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
4-Bromophenyl-phenylether	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
4-Chlorophenyl-phenylether	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
Acenaphthene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Acenaphthylene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Anthracene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Benzo(a)anthracene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Benzo(a)pyrene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Benzo(b)fluoranthene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Benzo(k)fluoranthene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Benzyl alcohol	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
Benzylbutyl phthalate	ND		0.00300	1.3	05/13/2025 02:53	WG2502549
Bis(2-Ethylhexyl)phthalate	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
Bis(2-chlorethoxy)methane	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
Bis(2-chloroethyl)ether	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
Chrysene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Di-n-butyl phthalate	ND		0.00300	1.3	05/13/2025 02:53	WG2502549
Di-n-octyl phthalate	ND		0.00300	1.3	05/13/2025 02:53	WG2502549
Dibenz(a,h)anthracene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Dibenzofuran	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
Diethyl phthalate	ND		0.00300	1.3	05/13/2025 02:53	WG2502549
Dimethyl phthalate	ND		0.00300	1.3	05/13/2025 02:53	WG2502549
Fluoranthene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Fluorene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Hexachloro-1,3-butadiene	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
Hexachlorobenzene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Hexachlorocyclopentadiene	ND	C7	0.0100	1.3	05/13/2025 02:53	WG2502549
Hexachloroethane	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
Indeno(1,2,3-cd)pyrene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Isophorone	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
Naphthalene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Nitrobenzene	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
Phenanthrene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
Pyrene	ND		0.00100	1.3	05/13/2025 02:53	WG2502549
n-Nitrosodi-n-propylamine	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
n-Nitrosodiphenylamine	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
2,2-Oxybis(1-Chloropropane)	ND		0.0100	1.3	05/13/2025 02:53	WG2502549
(S) Nitrobenzene-d5	*62.8*			*15.0-314*	*05/13/2025 02:53*	WG2502549
(S) 2-Fluorobiphenyl	*66.5*			*22.0-127*	*05/13/2025 02:53*	WG2502549
(S) p-Terphenyl-d14	*67.5*			*29.0-141*	*05/13/2025 02:53*	WG2502549

Method Blank (MB)

(MB) R4208625-1 05/01/25 14:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
4,4-DDD	ND		0.0000170	0.0000500
4,4-DDE	ND		0.0000164	0.0000500
4,4-DDT	ND		0.0000177	0.0000500
Aldrin	ND		0.00000813	0.0000500
Beta BHC	ND		0.0000184	0.0000500
Chlordane	ND		0.0000977	0.000500
Delta BHC	ND		0.0000197	0.0000500
Dieldrin	ND		0.00000751	0.0000500
Endosulfan I	ND		0.0000179	0.0000500
Endosulfan II	ND		0.0000176	0.0000500
Endosulfan sulfate	ND		0.0000196	0.0000500
Endrin	ND		0.0000189	0.0000500
Endrin aldehyde	ND		0.0000142	0.0000500
Gamma BHC	ND		0.0000176	0.0000500
Heptachlor	ND		0.0000108	0.0000500
Heptachlor epoxide	ND		0.0000175	0.0000500
Toxaphene	ND		0.000168	0.000500
(S) Tetrachloro-m-xylene	*73.6*			*10.0-135*
(S) Decachlorobiphenyl	*65.5*			*10.0-144*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4208625-4 05/01/25 14:16 • (LCSD) R4208625-5 05/01/25 14:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4,4-DDD	0.00100	0.000962	0.000993	96.2	99.3	31.0-141			3.17	39
4,4-DDE	0.00100	0.000855	0.000876	85.5	87.6	30.0-145			2.43	35
4,4-DDT	0.00100	0.000887	0.000926	88.7	92.6	25.0-160			4.30	42
Aldrin	0.00100	0.000711	0.000821	71.1	82.1	42.0-140			14.4	35
Beta BHC	0.00100	0.000967	0.000954	96.7	95.4	17.0-147			1.35	44
Delta BHC	0.00100	0.000985	0.000949	98.5	94.9	19.0-140			3.72	52
Dieldrin	0.00100	0.000917	0.000925	91.7	92.5	36.0-146			0.869	49
Endosulfan I	0.00100	0.000978	0.000974	97.8	97.4	45.0-153			0.410	28
Endosulfan II	0.00100	0.000927	0.000946	92.7	94.6	1.00-202			2.03	53
Endosulfan sulfate	0.00100	0.000887	0.000908	88.7	90.8	26.0-144			2.34	38
Endrin	0.00100	0.000931	0.000945	93.1	94.5	30.0-147			1.49	48
Endrin aldehyde	0.00100	0.000852	0.000857	85.2	85.7	56.0-128			0.585	20
Gamma BHC	0.00100	0.00102	0.000996	102	99.6	32.0-140			2.38	39
Heptachlor	0.00100	0.000782	0.000891	78.2	89.1	34.0-140			13.0	43

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4208625-4 05/01/25 14:16 • (LCSD) R4208625-5 05/01/25 14:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Heptachlor epoxide	0.00100	0.000940	0.000945	94.0	94.5	37.0-142			0.531	26
(S) Tetrachloro-m-xylene				*71.5*	*72.3*	*10.0-135*				
(S) Decachlorobiphenyl				*68.2*	*55.4*	*10.0-144*				

Method Blank (MB)

(MB) R4209409-1 05/03/25 00:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
PCB 1016	ND		0.000200	0.00100
PCB 1221	ND		0.000146	0.00100
PCB 1232	ND		0.0000840	0.00100
PCB 1242	ND		0.0000940	0.00100
PCB 1248	ND		0.000172	0.00100
PCB 1254	ND		0.0000940	0.00100
PCB 1260	ND		0.000240	0.00100
(S) Tetrachloro-m-xylene	*75.0*			*10.0-135*
(S) Decachlorobiphenyl	*55.4*			*10.0-144*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4209409-2 05/03/25 01:08 • (LCSD) R4209409-3 05/03/25 01:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1016	0.00250	0.00207	0.00148	82.8	59.2	50.0-140			33.2	36
PCB 1260	0.00250	0.00147	0.00111	58.8	44.4	8.00-140			27.9	38
(S) Tetrachloro-m-xylene				*75.0*	*55.3*	*10.0-135*				
(S) Decachlorobiphenyl				*20.3*	*29.3*	*10.0-144*				

Method Blank (MB)

(MB) R4208546-2 05/01/25 15:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,2,4-Trichlorobenzene	ND		0.0000698	0.0100
1,2-Dichlorobenzene	ND		0.0000713	0.0100
1,3-Dichlorobenzene	ND		0.000132	0.0100
1,4-Dichlorobenzene	ND		0.0000942	0.0100
2,4-Dinitrotoluene	ND		0.0000983	0.0100
2,6-Dinitrotoluene	ND		0.000250	0.0100
2-Chloronaphthalene	ND		0.0000648	0.00100
3,3-Dichlorobenzidine	ND		0.000212	0.0100
4-Bromophenyl-phenylether	ND		0.0000877	0.0100
4-Chlorophenyl-phenylether	ND		0.0000926	0.0100
Acenaphthene	ND		0.0000886	0.00100
Acenaphthylene	ND		0.0000921	0.00100
Anthracene	ND		0.0000804	0.00100
Benzo(a)anthracene	ND		0.000199	0.00100
Benzo(a)pyrene	ND		0.0000381	0.00100
Benzo(b)fluoranthene	ND		0.000130	0.00100
Benzo(g,h,i)perylene	ND		0.000121	0.00100
Benzo(k)fluoranthene	ND		0.000120	0.00100
Benzyl alcohol	ND		0.000563	0.0100
Benzylbutyl phthalate	ND		0.000765	0.00300
Bis(2-Ethylhexyl)phthalate	ND		0.000895	0.00300
Bis(2-chlorethoxy)methane	ND		0.000116	0.0100
Bis(2-chloroethyl)ether	ND		0.000137	0.0100
Chrysene	ND		0.000130	0.00100
Di-n-butyl phthalate	ND		0.000453	0.00300
Di-n-octyl phthalate	ND		0.000932	0.00300
Dibenz(a,h)anthracene	ND		0.0000644	0.00100
Dibenzofuran	ND		0.0000967	0.0100
Diethyl phthalate	ND		0.000287	0.00300
Dimethyl phthalate	ND		0.000260	0.00300
Fluoranthene	ND		0.000102	0.00100
Fluorene	ND		0.0000844	0.00100
Hexachloro-1,3-butadiene	ND		0.0000968	0.0100
Hexachlorobenzene	ND		0.0000755	0.00100
Hexachlorocyclopentadiene	ND		0.0000598	0.0100
Hexachloroethane	ND		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	ND		0.000279	0.00100
Isophorone	ND		0.000143	0.0100
Naphthalene	ND		0.000372	0.00100
Nitrobenzene	ND		0.000297	0.0100

Method Blank (MB)

(MB) R4208546-2 05/01/25 15:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phenanthrene	ND		0.000112	0.00100
Pyrene	ND		0.000107	0.00100
n-Nitrosodi-n-propylamine	ND		0.000261	0.0100
n-Nitrosodiphenylamine	ND		0.00237	0.0100
2,2-Oxybis(1-Chloropropane)	ND		0.000210	0.0100
(S) Nitrobenzene-d5	*49.5*			*15.0-314*
(S) 2-Fluorobiphenyl	*49.7*			*22.0-127*
(S) p-Terphenyl-d14	*57.3*			*29.0-141*

Laboratory Control Sample (LCS)

(LCS) R4208546-1 05/01/25 15:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4-Trichlorobenzene	0.0500	0.0291	58.2	44.0-142	
1,2-Dichlorobenzene	0.0500	0.0299	59.8	27.0-120	
1,3-Dichlorobenzene	0.0500	0.0292	58.4	26.0-120	
1,4-Dichlorobenzene	0.0500	0.0304	60.8	26.0-120	
2,4-Dinitrotoluene	0.0500	0.0439	87.8	39.0-139	
2,6-Dinitrotoluene	0.0500	0.0388	77.6	50.0-158	
2-Chloronaphthalene	0.0500	0.0314	62.8	60.0-120	
3,3-Dichlorobenzidine	0.100	0.0737	73.7	1.00-262	
4-Bromophenyl-phenylether	0.0500	0.0358	71.6	53.0-127	
4-Chlorophenyl-phenylether	0.0500	0.0398	79.6	25.0-158	
Acenaphthene	0.0500	0.0343	68.6	47.0-145	
Acenaphthylene	0.0500	0.0381	76.2	33.0-145	
Anthracene	0.0500	0.0346	69.2	27.0-133	
Benzo(a)anthracene	0.0500	0.0366	73.2	33.0-143	
Benzo(a)pyrene	0.0500	0.0327	65.4	17.0-163	
Benzo(b)fluoranthene	0.0500	0.0343	68.6	24.0-159	
Benzo(g,h,i)perylene	0.0500	0.0354	70.8	1.00-219	
Benzo(k)fluoranthene	0.0500	0.0348	69.6	11.0-162	
Benzyl alcohol	0.0500	0.0219	43.8	20.0-120	
Benzylbutyl phthalate	0.0500	0.0344	68.8	1.00-152	
Bis(2-Ethylhexyl)phthalate	0.0500	0.0341	68.2	8.00-158	
Bis(2-chlorethoxy)methane	0.0500	0.0290	58.0	1.00-219	
Bis(2-chloroethyl)ether	0.0500	0.0294	58.8	33.0-185	
Chrysene	0.0500	0.0345	69.0	17.0-168	
Di-n-butyl phthalate	0.0500	0.0425	85.0	1.00-120	

Laboratory Control Sample (LCS)

(LCS) R4208546-1 05/01/25 15:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Di-n-octyl phthalate	0.0500	0.0368	73.6	4.00-146	
Dibenz(a,h)anthracene	0.0500	0.0383	76.6	1.00-227	
Dibenzofuran	0.0500	0.0359	71.8	42.0-120	
Diethyl phthalate	0.0500	0.0434	86.8	1.00-120	
Dimethyl phthalate	0.0500	0.0411	82.2	1.00-120	
Fluoranthene	0.0500	0.0429	85.8	26.0-137	
Fluorene	0.0500	0.0371	74.2	59.0-121	
Hexachloro-1,3-butadiene	0.0500	0.0265	53.0	24.0-120	
Hexachlorobenzene	0.0500	0.0348	69.6	1.00-152	
Hexachlorocyclopentadiene	0.0500	0.0171	34.2	10.0-120	
Hexachloroethane	0.0500	0.0291	58.2	40.0-120	
Indeno(1,2,3-cd)pyrene	0.0500	0.0326	65.2	1.00-171	
Isophorone	0.0500	0.0317	63.4	21.0-196	
Naphthalene	0.0500	0.0279	55.8	21.0-133	
Nitrobenzene	0.0500	0.0287	57.4	35.0-180	
Phenanthrene	0.0500	0.0332	66.4	54.0-120	
Pyrene	0.0500	0.0316	63.2	52.0-120	
n-Nitrosodi-n-propylamine	0.0500	0.0346	69.2	1.00-230	
n-Nitrosodiphenylamine	0.0500	0.0339	67.8	44.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0331	66.2	36.0-166	
(S) Nitrobenzene-d5			*60.7*	*15.0-314*	
(S) 2-Fluorobiphenyl			*71.0*	*22.0-127*	
(S) p-Terphenyl-d14			*74.8*	*29.0-141*	

L1853018-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853018-01 05/09/25 16:54 • (MS) R4213333-1 05/09/25 17:16 • (MSD) R4213333-2 05/09/25 17:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,4-Trichlorobenzene	0.0500	ND	0.0242	0.0224	48.4	44.8	1	44.0-142			7.73	50
1,2-Dichlorobenzene	0.0500	ND	0.0235	0.0219	47.0	43.8	1	14.0-125			7.05	24
1,3-Dichlorobenzene	0.0500	ND	0.0227	0.0207	45.4	41.4	1	12.0-123			9.22	22
1,4-Dichlorobenzene	0.0500	ND	0.0237	0.0221	47.4	44.2	1	12.0-125			6.99	23
2,4-Dinitrotoluene	0.0500	ND	0.0347	0.0323	69.4	64.6	1	39.0-139			7.16	42
2,6-Dinitrotoluene	0.0500	ND	0.0322	0.0294	64.4	58.8	1	50.0-158			9.09	48
2-Chloronaphthalene	0.0500	ND	0.0252	0.0227	50.4	45.4	1	60.0-120	J6	J6	10.4	24
3,3-Dichlorobenzidine	0.100	ND	0.0512	0.0495	51.2	49.5	1	1.00-262			3.38	108
4-Bromophenyl-phenylether	0.0500	ND	0.0305	0.0277	61.0	55.4	1	53.0-127			9.62	43
4-Chlorophenyl-phenylether	0.0500	ND	0.0314	0.0288	62.8	57.6	1	25.0-158			8.64	61

L1853018-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1853018-01 05/09/25 16:54 • (MS) R4213333-1 05/09/25 17:16 • (MSD) R4213333-2 05/09/25 17:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0500	ND	0.0266	0.0246	53.2	49.2	1	47.0-145			7.81	48
Acenaphthylene	0.0500	ND	0.0295	0.0272	59.0	54.4	1	33.0-145			8.11	74
Anthracene	0.0500	ND	0.0276	0.0251	55.2	50.2	1	27.0-133			9.49	66
Benzo(a)anthracene	0.0500	ND	0.0301	0.0282	60.2	56.4	1	33.0-143			6.52	53
Benzo(a)pyrene	0.0500	ND	0.0271	0.0253	54.2	50.6	1	17.0-163			6.87	72
Benzo(b)fluoranthene	0.0500	ND	0.0299	0.0272	59.8	54.4	1	24.0-159			9.46	71
Benzo(g,h,i)perylene	0.0500	ND	0.0298	0.0279	59.6	55.8	1	1.00-219			6.59	97
Benzo(k)fluoranthene	0.0500	ND	0.0284	0.0257	56.8	51.4	1	11.0-162			9.98	63
Benzyl alcohol	0.0500	ND	0.0261	0.0248	52.2	49.6	1	17.0-120			5.11	40
Benzylbutyl phthalate	0.0500	ND	0.0301	0.0277	60.2	55.4	1	1.00-152			8.30	60
Bis(2-Ethylhexyl)phthalate	0.0500	ND	0.0327	0.0283	49.3	40.5	1	8.00-158			14.4	82
Bis(2-chlorethoxy)methane	0.0500	ND	0.0252	0.0230	50.4	46.0	1	33.0-184			9.13	54
Bis(2-chloroethyl)ether	0.0500	ND	0.0244	0.0228	48.8	45.6	1	12.0-158			6.78	108
Chrysene	0.0500	ND	0.0275	0.0259	55.0	51.8	1	17.0-168			5.99	87
Di-n-butyl phthalate	0.0500	ND	0.0354	0.0317	70.8	63.4	1	1.00-120			11.0	47
Di-n-octyl phthalate	0.0500	ND	0.0311	0.0278	62.2	55.6	1	4.00-146			11.2	69
Dibenz(a,h)anthracene	0.0500	ND	0.0320	0.0296	64.0	59.2	1	1.00-227			7.79	126
Dibenzofuran	0.0500	ND	0.0278	0.0250	55.6	50.0	1	17.0-150			10.6	27
Diethyl phthalate	0.0500	ND	0.0356	0.0336	67.1	63.1	1	1.00-120			5.78	100
Dimethyl phthalate	0.0500	ND	0.0328	0.0306	64.6	60.2	1	1.00-120			6.94	183
Fluoranthene	0.0500	ND	0.0338	0.0308	67.6	61.6	1	26.0-137			9.29	66
Fluorene	0.0500	ND	0.0289	0.0263	57.8	52.6	1	59.0-121	J6	J6	9.42	38
Hexachloro-1,3-butadiene	0.0500	ND	0.0237	0.0216	47.4	43.2	1	24.0-120			9.27	62
Hexachlorobenzene	0.0500	ND	0.0293	0.0269	58.6	53.8	1	1.00-152			8.54	55
Hexachlorocyclopentadiene	0.0500	ND	0.0177	0.0141	35.4	28.2	1	10.0-146			22.6	34
Hexachloroethane	0.0500	ND	0.0250	0.0231	50.0	46.2	1	40.0-120			7.90	52
Indeno(1,2,3-cd)pyrene	0.0500	ND	0.0301	0.0273	60.2	54.6	1	1.00-171			9.76	99
Isophorone	0.0500	ND	0.0285	0.0268	57.0	53.6	1	21.0-196			6.15	93
Naphthalene	0.0500	ND	0.0229	0.0214	45.8	42.8	1	21.0-133			6.77	65
Nitrobenzene	0.0500	ND	0.0273	0.0252	54.6	50.4	1	35.0-180			8.00	62
Phenanthrene	0.0500	ND	0.0272	0.0247	54.4	49.4	1	54.0-120		J6	9.63	39
Pyrene	0.0500	ND	0.0270	0.0249	54.0	49.8	1	52.0-120		J6	8.09	49
n-Nitrosodi-n-propylamine	0.0500	ND	0.0334	0.0316	66.8	63.2	1	1.00-230			5.54	87
n-Nitrosodiphenylamine	0.0500	ND	0.0279	0.0254	55.8	50.8	1	16.0-160			9.38	28
2,2-Oxybis(1-Chloropropane)	0.0500	ND	0.0263	0.0224	52.6	44.8	1	36.0-166			16.0	76
(S) Nitrobenzene-d5					*56.1*	*52.7*		*15.0-314*				
(S) 2-Fluorobiphenyl					*57.4*	*50.0*		*22.0-127*				
(S) p-Terphenyl-d14					*66.4*	*59.2*		*29.0-141*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C7	The initial calibration verification standard (SSCV) associated with this data responded high.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Semi-Annual WWTP Leachate List 2

City/State Collected: Iowa

Please Circle: PT MT (CT) ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
500

Lab Project #
WMCENIA-00009

Collected by (print):
Tim MacDonald

Site/Facility ID #
IA02

P.O. #
13447373

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	608.3 100ml Amb-NoPres	625.1BN 100ml Amb-NaTio								Remarks	Sample # (lab only)
Leachate Pond #1	—	WW		4/25/25	1025	4	X	X									-01
Leachate Pond #2	—	WW			1055	4	X	X									-02
Leachate Pond #4	—	WW			0940	4	X	X									-03
Leachate Pond #3	—	WW			0910	4	X	X									-04

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 1852386

J242

Acctnum: **WMCENIA**
Template: **T237539**
Prelogin: **P1138927**
PM: **3564 - Chad A Upchurch**
PB: 3/19/25 mV
Shipped Via: **FedEx Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 4439 2445 1214

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	If preservation required by Login: Date/Time
Tim MacDonald Alliance-MSP	4/25/25	1200 hrs			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: TUR 905+04=0.9 18	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/26/25 Time: 0845	Hold: Condition: NCF / OK

ANALYTICAL REPORT

June 10, 2025

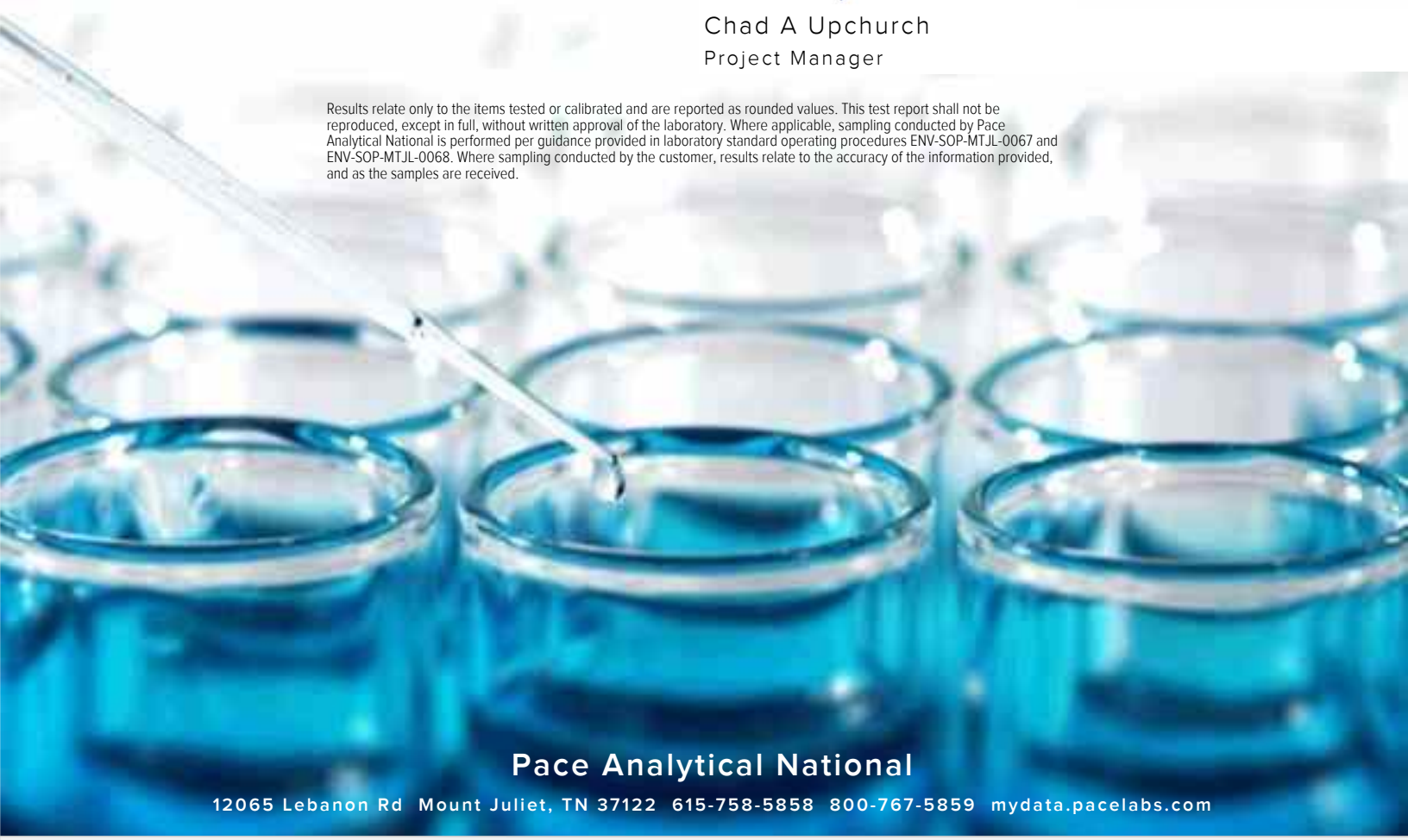
Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1864229
Samples Received:	05/30/2025
Project Number:	500
Description:	Leachate Pond Resample
Site:	IA02
Report To:	Aaron Rebmann 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

POND #1 L1864229-01

Collected by: Mike Hamer
Collected date/time: 05/29/25 13:00
Received date/time: 05/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 5210 B-2016	WG2527001	100	05/30/25 11:52	06/04/25 09:37	MEL	Mt. Juliet, TN

POND #2 L1864229-02

Collected by: Mike Hamer
Collected date/time: 05/29/25 13:15
Received date/time: 05/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 5210 B-2016	WG2527001	100	05/30/25 12:28	06/04/25 09:43	MEL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2531717	1	06/06/25 10:47	06/06/25 16:52	JTM	Mt. Juliet, TN

POND #4 L1864229-03

Collected by: Mike Hamer
Collected date/time: 05/29/25 13:30
Received date/time: 05/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010C	WG2531717	1	06/06/25 10:47	06/06/25 16:55	JTM	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Wet Chemistry by Method 5210 B-2016

The blank depletion was greater than the recommended maximum depletion of 0.2mg/L.

Batch	Lab Sample ID
WG2527001	L1864229-01, 02

Wet Chemistry by Method 5210 B-2016

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
BOD	1900	B1	1000	100	06/04/2025 09:37	WG2527001

Wet Chemistry by Method 5210 B-2016

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	2840	B1	1000	100	06/04/2025 09:43	WG2527001

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.0100	1	06/06/2025 16:52	WG2531717

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	0.0420		0.0100	1	06/06/2025 16:55	WG2531717

QUALITY CONTROL SUMMARY

L1864229-01,02

Method Blank (MB)

(MB) R4225506-1 06/04/25 08:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
BOD	0.260	B1	0.200	0.200

L1864074-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864074-01 06/04/25 09:11 • (DUP) R4225506-3 06/04/25 09:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	ND	ND	1	0		30

L1864259-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864259-01 06/04/25 09:46 • (DUP) R4225506-4 06/04/25 09:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	6.52	5.92	1	9.65		30

Laboratory Control Sample (LCS)

(LCS) R4225506-2 06/04/25 08:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	194	98	84.6-115	

Laboratory Control Sample (LCS)

(LCS) R4225506-5 06/04/25 10:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	185	93.4	84.6-115	

Method Blank (MB)

(MB) R4227025-1 06/06/25 16:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	ND		0.00650	0.0100

Laboratory Control Sample (LCS)

(LCS) R4227025-2 06/06/25 16:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	1.00	0.942	94.2	80.0-120	

L1866133-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1866133-06 06/06/25 16:40 • (MS) R4227025-4 06/06/25 16:46 • (MSD) R4227025-5 06/06/25 16:49

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	1.00	ND	0.972	0.986	97.2	98.6	1	75.0-125			1.37	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B1	The blank depletion was greater than the recommended maximum depletion of 0.2mg/L.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to: **Aaron Rebmann 763-479-5185**

Email To: **chris.kaiser@stantec.com;cory.anderson2@stan**

Project Description: **Leachate Pond Resample**

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # **500**

Lab Project # **WMCENIA-00003R**

Collected by (print): Mike Hunter

Site/Facility ID # **IA02**

P.O. # **14491265**

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	** BODLL ** 1L-HDPE-NoPres	ASICP 250mlHDPE-HNO3								Remarks	Sample # (lab only)
POND #1		GW		5/29/25	1300	1	X										-01
POND #2		GW			1315	2	X	X									-02
POND #4		GW			1330	1		X									-03

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # UR64229
A208

Acctnum: **WMCENIA**
Template: **T274702**
Prelogin: **P1155711**
PM: **3584 - Chad A Upchurch**
PB: 5/27/25 BK
Shipped Via: **FedEX Priority**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: ** BODLL = SHORT HOLD (48 HR) **

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 458063046356

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If pre	Time
	5/29/25	1800	FedEx	—	PH – 108DH2631 TRC – 3227A333	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1 °C Bottles Received: 4		
				0.1 to 0.4 -0.5		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5.30.25 Time: 0900	Hold:	Condition NCF / OK
			Devang			

5/30 L1864229 WMCENIA

R5

Time estimate: oh **Time spent:** oh

Members

Hailey Robertson (responsible) Nicolle Faulk CU Chad Upchurch

Due on *3 June 2025 8:00 AM* for target *Done*

- [ ] Parameter(s) past holding time
- [ ] Temperature not in range
- [ ] Improper container type
- [x] pH not in range
- [ ] Insufficient sample volume
- [ ] Sample is biphasic
- [ ] Vials received with headspace
- [ ] Broken container
- [ ] Sufficient sample remains
- [ ] If broken container: Insufficient packing material around container
- [ ] If broken container: Insufficient packing material inside cooler
- [ ] If broken container: Improper handling by carrier:_____
- [ ] If broken container: Sample was frozen
- [ ] If broken container: Container lid not intact
- [ ] Client informed by Call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Hailey Robertson *30 May 2025 9:41 AM*

Both metals containers were received out of pH range.

Chad Upchurch *30 May 2025 1:56 PM*

Samples collected in pre-preserved containers provided by the lab. The amount of preservative was not adequate to achieve or maintain the target pH. Send to lab for additional preservation and proceed with analysis.

Nicolle Faulk *30 May 2025 4:57 PM*

done

ANALYTICAL REPORT

August 22, 2025

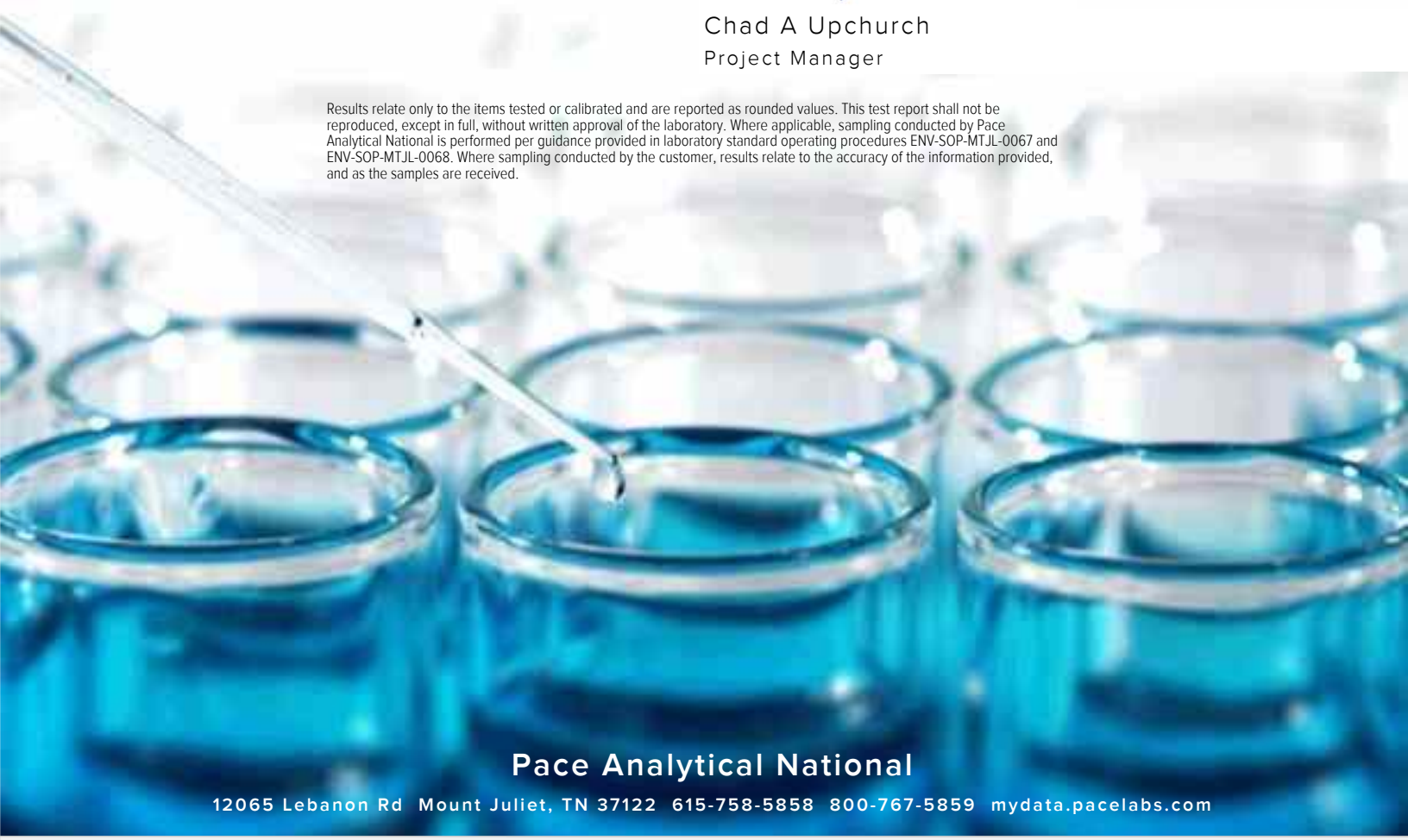
Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1881998
Samples Received:	07/25/2025
Project Number:	500
Description:	Qrtly WWTP-Leachate List 1(1,4,7,10)
Site:	IA02
Report To:	Aaron Rebmann 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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LEACHATE POND #1 L1881998-01

Collected by: Kenneth Smith | Collected date/time: 07/24/25 11:20 | Received date/time: 07/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2568193	1	08/03/25 20:24	08/03/25 20:24	AEC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2569263	1	07/31/25 11:06	07/31/25 11:09	BDC	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2570057	1	08/01/25 06:27	08/01/25 11:40	ANW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2569352	1	07/30/25 12:40	07/30/25 12:40	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2568350	200	07/30/25 00:42	07/30/25 00:42	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2570540	40	08/01/25 16:33	08/03/25 20:24	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2568193	10	07/30/25 20:49	07/30/25 20:49	RTW	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2568285	50	07/29/25 11:13	08/16/25 23:01	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2566448	10	07/25/25 14:15	07/30/25 11:09	DYA	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2566617	2	07/25/25 12:48	07/25/25 12:48	DAM	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2570817	1	08/01/25 16:32	08/01/25 21:30	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2572174	1	08/04/25 11:15	08/04/25 11:15	KCB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2566641	10	07/30/25 01:29	07/30/25 01:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2566641	50	07/30/25 01:43	07/30/25 01:43	ZSA	Mt. Juliet, TN
Mercury by Method 7470A	WG2566881	10	07/29/25 08:49	07/30/25 12:21	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2567957	1	07/30/25 13:40	07/30/25 19:30	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2567957	5	07/30/25 13:40	07/30/25 23:41	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2567203	10	07/26/25 21:01	07/26/25 21:01	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2568142	10	08/01/25 18:58	08/01/25 18:58	NCD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2568632	1	07/30/25 16:19	08/01/25 23:09	NJK	Mt. Juliet, TN

LEACHATE POND #1 L1881998-02

Collected by: Kenneth Smith | Collected date/time: 07/24/25 11:20 | Received date/time: 07/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2567414	1	07/28/25 11:09	07/28/25 11:09	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2568399	1	07/29/25 09:48	07/30/25 14:24	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2569985	1	07/31/25 08:17	07/31/25 12:06	JTM	Mt. Juliet, TN

LEACHATE POND #2 L1881998-03

Collected by: Kenneth Smith | Collected date/time: 07/24/25 11:30 | Received date/time: 07/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2568193	1	08/03/25 20:39	08/03/25 20:39	AEC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2569263	1	07/31/25 11:06	07/31/25 11:09	BDC	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2570057	1	08/01/25 06:27	08/01/25 11:40	ANW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2569352	1	07/30/25 12:45	07/30/25 12:45	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2568350	100	07/30/25 00:44	07/30/25 00:44	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2570540	80	08/01/25 16:33	08/03/25 20:39	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2568193	10	07/30/25 20:51	07/30/25 20:51	RTW	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2568285	100	07/29/25 11:13	08/16/25 23:03	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2566699	10	07/25/25 14:43	07/30/25 11:28	DYA	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2566617	2	07/25/25 12:48	07/25/25 12:48	DAM	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2570818	1	08/01/25 07:52	08/01/25 21:47	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2572174	1	08/04/25 11:15	08/04/25 11:15	KCB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2566641	10	07/30/25 01:56	07/30/25 01:56	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2566641	50	07/30/25 02:10	07/30/25 02:10	ZSA	Mt. Juliet, TN
Mercury by Method 7470A	WG2566881	10	07/29/25 08:49	07/30/25 12:35	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2567957	1	07/30/25 13:40	07/30/25 19:32	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2567957	5	07/30/25 13:40	07/30/25 23:43	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2567203	10	07/26/25 21:21	07/26/25 21:21	ACG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2568632	1	07/30/25 16:19	08/01/25 22:47	NJK	Mt. Juliet, TN

LEACHATE POND #2 L1881998-04

Collected by: Kenneth Smith | Collected date/time: 07/24/25 11:30 | Received date/time: 07/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2567414	1	07/28/25 13:39	07/28/25 13:39	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2568399	1	07/29/25 09:48	07/30/25 14:48	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2569985	1	07/31/25 08:17	07/31/25 12:07	JTM	Mt. Juliet, TN

LEACHATE POND #3 L1881998-05

Collected by: Kenneth Smith | Collected date/time: 07/24/25 10:40 | Received date/time: 07/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2568193	1	08/03/25 18:59	08/03/25 18:59	AEC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2569263	1	07/31/25 11:06	07/31/25 11:09	BDC	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2570057	1	08/01/25 06:27	08/01/25 11:40	ANW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2569352	1	07/30/25 12:50	07/30/25 12:50	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2568350	10	07/30/25 01:30	07/30/25 01:30	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2570540	4	08/01/25 16:33	08/03/25 18:59	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2568193	5	07/30/25 20:52	07/30/25 20:52	RTW	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2568285	50	07/29/25 11:13	08/16/25 23:04	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2566699	10	07/25/25 14:45	07/30/25 11:31	DYA	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2566617	1	07/25/25 12:49	07/25/25 12:49	DAM	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2570818	1	08/01/25 07:52	08/01/25 21:48	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2572174	1	08/04/25 11:15	08/04/25 11:15	KCB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2566641	10	07/30/25 02:36	07/30/25 02:36	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2566641	5	07/30/25 02:23	07/30/25 02:23	ZSA	Mt. Juliet, TN
Mercury by Method 7470A	WG2566881	1	07/29/25 08:49	07/30/25 12:38	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2567957	1	07/30/25 13:40	07/30/25 19:34	BAG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2570473	1	08/01/25 14:07	08/01/25 14:07	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2571430	1	08/02/25 10:29	08/02/25 10:29	JHH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2568632	1	07/30/25 16:19	08/01/25 22:26	NJK	Mt. Juliet, TN

LEACHATE POND #3 L1881998-06

Collected by: Kenneth Smith | Collected date/time: 07/24/25 10:40 | Received date/time: 07/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2567414	1	07/28/25 11:10	07/28/25 11:10	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2568399	1	07/29/25 09:48	07/30/25 14:34	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2569985	1	07/31/25 08:17	07/31/25 12:09	JTM	Mt. Juliet, TN

LEACHATE POND #4 L1881998-07

Collected by: Kenneth Smith | Collected date/time: 07/24/25 10:50 | Received date/time: 07/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2568193	1	08/03/25 20:34	08/03/25 20:34	AEC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2569263	1	07/31/25 11:06	07/31/25 11:09	BDC	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2570057	1	08/01/25 06:27	08/01/25 11:40	ANW	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2569352	1	07/30/25 13:07	07/30/25 13:07	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2568350	20	07/30/25 01:31	07/30/25 01:31	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2570540	20	08/01/25 16:33	08/03/25 20:34	AEC	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2568193	5	07/30/25 20:53	07/30/25 20:53	RTW	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2568285	100	07/29/25 11:13	08/16/25 23:06	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2566699	10	07/25/25 14:54	07/30/25 11:37	DYA	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2566617	2	07/25/25 12:59	07/25/25 12:59	DAM	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2571840	1	08/03/25 10:30	08/03/25 21:23	AEC	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2572174	1	08/04/25 11:15	08/04/25 11:15	KCB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2566641	10	07/30/25 02:50	07/30/25 02:50	ZSA	Mt. Juliet, TN

LEACHATE POND #4 L1881998-07

Collected by: Kenneth Smith
Collected date/time: 07/24/25 10:50
Received date/time: 07/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2566641	50	07/30/25 03:03	07/30/25 03:03	ZSA	Mt. Juliet, TN
Mercury by Method 7470A	WG2567459	1	07/29/25 19:22	07/31/25 15:33	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2567957	1	07/30/25 13:40	07/30/25 19:36	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2567957	5	07/30/25 13:40	07/30/25 23:45	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2570473	1	08/01/25 14:28	08/01/25 14:28	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2571430	1	08/02/25 10:50	08/02/25 10:50	JHH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2568632	1	07/30/25 16:19	08/01/25 23:30	NJK	Mt. Juliet, TN

LEACHATE POND #4 L1881998-08

Collected by: Kenneth Smith
Collected date/time: 07/24/25 10:50
Received date/time: 07/25/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2567414	1	07/28/25 11:09	07/28/25 11:09	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2568399	1	07/29/25 09:48	07/30/25 14:50	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2569985	1	07/31/25 08:17	07/31/25 12:11	JTM	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Sample Delivery Group (SDG) Narrative

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG2566617	7196A	L1881998-01, 03, 05, 07
WG2572174	9040C	L1881998-01, 03, 05, 07

The laboratory analysis was performed from an unpreserved, insufficiently or inadequately preserved sample.

Batch	Method	Lab Sample ID
WG2570057	1664B	L1881998-01, 03

Wet Chemistry by Method 353.2

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2568193	(MSD) R4251764-4	Nitrate-Nitrite

Wet Chemistry by Method 9012B

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2570817	(MS) R4253046-4	Cyanide
WG2570817	(MSD) R4253046-5	Cyanide

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2570817	(MS) R4253046-4, (MSD) R4253046-5	Cyanide

Wet Chemistry by Method 9056A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2566641	(MS) R4252115-7	Chloride

Metals (ICP) by Method 6010C

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2567957	(MS) R4251761-4, (MSD) R4251761-5	Calcium and Sodium

Volatile Organic Compounds (GC/MS) by Method 8260C

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2567203	L1881998-01	Chloroethane
WG2567203	L1881998-03	Chloroethane
WG2570473	L1881998-05	1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, Acetone, Bromoform, trans-1,4-Dichloro-2-butene and Vinyl acetate
WG2570473	L1881998-07	1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, Acetone, Bromoform, trans-1,4-Dichloro-2-butene and Vinyl acetate

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2567203	(LCS) R4250517-1, (LCSD) R4250517-2	43 analytes

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2568142	(LCSD) R4253016-2, L1881998-01	Acetone

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2568632	p-Terphenyl-d14	L1881998-07

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.19	su

Calculated Results

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Total Nitrogen	581		0.197	1	08/03/2025 20:24	WG2568193

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	88.0		4.00	1	07/31/2025 11:09	WG2569263

Wet Chemistry by Method 1664B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	5.24		5.00	1	08/01/2025 11:40	WG2570057

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	3250		20.0	1	07/30/2025 12:40	WG2569352
Alkalinity,Bicarbonate	3250		20.0	1	07/30/2025 12:40	WG2569352

Sample Narrative:

L1881998-01 WG2569352: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	413		6.34	200	07/30/2025 00:42	WG2568350

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	581		1.40	40	08/03/2025 20:24	WG2570540

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.197	10	07/30/2025 20:49	WG2568193

Sample Narrative:

L1881998-01 WG2568193: Dilution due to matrix.

Wet Chemistry by Method 365.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Phosphorus,Total	7.10		0.0500	50	08/16/2025 23:01	WG2568285

Wet Chemistry by Method 5210 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	470		100	10	07/30/2025 11:09	WG2566448

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND	T8	0.0100	2	07/25/2025 12:48	WG2566617

Wet Chemistry by Method 9012B

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.0100	1	08/01/2025 21:30	WG2570817

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.25	T8	1	08/04/2025 11:15	WG2572174

Sample Narrative:

L1881998-01 WG2572174: 8.25 at 18.4C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chloride	1720		2.60	50	07/30/2025 01:43	WG2566641
Sulfate	ND		5.00	10	07/30/2025 01:29	WG2566641

Sample Narrative:

L1881998-01 WG2566641: Dilution due to matrix impact on instrumentation at lower dilution

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000490	10	07/30/2025 12:21	WG2566881

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.0100	1	07/30/2025 19:30	WG2567957
Arsenic	0.0374		0.0100	1	07/30/2025 19:30	WG2567957
Barium	0.710		0.00500	1	07/30/2025 19:30	WG2567957
Beryllium	ND		0.00200	1	07/30/2025 19:30	WG2567957
Cadmium	ND		0.00200	1	07/30/2025 19:30	WG2567957
Calcium	182		1.00	1	07/30/2025 19:30	WG2567957
Chromium	0.0987		0.0100	1	07/30/2025 19:30	WG2567957
Cobalt	0.0230		0.0100	1	07/30/2025 19:30	WG2567957
Copper	ND		0.0100	1	07/30/2025 19:30	WG2567957
Lead	0.00570		0.00500	1	07/30/2025 19:30	WG2567957
Magnesium	118		1.00	1	07/30/2025 19:30	WG2567957
Molybdenum	ND		0.0100	1	07/30/2025 19:30	WG2567957
Nickel	0.177		0.0100	1	07/30/2025 19:30	WG2567957
Potassium	321		1.00	1	07/30/2025 19:30	WG2567957
Selenium	ND		0.0250	1	07/30/2025 19:30	WG2567957
Silver	ND		0.00600	1	07/30/2025 19:30	WG2567957

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Sodium	1130		1.00	5	07/30/2025 23:41	WG2567957
Thallium	ND		0.0200	1	07/30/2025 19:30	WG2567957
Vanadium	0.0288		0.0200	1	07/30/2025 19:30	WG2567957
Zinc	0.126		0.0500	1	07/30/2025 19:30	WG2567957

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.20	10	07/26/2025 21:01	WG2567203
1,1,1-Trichloroethane	ND		1.00	10	07/26/2025 21:01	WG2567203
1,1,2,2-Tetrachloroethane	ND		1.30	10	07/26/2025 21:01	WG2567203
1,1,2-Trichloroethane	ND		1.86	10	07/26/2025 21:01	WG2567203
1,1-Dichloroethane	ND		1.14	10	07/26/2025 21:01	WG2567203
1,1-Dichloroethene	ND		1.88	10	07/26/2025 21:01	WG2567203
1,2,3-Trichloropropane	ND		2.50	10	07/26/2025 21:01	WG2567203
1,2-Dibromo-3-Chloropropane	ND		3.25	10	07/26/2025 21:01	WG2567203
1,2-Dibromoethane	ND		1.93	10	07/26/2025 21:01	WG2567203
1,2-Dichloroethane	ND		1.08	10	07/26/2025 21:01	WG2567203
1,2-Dichloropropane	ND		1.90	10	07/26/2025 21:01	WG2567203
2-Butanone (MEK)	267		12.8	10	07/26/2025 21:01	WG2567203
2-Chloroethyl vinyl ether	ND		50.0	10	07/26/2025 21:01	WG2567203
2-Hexanone	ND		7.57	10	07/26/2025 21:01	WG2567203
4-Methyl-2-pentanone (MIBK)	ND		8.23	10	07/26/2025 21:01	WG2567203
Acetone	422	J3	25.0	10	08/01/2025 18:58	WG2568142
Acrylonitrile	ND		8.73	10	07/26/2025 21:01	WG2567203
Benzene	ND		1.00	10	07/26/2025 21:01	WG2567203
Bromochloromethane	ND		1.45	10	07/26/2025 21:01	WG2567203
Bromodichloromethane	ND		1.00	10	07/26/2025 21:01	WG2567203
Bromoform	ND		1.86	10	07/26/2025 21:01	WG2567203
Bromomethane	ND		2.50	10	07/26/2025 21:01	WG2567203
Carbon disulfide	ND		1.01	10	07/26/2025 21:01	WG2567203
Carbon tetrachloride	ND		1.59	10	07/26/2025 21:01	WG2567203
Chlorobenzene	ND		1.40	10	07/26/2025 21:01	WG2567203
Chloroethane	ND	C3	2.50	10	07/26/2025 21:01	WG2567203
Chloroform	ND		1.00	10	07/26/2025 21:01	WG2567203
Chloromethane	ND		1.53	10	07/26/2025 21:01	WG2567203
Dibromochloromethane	ND		1.28	10	07/26/2025 21:01	WG2567203
Dibromomethane	ND		1.17	10	07/26/2025 21:01	WG2567203
Ethylbenzene	ND		1.58	10	07/26/2025 21:01	WG2567203
Iodomethane	35.9		10.0	10	07/26/2025 21:01	WG2567203
Methylene Chloride	ND		10.7	10	07/26/2025 21:01	WG2567203
Styrene	ND		1.17	10	07/26/2025 21:01	WG2567203
Tetrachloroethene	ND		1.99	10	07/26/2025 21:01	WG2567203
Toluene	ND		4.12	10	07/26/2025 21:01	WG2567203
Trichloroethene	ND		1.53	10	07/26/2025 21:01	WG2567203
Trichlorofluoromethane	ND		2.50	10	07/26/2025 21:01	WG2567203
Vinyl acetate	ND		6.45	10	07/26/2025 21:01	WG2567203
Vinyl chloride	ND		1.18	10	07/26/2025 21:01	WG2567203
Xylenes, Total	ND		3.16	10	07/26/2025 21:01	WG2567203
cis-1,2-Dichloroethene	ND		1.00	10	07/26/2025 21:01	WG2567203
cis-1,3-Dichloropropene	ND		1.00	10	07/26/2025 21:01	WG2567203
trans-1,2-Dichloroethene	ND		1.52	10	07/26/2025 21:01	WG2567203
trans-1,3-Dichloropropene	ND		2.22	10	07/26/2025 21:01	WG2567203
trans-1,4-Dichloro-2-butene	ND		5.00	10	07/26/2025 21:01	WG2567203
(S) 4-Bromofluorobenzene	*96.2*			*77.0-126*	*07/26/2025 21:01*	WG2567203
(S) 4-Bromofluorobenzene	*102*			*77.0-126*	*08/01/2025 18:58*	WG2568142

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
(S) Toluene-d8	*102*			*80.0-120*	*07/26/2025 21:01*	WG2567203
(S) Toluene-d8	*96.2*			*80.0-120*	*08/01/2025 18:58*	WG2568142
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*	*07/26/2025 21:01*	WG2567203
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*	*08/01/2025 18:58*	WG2568142

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
2,4,5-Trichlorophenol	ND		0.0100	1	08/01/2025 23:09	WG2568632
2,4,6-Trichlorophenol	ND		0.0100	1	08/01/2025 23:09	WG2568632
2,4-Dichlorophenol	ND		0.0100	1	08/01/2025 23:09	WG2568632
2,4-Dimethylphenol	ND		0.0100	1	08/01/2025 23:09	WG2568632
2,4-Dinitrophenol	ND		0.0100	1	08/01/2025 23:09	WG2568632
2-Chlorophenol	ND		0.0100	1	08/01/2025 23:09	WG2568632
2-Nitrophenol	ND		0.0100	1	08/01/2025 23:09	WG2568632
4,6-Dinitro-2-methylphenol	ND		0.0100	1	08/01/2025 23:09	WG2568632
4-Chloro-3-methylphenol	ND		0.0100	1	08/01/2025 23:09	WG2568632
4-Nitrophenol	ND		0.0100	1	08/01/2025 23:09	WG2568632
Benzoic acid	ND		0.0500	1	08/01/2025 23:09	WG2568632
Pentachlorophenol	ND		0.0100	1	08/01/2025 23:09	WG2568632
(S) Phenol-d5	*33.3*			*10.0-120*	*08/01/2025 23:09*	WG2568632
(S) p-Terphenyl-d14	*12.1*			*10.0-128*	*08/01/2025 23:09*	WG2568632
(S) Nitrobenzene-d5	*67.4*			*10.0-127*	*08/01/2025 23:09*	WG2568632
(S) 2-Fluorophenol	*34.3*			*10.0-120*	*08/01/2025 23:09*	WG2568632
(S) 2-Fluorobiphenyl	*41.6*			*10.0-130*	*08/01/2025 23:09*	WG2568632
(S) 2,4,6-Tribromophenol	*78.6*			*10.0-155*	*08/01/2025 23:09*	WG2568632

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		7/28/2025 11:09:43 AM	WG2567414
Initial pH	8.35		7/28/2025 11:09:43 AM	WG2567414
Final pH	4.97		7/28/2025 11:09:43 AM	WG2567414

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	07/30/2025 14:24	WG2568399

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	07/31/2025 12:06	WG2569985
Barium, TCLP	ND		0.100	100	1	07/31/2025 12:06	WG2569985
Cadmium, TCLP	ND		0.100	1	1	07/31/2025 12:06	WG2569985
Chromium, TCLP	ND		0.100	5	1	07/31/2025 12:06	WG2569985
Lead, TCLP	ND		0.100	5	1	07/31/2025 12:06	WG2569985
Selenium, TCLP	ND		0.100	1	1	07/31/2025 12:06	WG2569985
Silver, TCLP	ND		0.100	5	1	07/31/2025 12:06	WG2569985

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.09	su

Calculated Results

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Total Nitrogen	865		0.197	1	08/03/2025 20:39	WG2568193

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	118		7.00	1	07/31/2025 11:09	WG2569263

Wet Chemistry by Method 1664B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	6.17		5.00	1	08/01/2025 11:40	WG2570057

Sample Narrative:

L1881998-03 WG2570057: Achieving a constant weight is not possible due to sample matrix

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	4760		20.0	1	07/30/2025 12:45	WG2569352
Alkalinity,Bicarbonate	4760		20.0	1	07/30/2025 12:45	WG2569352

Sample Narrative:

L1881998-03 WG2569352: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	725		3.17	100	07/30/2025 00:44	WG2568350

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	865		2.80	80	08/03/2025 20:39	WG2570540

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.197	10	07/30/2025 20:51	WG2568193

Sample Narrative:

L1881998-03 WG2568193: Dilution due to matrix.

Wet Chemistry by Method 365.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Phosphorus,Total	11.1		0.100	100	08/16/2025 23:03	WG2568285

Wet Chemistry by Method 5210 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	852		333	10	07/30/2025 11:28	WG2566699

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND	T8	0.0100	2	07/25/2025 12:48	WG2566617

Wet Chemistry by Method 9012B

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.0100	1	08/01/2025 21:47	WG2570818

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.20	T8	1	08/04/2025 11:15	WG2572174

Sample Narrative:

L1881998-03 WG2572174: 8.2 at 18.4C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chloride	2210		2.60	50	07/30/2025 02:10	WG2566641
Sulfate	ND		5.00	10	07/30/2025 01:56	WG2566641

Sample Narrative:

L1881998-03 WG2566641: Dilution due to matrix impact on instrumentation at lower dilution

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000490	10	07/30/2025 12:35	WG2566881

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.0134		0.0100	1	07/30/2025 19:32	WG2567957
Arsenic	0.0489		0.0100	1	07/30/2025 19:32	WG2567957
Barium	1.27		0.00500	1	07/30/2025 19:32	WG2567957
Beryllium	ND		0.00200	1	07/30/2025 19:32	WG2567957
Cadmium	ND		0.00200	1	07/30/2025 19:32	WG2567957
Calcium	216		1.00	1	07/30/2025 19:32	WG2567957
Chromium	0.134		0.0100	1	07/30/2025 19:32	WG2567957
Cobalt	0.0378		0.0100	1	07/30/2025 19:32	WG2567957
Copper	ND		0.0100	1	07/30/2025 19:32	WG2567957
Lead	0.00974		0.00500	1	07/30/2025 19:32	WG2567957
Magnesium	143		1.00	1	07/30/2025 19:32	WG2567957
Molybdenum	ND		0.0100	1	07/30/2025 19:32	WG2567957
Nickel	0.241		0.0100	1	07/30/2025 19:32	WG2567957
Potassium	404		1.00	1	07/30/2025 19:32	WG2567957
Selenium	ND		0.0250	1	07/30/2025 19:32	WG2567957
Silver	ND		0.00600	1	07/30/2025 19:32	WG2567957

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Sodium	1610		1.00	5	07/30/2025 23:43	WG2567957
Thallium	ND		0.0200	1	07/30/2025 19:32	WG2567957
Vanadium	0.0433		0.0200	1	07/30/2025 19:32	WG2567957
Zinc	0.264		0.0500	1	07/30/2025 19:32	WG2567957

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.20	10	07/26/2025 21:21	WG2567203
1,1,1-Trichloroethane	ND		1.00	10	07/26/2025 21:21	WG2567203
1,1,2,2-Tetrachloroethane	ND		1.30	10	07/26/2025 21:21	WG2567203
1,1,2-Trichloroethane	ND		1.86	10	07/26/2025 21:21	WG2567203
1,1-Dichloroethane	ND		1.14	10	07/26/2025 21:21	WG2567203
1,1-Dichloroethene	ND		1.88	10	07/26/2025 21:21	WG2567203
1,2,3-Trichloropropane	ND		2.50	10	07/26/2025 21:21	WG2567203
1,2-Dibromo-3-Chloropropane	ND		3.25	10	07/26/2025 21:21	WG2567203
1,2-Dibromoethane	ND		1.93	10	07/26/2025 21:21	WG2567203
1,2-Dichloroethane	ND		1.08	10	07/26/2025 21:21	WG2567203
1,2-Dichloropropane	ND		1.90	10	07/26/2025 21:21	WG2567203
2-Butanone (MEK)	1180		12.8	10	07/26/2025 21:21	WG2567203
2-Chloroethyl vinyl ether	ND		50.0	10	07/26/2025 21:21	WG2567203
2-Hexanone	ND		7.57	10	07/26/2025 21:21	WG2567203
4-Methyl-2-pentanone (MIBK)	10.5		8.23	10	07/26/2025 21:21	WG2567203
Acetone	1000		25.0	10	07/26/2025 21:21	WG2567203
Acrylonitrile	ND		8.73	10	07/26/2025 21:21	WG2567203
Benzene	ND		1.00	10	07/26/2025 21:21	WG2567203
Bromochloromethane	ND		1.45	10	07/26/2025 21:21	WG2567203
Bromodichloromethane	ND		1.00	10	07/26/2025 21:21	WG2567203
Bromoform	ND		1.86	10	07/26/2025 21:21	WG2567203
Bromomethane	ND		2.50	10	07/26/2025 21:21	WG2567203
Carbon disulfide	ND		1.01	10	07/26/2025 21:21	WG2567203
Carbon tetrachloride	ND		1.59	10	07/26/2025 21:21	WG2567203
Chlorobenzene	ND		1.40	10	07/26/2025 21:21	WG2567203
Chloroethane	ND	C3	2.50	10	07/26/2025 21:21	WG2567203
Chloroform	ND		1.00	10	07/26/2025 21:21	WG2567203
Chloromethane	ND		1.53	10	07/26/2025 21:21	WG2567203
Dibromochloromethane	ND		1.28	10	07/26/2025 21:21	WG2567203
Dibromomethane	ND		1.17	10	07/26/2025 21:21	WG2567203
Ethylbenzene	ND		1.58	10	07/26/2025 21:21	WG2567203
Iodomethane	ND		10.0	10	07/26/2025 21:21	WG2567203
Methylene Chloride	ND		10.7	10	07/26/2025 21:21	WG2567203
Styrene	ND		1.17	10	07/26/2025 21:21	WG2567203
Tetrachloroethene	ND		1.99	10	07/26/2025 21:21	WG2567203
Toluene	ND		4.12	10	07/26/2025 21:21	WG2567203
Trichloroethene	ND		1.53	10	07/26/2025 21:21	WG2567203
Trichlorofluoromethane	ND		2.50	10	07/26/2025 21:21	WG2567203
Vinyl acetate	ND		6.45	10	07/26/2025 21:21	WG2567203
Vinyl chloride	ND		1.18	10	07/26/2025 21:21	WG2567203
Xylenes, Total	ND		3.16	10	07/26/2025 21:21	WG2567203
cis-1,2-Dichloroethene	ND		1.00	10	07/26/2025 21:21	WG2567203
cis-1,3-Dichloropropene	ND		1.00	10	07/26/2025 21:21	WG2567203
trans-1,2-Dichloroethene	ND		1.52	10	07/26/2025 21:21	WG2567203
trans-1,3-Dichloropropene	ND		2.22	10	07/26/2025 21:21	WG2567203
trans-1,4-Dichloro-2-butene	ND		5.00	10	07/26/2025 21:21	WG2567203
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*	*07/26/2025 21:21*	WG2567203
(S) Toluene-d8	*103*			*80.0-120*	*07/26/2025 21:21*	WG2567203

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*	*07/26/2025 21:21*	WG2567203

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND		0.0100	1	08/01/2025 22:47	WG2568632
2,4,6-Trichlorophenol	ND		0.0100	1	08/01/2025 22:47	WG2568632
2,4-Dichlorophenol	ND		0.0100	1	08/01/2025 22:47	WG2568632
2,4-Dimethylphenol	ND		0.0100	1	08/01/2025 22:47	WG2568632
2,4-Dinitrophenol	ND		0.0100	1	08/01/2025 22:47	WG2568632
2-Chlorophenol	ND		0.0100	1	08/01/2025 22:47	WG2568632
2-Nitrophenol	ND		0.0100	1	08/01/2025 22:47	WG2568632
4,6-Dinitro-2-methylphenol	ND		0.0100	1	08/01/2025 22:47	WG2568632
4-Chloro-3-methylphenol	ND		0.0100	1	08/01/2025 22:47	WG2568632
4-Nitrophenol	ND		0.0100	1	08/01/2025 22:47	WG2568632
Benzoic acid	ND		0.0500	1	08/01/2025 22:47	WG2568632
Pentachlorophenol	ND		0.0100	1	08/01/2025 22:47	WG2568632
(S) Phenol-d5	*37.8*			*10.0-120*	*08/01/2025 22:47*	WG2568632
(S) p-Terphenyl-d14	*16.3*			*10.0-128*	*08/01/2025 22:47*	WG2568632
(S) Nitrobenzene-d5	*72.3*			*10.0-127*	*08/01/2025 22:47*	WG2568632
(S) 2-Fluorophenol	*41.6*			*10.0-120*	*08/01/2025 22:47*	WG2568632
(S) 2-Fluorobiphenyl	*46.0*			*10.0-130*	*08/01/2025 22:47*	WG2568632
(S) 2,4,6-Tribromophenol	*84.8*			*10.0-155*	*08/01/2025 22:47*	WG2568632

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		7/28/2025 1:39:26 PM	WG2567414
Initial pH	8.31		7/28/2025 1:39:26 PM	WG2567414
Final pH	5.02		7/28/2025 1:39:26 PM	WG2567414

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	07/30/2025 14:48	WG2568399

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	07/31/2025 12:07	WG2569985
Barium, TCLP	ND		0.100	100	1	07/31/2025 12:07	WG2569985
Cadmium, TCLP	ND		0.100	1	1	07/31/2025 12:07	WG2569985
Chromium, TCLP	ND		0.100	5	1	07/31/2025 12:07	WG2569985
Lead, TCLP	ND		0.100	5	1	07/31/2025 12:07	WG2569985
Selenium, TCLP	ND		0.100	1	1	07/31/2025 12:07	WG2569985
Silver, TCLP	ND		0.100	5	1	07/31/2025 12:07	WG2569985

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.91	su

Calculated Results

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Total Nitrogen	33.2		0.100	1	08/03/2025 18:59	WG2568193

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	ND		4.00	1	07/31/2025 11:09	WG2569263

Wet Chemistry by Method 1664B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5.00	1	08/01/2025 11:40	WG2570057

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	747		20.0	1	07/30/2025 12:50	WG2569352
Alkalinity,Bicarbonate	650		20.0	1	07/30/2025 12:50	WG2569352

Sample Narrative:

L1881998-05 WG2569352: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	17.9		0.317	10	07/30/2025 01:30	WG2568350

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	33.0		0.250	4	08/03/2025 18:59	WG2570540

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	0.177		0.100	5	07/30/2025 20:52	WG2568193

Sample Narrative:

L1881998-05 WG2568193: Dilution due to matrix.

Wet Chemistry by Method 365.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Phosphorus,Total	2.06		0.0500	50	08/16/2025 23:04	WG2568285

Wet Chemistry by Method 5210 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	ND		333	10	07/30/2025 11:31	WG2566699

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND	T8	0.0100	1	07/25/2025 12:49	WG2566617

Wet Chemistry by Method 9012B

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.0100	1	08/01/2025 21:48	WG2570818

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.76	T8	1	08/04/2025 11:15	WG2572174

Sample Narrative:

L1881998-05 WG2572174: 8.76 at 18.5C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chloride	884		1.00	10	07/30/2025 02:36	WG2566641
Sulfate	6.90		5.00	5	07/30/2025 02:23	WG2566641

Sample Narrative:

L1881998-05 WG2566641: Dilution due to matrix impact on instrumentation at lower dilution

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	07/30/2025 12:38	WG2566881

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.0100	1	07/30/2025 19:34	WG2567957
Arsenic	0.0160		0.0100	1	07/30/2025 19:34	WG2567957
Barium	0.223		0.00500	1	07/30/2025 19:34	WG2567957
Beryllium	ND		0.00200	1	07/30/2025 19:34	WG2567957
Cadmium	ND		0.00200	1	07/30/2025 19:34	WG2567957
Calcium	27.7		1.00	1	07/30/2025 19:34	WG2567957
Chromium	0.0397		0.0100	1	07/30/2025 19:34	WG2567957
Cobalt	0.0162		0.0100	1	07/30/2025 19:34	WG2567957
Copper	ND		0.0100	1	07/30/2025 19:34	WG2567957
Lead	ND		0.00500	1	07/30/2025 19:34	WG2567957
Magnesium	46.4		1.00	1	07/30/2025 19:34	WG2567957
Molybdenum	ND		0.0100	1	07/30/2025 19:34	WG2567957
Nickel	0.0834		0.0100	1	07/30/2025 19:34	WG2567957
Potassium	164		1.00	1	07/30/2025 19:34	WG2567957
Selenium	ND		0.0250	1	07/30/2025 19:34	WG2567957
Silver	ND		0.00600	1	07/30/2025 19:34	WG2567957

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Sodium	652		1.00	1	07/30/2025 19:34	WG2567957
Thallium	ND		0.0200	1	07/30/2025 19:34	WG2567957
Vanadium	ND		0.0200	1	07/30/2025 19:34	WG2567957
Zinc	ND		0.0500	1	07/30/2025 19:34	WG2567957

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND	C3	1.00	1	08/01/2025 14:07	WG2570473
1,1,1-Trichloroethane	ND		1.00	1	08/01/2025 14:07	WG2570473
1,1,2,2-Tetrachloroethane	ND	C3	1.00	1	08/01/2025 14:07	WG2570473
1,1,2-Trichloroethane	ND		1.00	1	08/01/2025 14:07	WG2570473
1,1-Dichloroethane	ND		1.00	1	08/01/2025 14:07	WG2570473
1,1-Dichloroethene	ND		1.00	1	08/01/2025 14:07	WG2570473
1,2,3-Trichloropropane	ND		2.50	1	08/01/2025 14:07	WG2570473
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/01/2025 14:07	WG2570473
1,2-Dibromoethane	ND		1.00	1	08/01/2025 14:07	WG2570473
1,2-Dichloroethane	ND		1.00	1	08/01/2025 14:07	WG2570473
1,2-Dichloropropane	ND		1.00	1	08/01/2025 14:07	WG2570473
2-Butanone (MEK)	ND		10.0	1	08/01/2025 14:07	WG2570473
2-Chloroethyl vinyl ether	ND		50.0	1	08/01/2025 14:07	WG2570473
2-Hexanone	ND		5.00	1	08/01/2025 14:07	WG2570473
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/01/2025 14:07	WG2570473
Acetone	ND	C3	25.0	1	08/01/2025 14:07	WG2570473
Acrylonitrile	ND		5.00	1	08/01/2025 14:07	WG2570473
Benzene	ND		1.00	1	08/01/2025 14:07	WG2570473
Bromochloromethane	ND		1.00	1	08/02/2025 10:29	WG2571430
Bromodichloromethane	ND		1.00	1	08/01/2025 14:07	WG2570473
Bromoform	ND	C3	1.00	1	08/01/2025 14:07	WG2570473
Bromomethane	ND		2.50	1	08/01/2025 14:07	WG2570473
Carbon disulfide	ND		1.00	1	08/01/2025 14:07	WG2570473
Carbon tetrachloride	ND		1.00	1	08/01/2025 14:07	WG2570473
Chlorobenzene	ND		1.00	1	08/01/2025 14:07	WG2570473
Chloroethane	ND		2.50	1	08/01/2025 14:07	WG2570473
Chloroform	ND		1.00	1	08/01/2025 14:07	WG2570473
Chloromethane	ND		1.25	1	08/01/2025 14:07	WG2570473
Dibromochloromethane	ND		1.00	1	08/01/2025 14:07	WG2570473
Dibromomethane	ND		1.00	1	08/01/2025 14:07	WG2570473
Ethylbenzene	ND		1.00	1	08/01/2025 14:07	WG2570473
Iodomethane	ND		10.0	1	08/01/2025 14:07	WG2570473
Methylene Chloride	ND		2.50	1	08/01/2025 14:07	WG2570473
Styrene	ND		1.00	1	08/01/2025 14:07	WG2570473
Tetrachloroethene	ND		1.00	1	08/01/2025 14:07	WG2570473
Toluene	ND		1.00	1	08/01/2025 14:07	WG2570473
Trichloroethene	ND		1.00	1	08/01/2025 14:07	WG2570473
Trichlorofluoromethane	ND		2.50	1	08/01/2025 14:07	WG2570473
Vinyl acetate	ND	C3	5.00	1	08/01/2025 14:07	WG2570473
Vinyl chloride	ND		1.00	1	08/01/2025 14:07	WG2570473
Xylenes, Total	ND		2.00	1	08/01/2025 14:07	WG2570473
cis-1,2-Dichloroethene	ND		1.00	1	08/01/2025 14:07	WG2570473
cis-1,3-Dichloropropene	ND		1.00	1	08/01/2025 14:07	WG2570473
trans-1,2-Dichloroethene	ND		1.00	1	08/01/2025 14:07	WG2570473
trans-1,3-Dichloropropene	ND		1.00	1	08/01/2025 14:07	WG2570473
trans-1,4-Dichloro-2-butene	ND	C3	5.00	1	08/01/2025 14:07	WG2570473
(S) 4-Bromofluorobenzene	*94.7*			*77.0-126*	*08/01/2025 14:07*	WG2570473
(S) 4-Bromofluorobenzene	*96.3*			*77.0-126*	*08/02/2025 10:29*	WG2571430

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
(S) Toluene-d8	*99.2*			*80.0-120*	*08/01/2025 14:07*	WG2570473
(S) Toluene-d8	*98.4*			*80.0-120*	*08/02/2025 10:29*	WG2571430
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*	*08/01/2025 14:07*	WG2570473
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*	*08/02/2025 10:29*	WG2571430

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND		0.0100	1	08/01/2025 22:26	WG2568632
2,4,6-Trichlorophenol	ND		0.0100	1	08/01/2025 22:26	WG2568632
2,4-Dichlorophenol	ND		0.0100	1	08/01/2025 22:26	WG2568632
2,4-Dimethylphenol	ND		0.0100	1	08/01/2025 22:26	WG2568632
2,4-Dinitrophenol	ND		0.0100	1	08/01/2025 22:26	WG2568632
2-Chlorophenol	ND		0.0100	1	08/01/2025 22:26	WG2568632
2-Nitrophenol	ND		0.0100	1	08/01/2025 22:26	WG2568632
4,6-Dinitro-2-methylphenol	ND		0.0100	1	08/01/2025 22:26	WG2568632
4-Chloro-3-methylphenol	ND		0.0100	1	08/01/2025 22:26	WG2568632
4-Nitrophenol	ND		0.0100	1	08/01/2025 22:26	WG2568632
Benzoic acid	ND		0.0500	1	08/01/2025 22:26	WG2568632
Pentachlorophenol	ND		0.0100	1	08/01/2025 22:26	WG2568632
(S) Phenol-d5	*24.0*			*10.0-120*	*08/01/2025 22:26*	WG2568632
(S) p-Terphenyl-d14	*42.8*			*10.0-128*	*08/01/2025 22:26*	WG2568632
(S) Nitrobenzene-d5	*58.8*			*10.0-127*	*08/01/2025 22:26*	WG2568632
(S) 2-Fluorophenol	*35.5*			*10.0-120*	*08/01/2025 22:26*	WG2568632
(S) 2-Fluorobiphenyl	*60.3*			*10.0-130*	*08/01/2025 22:26*	WG2568632
(S) 2,4,6-Tribromophenol	*78.6*			*10.0-155*	*08/01/2025 22:26*	WG2568632

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		7/28/2025 11:10:00 AM	WG2567414
Initial pH	na		7/28/2025 11:10:00 AM	WG2567414
Final pH	na		7/28/2025 11:10:00 AM	WG2567414

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	07/30/2025 14:34	WG2568399

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	07/31/2025 12:09	WG2569985
Barium, TCLP	0.223		0.100	100	1	07/31/2025 12:09	WG2569985
Cadmium, TCLP	ND		0.100	1	1	07/31/2025 12:09	WG2569985
Chromium, TCLP	ND		0.100	5	1	07/31/2025 12:09	WG2569985
Lead, TCLP	ND		0.100	5	1	07/31/2025 12:09	WG2569985
Selenium, TCLP	ND		0.100	1	1	07/31/2025 12:09	WG2569985
Silver, TCLP	ND		0.100	5	1	07/31/2025 12:09	WG2569985

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.89	su

Calculated Results

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Total Nitrogen	99.4		0.100	1	08/03/2025 20:34	WG2568193

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	98.4		4.00	1	07/31/2025 11:09	WG2569263

Wet Chemistry by Method 1664B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5.00	1	08/01/2025 11:40	WG2570057

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	1480		20.0	1	07/30/2025 13:07	WG2569352
Alkalinity,Bicarbonate	1240		20.0	1	07/30/2025 13:07	WG2569352

Sample Narrative:

L1881998-07 WG2569352: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	47.1		0.634	20	07/30/2025 01:31	WG2568350

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	99.4		0.700	20	08/03/2025 20:34	WG2570540

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.100	5	07/30/2025 20:53	WG2568193

Sample Narrative:

L1881998-07 WG2568193: Dilution due to matrix.

Wet Chemistry by Method 365.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Phosphorus,Total	4.29		0.100	100	08/16/2025 23:06	WG2568285

Wet Chemistry by Method 5210 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	110	K9	33.3	10	07/30/2025 11:37	WG2566699

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND	T8	0.0100	2	07/25/2025 12:59	WG2566617

Wet Chemistry by Method 9012B

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.0100	1	08/03/2025 21:23	WG2571840

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.73	T8	1	08/04/2025 11:15	WG2572174

Sample Narrative:

L1881998-07 WG2572174: 8.73 at 18.5C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chloride	1650		2.60	50	07/30/2025 03:03	WG2566641
Sulfate	ND		5.00	10	07/30/2025 02:50	WG2566641

Sample Narrative:

L1881998-07 WG2566641: Dilution due to matrix impact on instrumentation at lower dilution

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000200	1	07/31/2025 15:33	WG2567459

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.0100	1	07/30/2025 19:36	WG2567957
Arsenic	0.0279		0.0100	1	07/30/2025 19:36	WG2567957
Barium	0.382		0.00500	1	07/30/2025 19:36	WG2567957
Beryllium	ND		0.00200	1	07/30/2025 19:36	WG2567957
Cadmium	ND		0.00200	1	07/30/2025 19:36	WG2567957
Calcium	74.2		1.00	1	07/30/2025 19:36	WG2567957
Chromium	0.0688		0.0100	1	07/30/2025 19:36	WG2567957
Cobalt	0.0243		0.0100	1	07/30/2025 19:36	WG2567957
Copper	ND		0.0100	1	07/30/2025 19:36	WG2567957
Lead	ND		0.00500	1	07/30/2025 19:36	WG2567957
Magnesium	90.7		1.00	1	07/30/2025 19:36	WG2567957
Molybdenum	ND		0.0100	1	07/30/2025 19:36	WG2567957
Nickel	0.153		0.0100	1	07/30/2025 19:36	WG2567957
Potassium	293		1.00	1	07/30/2025 19:36	WG2567957
Selenium	ND		0.0250	1	07/30/2025 19:36	WG2567957
Silver	ND		0.00600	1	07/30/2025 19:36	WG2567957

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Sodium	1200		1.00	5	07/30/2025 23:45	WG2567957
Thallium	ND		0.0200	1	07/30/2025 19:36	WG2567957
Vanadium	0.0222		0.0200	1	07/30/2025 19:36	WG2567957
Zinc	ND		0.0500	1	07/30/2025 19:36	WG2567957

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND	C3	1.00	1	08/01/2025 14:28	WG2570473
1,1,1-Trichloroethane	ND		1.00	1	08/01/2025 14:28	WG2570473
1,1,2,2-Tetrachloroethane	ND	C3	1.00	1	08/01/2025 14:28	WG2570473
1,1,2-Trichloroethane	ND		1.00	1	08/01/2025 14:28	WG2570473
1,1-Dichloroethane	ND		1.00	1	08/01/2025 14:28	WG2570473
1,1-Dichloroethene	ND		1.00	1	08/01/2025 14:28	WG2570473
1,2,3-Trichloropropane	ND		2.50	1	08/01/2025 14:28	WG2570473
1,2-Dibromo-3-Chloropropane	ND		2.50	1	08/01/2025 14:28	WG2570473
1,2-Dibromoethane	ND		1.00	1	08/01/2025 14:28	WG2570473
1,2-Dichloroethane	ND		1.00	1	08/01/2025 14:28	WG2570473
1,2-Dichloropropane	ND		1.00	1	08/01/2025 14:28	WG2570473
2-Butanone (MEK)	ND		10.0	1	08/01/2025 14:28	WG2570473
2-Chloroethyl vinyl ether	ND		50.0	1	08/01/2025 14:28	WG2570473
2-Hexanone	ND		5.00	1	08/01/2025 14:28	WG2570473
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	08/01/2025 14:28	WG2570473
Acetone	ND	C3	25.0	1	08/01/2025 14:28	WG2570473
Acrylonitrile	ND		5.00	1	08/01/2025 14:28	WG2570473
Benzene	ND		1.00	1	08/01/2025 14:28	WG2570473
Bromochloromethane	ND		1.00	1	08/02/2025 10:50	WG2571430
Bromodichloromethane	ND		1.00	1	08/01/2025 14:28	WG2570473
Bromoform	ND	C3	1.00	1	08/01/2025 14:28	WG2570473
Bromomethane	ND		2.50	1	08/01/2025 14:28	WG2570473
Carbon disulfide	ND		1.00	1	08/01/2025 14:28	WG2570473
Carbon tetrachloride	ND		1.00	1	08/01/2025 14:28	WG2570473
Chlorobenzene	ND		1.00	1	08/01/2025 14:28	WG2570473
Chloroethane	ND		2.50	1	08/01/2025 14:28	WG2570473
Chloroform	ND		1.00	1	08/01/2025 14:28	WG2570473
Chloromethane	ND		1.25	1	08/01/2025 14:28	WG2570473
Dibromochloromethane	ND		1.00	1	08/01/2025 14:28	WG2570473
Dibromomethane	ND		1.00	1	08/01/2025 14:28	WG2570473
Ethylbenzene	ND		1.00	1	08/01/2025 14:28	WG2570473
Iodomethane	ND		10.0	1	08/01/2025 14:28	WG2570473
Methylene Chloride	ND		2.50	1	08/01/2025 14:28	WG2570473
Styrene	ND		1.00	1	08/01/2025 14:28	WG2570473
Tetrachloroethene	ND		1.00	1	08/01/2025 14:28	WG2570473
Toluene	ND		1.00	1	08/01/2025 14:28	WG2570473
Trichloroethene	ND		1.00	1	08/01/2025 14:28	WG2570473
Trichlorofluoromethane	ND		2.50	1	08/01/2025 14:28	WG2570473
Vinyl acetate	ND	C3	5.00	1	08/01/2025 14:28	WG2570473
Vinyl chloride	ND		1.00	1	08/01/2025 14:28	WG2570473
Xylenes, Total	ND		2.00	1	08/01/2025 14:28	WG2570473
cis-1,2-Dichloroethene	ND		1.00	1	08/01/2025 14:28	WG2570473
cis-1,3-Dichloropropene	ND		1.00	1	08/01/2025 14:28	WG2570473
trans-1,2-Dichloroethene	ND		1.00	1	08/01/2025 14:28	WG2570473
trans-1,3-Dichloropropene	ND		1.00	1	08/01/2025 14:28	WG2570473
trans-1,4-Dichloro-2-butene	ND	C3	5.00	1	08/01/2025 14:28	WG2570473
(S) 4-Bromofluorobenzene	*95.8*			*77.0-126*	*08/01/2025 14:28*	WG2570473
(S) 4-Bromofluorobenzene	*96.2*			*77.0-126*	*08/02/2025 10:50*	WG2571430

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
(S) Toluene-d8	*103*			*80.0-120*	*08/01/2025 14:28*	WG2570473
(S) Toluene-d8	*97.9*			*80.0-120*	*08/02/2025 10:50*	WG2571430
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*	*08/01/2025 14:28*	WG2570473
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*	*08/02/2025 10:50*	WG2571430

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
2,4,5-Trichlorophenol	ND		0.0100	1	08/01/2025 23:30	WG2568632
2,4,6-Trichlorophenol	ND		0.0100	1	08/01/2025 23:30	WG2568632
2,4-Dichlorophenol	ND		0.0100	1	08/01/2025 23:30	WG2568632
2,4-Dimethylphenol	ND		0.0100	1	08/01/2025 23:30	WG2568632
2,4-Dinitrophenol	ND		0.0100	1	08/01/2025 23:30	WG2568632
2-Chlorophenol	ND		0.0100	1	08/01/2025 23:30	WG2568632
2-Nitrophenol	ND		0.0100	1	08/01/2025 23:30	WG2568632
4,6-Dinitro-2-methylphenol	ND		0.0100	1	08/01/2025 23:30	WG2568632
4-Chloro-3-methylphenol	ND		0.0100	1	08/01/2025 23:30	WG2568632
4-Nitrophenol	ND		0.0100	1	08/01/2025 23:30	WG2568632
Benzoic acid	ND		0.0500	1	08/01/2025 23:30	WG2568632
Pentachlorophenol	ND		0.0100	1	08/01/2025 23:30	WG2568632
(S) Phenol-d5	*19.7*			*10.0-120*	*08/01/2025 23:30*	WG2568632
(S) p-Terphenyl-d14	*9.96*	J2		*10.0-128*	*08/01/2025 23:30*	WG2568632
(S) Nitrobenzene-d5	*59.7*			*10.0-127*	*08/01/2025 23:30*	WG2568632
(S) 2-Fluorophenol	*29.6*			*10.0-120*	*08/01/2025 23:30*	WG2568632
(S) 2-Fluorobiphenyl	*29.7*			*10.0-130*	*08/01/2025 23:30*	WG2568632
(S) 2,4,6-Tribromophenol	*54.5*			*10.0-155*	*08/01/2025 23:30*	WG2568632

Sample Narrative:

L1881998-07 WG2568632: Surrogate failure due to matrix interference during extraction procedure.

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		7/28/2025 11:09:43 AM	WG2567414
Initial pH	8.80		7/28/2025 11:09:43 AM	WG2567414
Final pH	4.92		7/28/2025 11:09:43 AM	WG2567414

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	07/30/2025 14:50	WG2568399

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	07/31/2025 12:11	WG2569985
Barium, TCLP	ND		0.100	100	1	07/31/2025 12:11	WG2569985
Cadmium, TCLP	ND		0.100	1	1	07/31/2025 12:11	WG2569985
Chromium, TCLP	ND		0.100	5	1	07/31/2025 12:11	WG2569985
Lead, TCLP	ND		0.100	5	1	07/31/2025 12:11	WG2569985
Selenium, TCLP	ND		0.100	1	1	07/31/2025 12:11	WG2569985
Silver, TCLP	ND		0.100	5	1	07/31/2025 12:11	WG2569985

Method Blank (MB)

(MB) R4252719-1 07/31/25 11:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1881998-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1881998-01 07/31/25 11:09 • (DUP) R4252719-3 07/31/25 11:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	88.0	89.0	1	1.13		10

L1881998-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1881998-03 07/31/25 11:09 • (DUP) R4252719-4 07/31/25 11:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	118	112	1	5.22		10

Laboratory Control Sample (LCS)

(LCS) R4252719-2 07/31/25 11:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	728	94.2	85.0-115	

Method Blank (MB)

(MB) R4252777-1 08/01/25 11:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Oil & Grease (Hexane Extr)	ND		1.16	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4252777-2 08/01/25 11:40 • (LCSD) R4252777-3 08/01/25 11:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oil & Grease (Hexane Extr)	40.0	36.9	38.9	92.3	97.3	78.0-114			5.28	20

L1881892-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1881892-02 08/01/25 11:40 • (MS) R4252777-4 08/01/25 11:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Oil & Grease (Hexane Extr)	40.0	ND	44.1	110	1	78.0-114	

Method Blank (MB)

(MB) R4251718-2 07/30/25 11:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0
Alkalinity,Bicarbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1881945-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1881945-02 07/30/25 12:22 • (DUP) R4251718-3 07/30/25 12:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	ND	ND	1	1.08		20
Alkalinity,Bicarbonate	ND	ND	1	1.08		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

L1882021-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1882021-06 07/30/25 13:46 • (DUP) R4251718-4 07/30/25 13:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	125	124	1	0.975		20
Alkalinity,Bicarbonate	125	124	1	0.975		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4251718-1 07/30/25 11:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	106	106	90.0-110	

Laboratory Control Sample (LCS)

(LCS) R4251718-1 07/30/25 11:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4251245-1 07/30/25 00:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1882067-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1882067-02 07/30/25 01:00 • (DUP) R4251245-5 07/30/25 01:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.392	0.391	1	0.255		10

L1882067-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1882067-04 07/30/25 01:11 • (DUP) R4251245-7 07/30/25 01:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.146	0.152	1	4.03		10

Laboratory Control Sample (LCS)

(LCS) R4251245-2 07/30/25 00:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.41	98.8	90.0-110	

L1882067-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1882067-01 07/30/25 01:34 • (MS) R4251245-3 07/30/25 00:57 • (MSD) R4251245-4 07/30/25 00:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	ND	5.04	5.01	101	100	1	90.0-110			0.617	10

L1882067-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1882067-03 07/30/25 01:03 • (MS) R4251245-6 07/30/25 01:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.13	103	1	90.0-110	

Method Blank (MB)

(MB) R4253597-1 08/03/25 18:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	0.130		0.0350	0.250

Laboratory Control Sample (LCS)

(LCS) R4253597-2 08/03/25 18:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	15.6	15.8	101	90.0-110	

L1882865-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1882865-15 08/03/25 19:21 • (MS) R4253597-4 08/03/25 19:23 • (MSD) R4253597-5 08/03/25 19:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	5.00	0.661	5.56	5.31	97.9	92.9	1	90.0-110			4.66	20

L1882865-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1882865-17 08/03/25 19:27 • (MS) R4253597-6 08/03/25 19:29 • (MSD) R4253597-7 08/03/25 19:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	5.00	ND	4.88	4.87	93.8	93.6	1	90.0-110			0.170	20

Method Blank (MB)

(MB) R4251764-1 07/30/25 20:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	ND		0.0197	0.100

Laboratory Control Sample (LCS)

(LCS) R4251764-2 07/30/25 20:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.69	108	90.0-110	

L1881917-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881917-11 07/30/25 20:30 • (MS) R4251764-3 07/30/25 20:32 • (MSD) R4251764-4 07/30/25 20:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	2.40	4.96	5.01	102	104	1	90.0-110		E	1.00	20

L1881917-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881917-12 07/30/25 20:34 • (MS) R4251764-6 07/30/25 20:35 • (MSD) R4251764-7 07/30/25 20:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	1.25	3.87	3.85	105	104	1	90.0-110			0.518	20

Method Blank (MB)

(MB) R4259696-1 08/16/25 22:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus,Total	ND		0.00100	0.00300

Laboratory Control Sample (LCS)

(LCS) R4259696-2 08/16/25 23:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	0.136	0.145	107	90.0-110	

Method Blank (MB)

(MB) R4251904-2 07/30/25 09:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
BOD	ND		0.200	0.200

L1881800-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1881800-01 07/30/25 10:10 • (DUP) R4251904-3 07/30/25 10:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	6.35	6.09	1	4.18		30

L1881892-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1881892-01 07/30/25 10:33 • (DUP) R4251904-4 07/30/25 10:34

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	ND	ND	1	0		30

Laboratory Control Sample (LCS)

(LCS) R4251904-1 07/30/25 09:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	180	91.2	84.6-115	

Laboratory Control Sample (LCS)

(LCS) R4251904-5 07/30/25 11:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	187	94.6	84.6-115	

Method Blank (MB)

(MB) R4251906-2 07/30/25 11:17

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
BOD	ND		0.200	0.200

L1881974-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1881974-01 07/30/25 11:20 • (DUP) R4251906-3 07/30/25 11:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	14.1	16.6	1	15.8		30

Laboratory Control Sample (LCS)

(LCS) R4251906-1 07/30/25 11:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	187	94.6	84.6-115	

Laboratory Control Sample (LCS)

(LCS) R4251906-4 07/30/25 11:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	192	97.1	84.6-115	

Method Blank (MB)

(MB) R4249571-1 07/25/25 12:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Hexavalent	ND		0.00300	0.0100

Laboratory Control Sample (LCS)

(LCS) R4249571-2 07/25/25 12:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Hexavalent	0.500	0.499	99.8	88.0-118	

L1881998-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881998-05 07/25/25 12:49 • (MS) R4249571-3 07/25/25 12:49 • (MSD) R4249571-4 07/25/25 12:49

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	0.500	ND	0.446	0.437	89.2	87.4	1	85.0-115			2.04	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4253046-1 08/01/25 20:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	ND		0.00180	0.00500

L1881745-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1881745-10 08/01/25 20:57 • (DUP) R4253046-3 08/01/25 20:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

L1881918-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1881918-02 08/01/25 21:20 • (DUP) R4253046-6 08/01/25 21:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.0113	0.0111	1	1.79		20

Laboratory Control Sample (LCS)

(LCS) R4253046-2 08/01/25 20:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0965	96.5	87.1-120	

L1881745-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881745-12 08/01/25 21:04 • (MS) R4253046-4 08/01/25 21:05 • (MSD) R4253046-5 08/01/25 21:07

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	0.481	0.549	0.542	68.0	61.0	1	90.0-110	E V	E V	1.28	20

Method Blank (MB)

(MB) R4253044-1 08/01/25 21:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	ND		0.00180	0.00500

L1882021-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1882021-06 08/01/25 22:01 • (DUP) R4253044-6 08/01/25 22:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4253044-2 08/01/25 21:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.102	102	87.1-120	

Method Blank (MB)

(MB) R4253604-1 08/03/25 21:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	ND		0.00180	0.00500

L1882021-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1882021-04 08/03/25 21:32 • (DUP) R4253604-7 08/03/25 21:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4253604-2 08/03/25 21:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.100	100	87.1-120	

L1881491-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881491-02 08/03/25 21:19 • (MS) R4253604-3 08/03/25 21:20 • (MSD) R4253604-4 08/03/25 21:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0925	0.0922	92.5	92.2	1	90.0-110			0.325	20

L1881520-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1881520-01 08/04/25 11:15 • (DUP) R4253713-2 08/04/25 11:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.97	7.98	1	0.125		1

Sample Narrative:

OS: 7.97 at 18.5C

DUP: 7.98 at 18.7C

L1882396-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1882396-01 08/04/25 11:15 • (DUP) R4253713-3 08/04/25 11:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	5.30	5.31	1	0.189		1

Sample Narrative:

OS: 5.3 at 18.2C

DUP: 5.31 at 18.4C

Laboratory Control Sample (LCS)

(LCS) R4253713-1 08/04/25 11:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10 at 19.6C

Method Blank (MB)

(MB) R4252115-1 07/30/25 01:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	ND		0.0519	1.00
Sulfate	ND		0.0774	5.00

L1882067-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1882067-03 07/30/25 04:24 • (DUP) R4252115-3 07/30/25 04:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	20.6	20.8	1	0.871		15
Sulfate	ND	ND	1	1.62		15

L1882067-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1882067-04 07/30/25 05:17 • (DUP) R4252115-6 07/30/25 05:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	72.9	73.3	1	0.561		15
Sulfate	15.9	15.9	1	0.573		15

Laboratory Control Sample (LCS)

(LCS) R4252115-2 07/30/25 01:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.9	99.8	80.0-120	
Sulfate	40.0	39.6	99.1	80.0-120	

L1882067-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1882067-03 07/30/25 04:24 • (MS) R4252115-4 07/30/25 04:51 • (MSD) R4252115-5 07/30/25 05:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	20.6	57.7	56.4	92.6	89.5	1	80.0-120			2.19	15
Sulfate	40.0	ND	44.7	43.5	101	97.5	1	80.0-120			2.71	15

L1882067-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1882067-04 07/30/25 05:17 • (MS) R4252115-7 07/30/25 05:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	72.9	98.5	63.8	1	80.0-120	J6
Sulfate	40.0	15.9	52.8	92.4	1	80.0-120	

QUALITY CONTROL SUMMARY

L1881998-01,03,05

Method Blank (MB)

(MB) R4251470-1 07/30/25 11:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	ND		0.0000490	0.000200

Laboratory Control Sample (LCS)

(LCS) R4251470-2 07/30/25 11:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00310	103	80.0-120	

L1882173-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1882173-02 07/30/25 11:36 • (MS) R4251470-4 07/30/25 11:41 • (MSD) R4251470-5 07/30/25 11:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00309	0.00314	103	105	1	75.0-125			1.58	20

Method Blank (MB)

(MB) R4252248-1 07/31/25 15:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	ND		0.0000490	0.000200

Laboratory Control Sample (LCS)

(LCS) R4252248-2 07/31/25 15:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00293	97.8	80.0-120	

L1882254-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1882254-05 07/31/25 15:18 • (MS) R4252248-4 07/31/25 15:22 • (MSD) R4252248-5 07/31/25 15:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00328	0.00330	109	110	1	75.0-125			0.716	20

Method Blank (MB)

(MB) R4251568-1 07/30/25 14:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury, TCLP	0.000258		0.0000490	0.0100

Laboratory Control Sample (LCS)

(LCS) R4251568-2 07/30/25 14:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury, TCLP	0.0300	0.0316	105	80.0-120	

L1881998-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881998-02 07/30/25 14:24 • (MS) R4251568-4 07/30/25 14:29 • (MSD) R4251568-5 07/30/25 14:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury, TCLP	0.0300	ND	0.0325	0.0318	108	106	1	75.0-125			2.10	20

L1881998-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881998-06 07/30/25 14:34 • (MS) R4251568-6 07/30/25 14:37 • (MSD) R4251568-7 07/30/25 14:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury, TCLP	0.0300	ND	0.0306	0.0304	102	101	1	75.0-125			0.827	20

Method Blank (MB)

(MB) R4251761-1 07/30/25 19:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	ND		0.00750	0.0100
Arsenic	ND		0.00650	0.0100
Barium	0.00196	J	0.00170	0.00500
Beryllium	ND		0.000700	0.00200
Cadmium	ND	J	0.000700	0.00200
Calcium	0.144		0.0463	1.00
Chromium	0.00266	J	0.00140	0.0100
Cobalt	ND	J	0.00230	0.0100
Copper	ND		0.00530	0.0100
Lead	0.00324	J	0.00190	0.00500
Magnesium	ND		0.0111	1.00
Molybdenum	ND		0.00160	0.00500
Nickel	ND	J	0.00490	0.0100
Potassium	ND		0.102	1.00
Selenium	ND		0.00740	0.0100
Silver	ND		0.00280	0.00500
Sodium	ND		0.0985	1.00
Thallium	ND		0.00650	0.0100
Vanadium	ND		0.00240	0.0200
Zinc	ND		0.00590	0.0500

Laboratory Control Sample (LCS)

(LCS) R4251761-2 07/30/25 19:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	1.00	0.951	95.1	80.0-120	
Arsenic	1.00	0.929	92.9	80.0-120	
Barium	1.00	1.01	101	80.0-120	
Beryllium	1.00	1.00	100	80.0-120	
Cadmium	1.00	0.945	94.5	80.0-120	
Calcium	10.0	10.3	103	80.0-120	
Chromium	1.00	0.941	94.1	80.0-120	
Cobalt	1.00	0.920	92.0	80.0-120	
Copper	1.00	1.00	100	80.0-120	
Lead	1.00	0.949	94.9	80.0-120	
Magnesium	10.0	10.5	105	80.0-120	
Molybdenum	1.00	0.955	95.5	80.0-120	
Nickel	1.00	0.928	92.8	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4251761-2 07/30/25 19:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Potassium	10.0	10.1	101	80.0-120	
Selenium	1.00	0.907	90.7	80.0-120	
Silver	0.200	0.194	96.9	80.0-120	
Sodium	10.0	10.3	103	80.0-120	
Thallium	1.00	0.996	99.6	80.0-120	
Vanadium	1.00	0.977	97.7	80.0-120	
Zinc	1.00	0.957	95.7	80.0-120	

L1882018-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1882018-19 07/30/25 19:07 • (MS) R4251761-4 07/30/25 19:11 • (MSD) R4251761-5 07/30/25 19:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	1.00	ND	0.996	0.991	99.6	99.1	1	75.0-125			0.483	20
Arsenic	1.00	ND	1.00	0.986	99.4	97.8	1	75.0-125			1.56	20
Barium	1.00	0.136	1.14	1.13	101	99.4	1	75.0-125			1.11	20
Beryllium	1.00	ND	0.988	0.987	98.8	98.7	1	75.0-125			0.120	20
Cadmium	1.00	ND	0.983	0.974	98.3	97.3	1	75.0-125			1.01	20
Calcium	10.0	166	170	172	42.7	65.4	1	75.0-125	V	V	1.33	20
Chromium	1.00	ND	0.995	0.979	99.2	97.5	1	75.0-125			1.68	20
Cobalt	1.00	ND	0.977	0.959	97.4	95.6	1	75.0-125			1.86	20
Copper	1.00	ND	1.02	0.998	102	99.8	1	75.0-125			1.77	20
Lead	1.00	0.0157	0.998	0.982	98.2	96.6	1	75.0-125			1.62	20
Magnesium	10.0	41.0	49.1	50.2	81.1	92.2	1	75.0-125			2.24	20
Molybdenum	1.00	ND	1.00	0.995	99.2	98.7	1	75.0-125			0.520	20
Nickel	1.00	ND	0.976	0.961	97.2	95.7	1	75.0-125			1.53	20
Potassium	10.0	6.10	16.2	16.3	101	102	1	75.0-125			0.608	20
Selenium	1.00	ND	0.979	0.966	97.9	96.6	1	75.0-125			1.42	20
Silver	0.200	ND	0.198	0.194	99.0	97.0	1	75.0-125			2.11	20
Sodium	10.0	92.1	98.2	101	60.9	84.5	1	75.0-125	V		2.37	20
Thallium	1.00	ND	1.01	0.993	101	99.3	1	75.0-125			2.01	20
Vanadium	1.00	ND	0.957	0.966	95.7	96.6	1	75.0-125			1.00	20
Zinc	1.00	ND	0.993	0.993	98.1	98.0	1	75.0-125			0.0537	20

L1882042-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1882042-01 07/30/25 19:14 • (MS) R4251761-6 07/30/25 19:16 • (MSD) R4251761-7 07/30/25 19:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	1.00	ND	0.977	0.987	97.7	98.7	1	75.0-125			1.03	20
Arsenic	1.00	ND	0.976	0.984	97.6	98.4	1	75.0-125			0.873	20
Barium	1.00	0.0353	1.04	1.04	100	101	1	75.0-125			0.632	20
Beryllium	1.00	ND	0.989	0.985	98.9	98.5	1	75.0-125			0.452	20
Cadmium	1.00	ND	0.956	0.965	95.6	96.5	1	75.0-125			0.999	20
Calcium	10.0	32.9	41.7	41.5	88.6	86.3	1	75.0-125			0.562	20
Chromium	1.00	ND	0.969	0.982	96.4	97.7	1	75.0-125			1.33	20
Cobalt	1.00	ND	0.950	0.957	94.8	95.5	1	75.0-125			0.733	20
Copper	1.00	ND	0.991	0.991	99.1	99.1	1	75.0-125			0.0175	20
Lead	1.00	ND	0.961	0.971	96.1	97.1	1	75.0-125			1.01	20
Magnesium	10.0	5.84	15.8	15.8	99.9	99.9	1	75.0-125			0.0321	20
Molybdenum	1.00	0.0455	1.03	1.04	98.0	99.8	1	75.0-125			1.68	20
Nickel	1.00	ND	0.954	0.967	95.0	96.4	1	75.0-125			1.39	20
Potassium	10.0	2.01	11.9	11.8	99.1	98.0	1	75.0-125			0.961	20
Selenium	1.00	ND	0.953	0.962	95.3	96.2	1	75.0-125			0.940	20
Silver	0.200	ND	0.193	0.195	96.7	97.5	1	75.0-125			0.750	20
Sodium	10.0	80.9	89.4	88.9	84.6	79.9	1	75.0-125			0.529	20
Thallium	1.00	ND	0.997	1.00	99.7	100	1	75.0-125			0.562	20
Vanadium	1.00	ND	0.963	0.968	95.3	95.8	1	75.0-125			0.514	20
Zinc	1.00	ND	0.974	0.990	96.1	97.7	1	75.0-125			1.62	20

Method Blank (MB)

(MB) R4252216-1 07/31/25 12:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic, TCLP	ND		0.00650	0.100
Barium, TCLP	ND		0.00170	0.100
Cadmium, TCLP	ND		0.0463	0.100
Chromium, TCLP	0.0237		0.00140	0.100
Lead, TCLP	0.0257		0.00190	0.100
Selenium, TCLP	ND		0.00740	0.100
Silver, TCLP	0.0116		0.00280	0.100

Laboratory Control Sample (LCS)

(LCS) R4252216-2 07/31/25 12:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic, TCLP	10.0	11.1	111	80.0-120	
Barium, TCLP	10.0	11.1	111	80.0-120	
Cadmium, TCLP	10.0	10.9	109	80.0-120	
Chromium, TCLP	10.0	11.1	111	80.0-120	
Lead, TCLP	10.0	11.2	112	80.0-120	
Selenium, TCLP	10.0	10.9	109	80.0-120	
Silver, TCLP	2.00	2.13	107	80.0-120	

L1881998-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1881998-06 07/31/25 12:43 • (MS) R4252216-4 07/31/25 12:46 • (MSD) R4252216-5 07/31/25 12:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, TCLP	10.0	ND	10.9	11.0	109	110	1	75.0-125			0.969	20
Barium, TCLP	10.0	0.245	11.4	11.4	112	112	1	75.0-125			0.0302	20
Cadmium, TCLP	10.0	ND	11.0	11.0	110	110	1	75.0-125			0.366	20
Chromium, TCLP	10.0	ND	11.0	10.9	110	108	1	75.0-125			1.45	20
Lead, TCLP	10.0	ND	11.1	10.9	110	109	1	75.0-125			1.17	20
Selenium, TCLP	10.0	ND	10.7	10.8	107	108	1	75.0-125			0.904	20
Silver, TCLP	2.00	ND	2.13	2.14	106	107	1	75.0-125			0.494	20

L1882213-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1882213-06 07/31/25 12:50 • (MS) R4252216-6 07/31/25 12:51 • (MSD) R4252216-7 07/31/25 12:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, TCLP	10.0	ND	11.1	11.0	111	110	1	75.0-125			1.10	20
Barium, TCLP	10.0	1.50	12.7	12.3	112	108	1	75.0-125			3.50	20
Cadmium, TCLP	10.0	ND	10.9	10.7	109	107	1	75.0-125			2.16	20
Chromium, TCLP	10.0	ND	11.1	10.8	111	108	1	75.0-125			3.23	20
Lead, TCLP	10.0	ND	11.0	10.8	110	108	1	75.0-125			1.57	20
Selenium, TCLP	10.0	ND	10.9	10.7	109	107	1	75.0-125			1.86	20
Silver, TCLP	2.00	ND	2.18	2.11	109	106	1	75.0-125			3.40	20

Method Blank (MB)

(MB) R4250517-4 07/26/25 14:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.186	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Chloroethyl vinyl ether	ND		0.575	50.0
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	ND		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromochloromethane	ND		0.145	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromoform	ND		0.186	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	ND		0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	3.64	J	0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00
Vinyl chloride	ND		0.118	0.500

Method Blank (MB)

(MB) R4250517-4 07/26/25 14:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Xylenes, Total	ND		0.316	1.50
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*
(S) Toluene-d8	*101*			*80.0-120*
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4250517-1 07/26/25 10:36 • (LCSD) R4250517-2 07/26/25 10:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	25.0	4.60	4.83	18.4	19.3	75.0-125	J4	J4	4.88	20
1,1,1-Trichloroethane	25.0	4.88	4.85	19.5	19.4	73.0-124	J4	J4	0.617	20
1,1,2,2-Tetrachloroethane	25.0	5.16	5.38	20.6	21.5	65.0-130	J4	J4	4.17	20
1,1,2-Trichloroethane	25.0	4.90	4.94	19.6	19.8	80.0-120	J4	J4	0.813	20
1,1-Dichloroethane	25.0	4.87	4.86	19.5	19.4	70.0-126	J4	J4	0.206	20
1,1-Dichloroethene	25.0	4.67	4.75	18.7	19.0	71.0-124	J4	J4	1.70	20
1,2,3-Trichloropropane	25.0	4.90	5.11	19.6	20.4	73.0-130	J4	J4	4.20	20
1,2-Dibromo-3-Chloropropane	25.0	4.28	4.42	17.1	17.7	58.0-134	J4	J4	3.22	20
1,2-Dibromoethane	25.0	4.67	4.77	18.7	19.1	80.0-122	J4	J4	2.12	20
1,2-Dichloroethane	25.0	4.37	4.56	17.5	18.2	70.0-128	J4	J4	4.26	20
1,2-Dichloropropane	25.0	4.84	4.82	19.4	19.3	77.0-125	J4	J4	0.414	20
2-Butanone (MEK)	125	24.7	25.0	19.8	20.0	44.0-160	J4	J4	1.21	20
2-Chloroethyl vinyl ether	125	23.8	24.1	19.0	19.3	51.0-160	J J4	J J4	1.25	20
2-Hexanone	125	27.8	28.6	22.2	22.9	67.0-149	J4	J4	2.84	20
4-Methyl-2-pentanone (MIBK)	125	24.4	25.1	19.5	20.1	68.0-142	J4	J4	2.83	20
Acetone	125	26.6	27.8	21.3	22.2	19.0-160			4.41	27
Acrylonitrile	125	24.0	24.5	19.2	19.6	55.0-149	J4	J4	2.06	20
Benzene	25.0	4.83	4.71	19.3	18.8	70.0-123	J4	J4	2.52	20
Bromochloromethane	25.0	5.57	5.06	22.3	20.2	76.0-122	J4	J4	9.60	20
Bromodichloromethane	25.0	4.76	4.74	19.0	19.0	75.0-120	J4	J4	0.421	20
Bromoform	25.0	4.36	4.53	17.4	18.1	68.0-132	J4	J4	3.82	20
Bromomethane	25.0	5.52	5.67	22.1	22.7	10.0-160			2.68	25
Carbon disulfide	25.0	4.45	4.39	17.8	17.6	61.0-128	J4	J4	1.36	20
Carbon tetrachloride	25.0	4.93	4.91	19.7	19.6	68.0-126	J4	J4	0.406	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4250517-1 07/26/25 10:36 • (LCSD) R4250517-2 07/26/25 10:56

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	25.0	4.66	4.81	18.6	19.2	80.0-121	J4	J4	3.17	20
Chloroethane	25.0	3.89	3.81	15.6	15.2	47.0-150	J4	J4	2.08	20
Chloroform	25.0	4.66	4.64	18.6	18.6	73.0-120	J4	J4	0.430	20
Chloromethane	25.0	4.29	4.18	17.2	16.7	41.0-142	J4	J4	2.60	20
Dibromochloromethane	25.0	4.67	4.78	18.7	19.1	77.0-125	J4	J4	2.33	20
Dibromomethane	25.0	4.77	4.84	19.1	19.4	80.0-120	J4	J4	1.46	20
Ethylbenzene	25.0	4.80	4.71	19.2	18.8	79.0-123	J4	J4	1.89	20
Iodomethane	125	25.9	26.4	20.7	21.1	33.0-147	J4	J4	1.91	26
Methylene Chloride	25.0	4.74	4.44	19.0	17.8	67.0-120	J4	J4	6.54	20
Styrene	25.0	4.83	4.98	19.3	19.9	73.0-130	J4	J4	3.06	20
Tetrachloroethene	25.0	4.68	4.75	18.7	19.0	72.0-132	J4	J4	1.48	20
Toluene	25.0	4.78	4.92	19.1	19.7	79.0-120	J4	J4	2.89	20
Trichloroethene	25.0	4.51	4.48	18.0	17.9	78.0-124	J4	J4	0.667	20
Trichlorofluoromethane	25.0	4.60	4.63	18.4	18.5	59.0-147	J4	J4	0.650	20
Vinyl acetate	125	36.4	34.1	29.1	27.3	11.0-160			6.52	20
Vinyl chloride	25.0	4.36	4.23	17.4	16.9	67.0-131	J4	J4	3.03	20
Xylenes, Total	75.0	14.6	14.9	19.5	19.9	79.0-123	J4	J4	2.03	20
cis-1,2-Dichloroethene	25.0	4.67	4.61	18.7	18.4	73.0-120	J4	J4	1.29	20
cis-1,3-Dichloropropene	25.0	4.86	4.72	19.4	18.9	80.0-123	J4	J4	2.92	20
trans-1,2-Dichloroethene	25.0	4.59	4.72	18.4	18.9	73.0-120	J4	J4	2.79	20
trans-1,3-Dichloropropene	25.0	4.89	4.99	19.6	20.0	78.0-124	J4	J4	2.02	20
trans-1,4-Dichloro-2-butene	25.0	4.90	4.91	19.6	19.6	33.0-144	J J4	J J4	0.204	20
(S) 4-Bromofluorobenzene				*96.9*	*98.9*	*77.0-126*				
(S) Toluene-d8				*99.1*	*102*	*80.0-120*				
(S) 1,2-Dichloroethane-d4				*101*	*99.7*	*70.0-130*				

Method Blank (MB)

(MB) R4253016-5 08/01/25 15:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Acetone	1.74		1.05	25.0
(S) 4-Bromofluorobenzene	*102*			*77.0-126*
(S) Toluene-d8	*97.1*			*80.0-120*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4253016-1 08/01/25 13:49 • (LCSD) R4253016-2 08/01/25 14:09

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Acetone	125	148	82.3	118	65.8	19.0-160		J3	57.1	27
(S) 4-Bromofluorobenzene				*104*	*103*	*77.0-126*				
(S) Toluene-d8				*96.9*	*96.4*	*80.0-120*				
(S) 1,2-Dichloroethane-d4				*111*	*113*	*70.0-130*				

Method Blank (MB)

(MB) R4252949-4 08/01/25 05:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.186	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Chloroethyl vinyl ether	ND		0.575	50.0
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	1.68		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromoform	ND		0.186	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	ND		0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	1.99	J	0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00
Vinyl chloride	ND		0.118	0.500
Xylenes, Total	ND		0.316	1.50

Method Blank (MB)

(MB) R4252949-4 08/01/25 05:32

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 4-Bromofluorobenzene	*95.3*			*77.0-126*
(S) Toluene-d8	*100*			*80.0-120*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4252949-1 08/01/25 03:45 • (LCSD) R4252949-2 08/01/25 04:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	25.0	19.9	21.8	79.6	87.2	75.0-125			9.11	20
1,1,1-Trichloroethane	25.0	23.7	25.5	94.8	102	73.0-124			7.32	20
1,1,2,2-Tetrachloroethane	25.0	19.5	20.8	78.0	83.2	65.0-130			6.45	20
1,1,2-Trichloroethane	25.0	20.9	22.0	83.6	88.0	80.0-120			5.13	20
1,1-Dichloroethane	25.0	22.7	24.4	90.8	97.6	70.0-126			7.22	20
1,1-Dichloroethene	25.0	22.9	25.3	91.6	101	71.0-124			9.96	20
1,2,3-Trichloropropane	25.0	20.7	22.8	82.8	91.2	73.0-130			9.66	20
1,2-Dibromo-3-Chloropropane	25.0	20.8	22.5	83.2	90.0	58.0-134			7.85	20
1,2-Dibromoethane	25.0	20.9	23.0	83.6	92.0	80.0-122			9.57	20
1,2-Dichloroethane	25.0	24.2	25.1	96.8	100	70.0-128			3.65	20
1,2-Dichloropropane	25.0	22.7	24.6	90.8	98.4	77.0-125			8.03	20
2-Butanone (MEK)	125	109	123	87.2	98.4	44.0-160			12.1	20
2-Chloroethyl vinyl ether	125	110	117	88.0	93.6	51.0-160			6.17	20
2-Hexanone	125	102	115	81.6	92.0	67.0-149			12.0	20
4-Methyl-2-pentanone (MIBK)	125	112	121	89.6	96.8	68.0-142			7.73	20
Acetone	125	85.9	106	68.7	84.8	19.0-160			20.9	27
Acrylonitrile	125	112	121	89.6	96.8	55.0-149			7.73	20
Benzene	25.0	22.5	24.3	90.0	97.2	70.0-123			7.69	20
Bromodichloromethane	25.0	22.8	24.5	91.2	98.0	75.0-120			7.19	20
Bromoform	25.0	19.9	21.2	79.6	84.8	68.0-132			6.33	20
Bromomethane	25.0	28.1	30.5	112	122	10.0-160			8.19	25
Carbon disulfide	25.0	23.3	25.4	93.2	102	61.0-128			8.62	20
Carbon tetrachloride	25.0	23.6	25.5	94.4	102	68.0-126			7.74	20
Chlorobenzene	25.0	20.4	22.4	81.6	89.6	80.0-121			9.35	20
Chloroethane	25.0	22.8	24.9	91.2	99.6	47.0-150			8.81	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4252949-1 08/01/25 03:45 • (LCSD) R4252949-2 08/01/25 04:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroform	25.0	23.4	24.5	93.6	98.0	73.0-120			4.59	20
Chloromethane	25.0	25.2	29.3	101	117	41.0-142			15.0	20
Dibromochloromethane	25.0	20.4	22.1	81.6	88.4	77.0-125			8.00	20
Dibromomethane	25.0	22.9	23.8	91.6	95.2	80.0-120			3.85	20
Ethylbenzene	25.0	20.2	22.6	80.8	90.4	79.0-123			11.2	20
Iodomethane	125	142	169	114	135	33.0-147			17.4	26
Methylene Chloride	25.0	22.1	23.1	88.4	92.4	67.0-120			4.42	20
Styrene	25.0	20.9	22.9	83.6	91.6	73.0-130			9.13	20
Tetrachloroethene	25.0	21.4	23.2	85.6	92.8	72.0-132			8.07	20
Toluene	25.0	20.4	22.5	81.6	90.0	79.0-120			9.79	20
Trichloroethene	25.0	23.4	25.8	93.6	103	78.0-124			9.76	20
Trichlorofluoromethane	25.0	26.4	28.3	106	113	59.0-147			6.95	20
Vinyl acetate	125	90.1	76.2	72.1	61.0	11.0-160			16.7	20
Vinyl chloride	25.0	26.7	29.7	107	119	67.0-131			10.6	20
Xylenes, Total	75.0	61.4	68.2	81.9	90.9	79.0-123			10.5	20
cis-1,2-Dichloroethene	25.0	23.7	24.0	94.8	96.0	73.0-120			1.26	20
cis-1,3-Dichloropropene	25.0	21.7	23.6	86.8	94.4	80.0-123			8.39	20
trans-1,2-Dichloroethene	25.0	23.2	24.9	92.8	99.6	73.0-120			7.07	20
trans-1,3-Dichloropropene	25.0	20.2	21.9	80.8	87.6	78.0-124			8.08	20
trans-1,4-Dichloro-2-butene	25.0	19.3	19.7	77.2	78.8	33.0-144			2.05	20
(S) 4-Bromofluorobenzene				*95.6*	*95.5*	*77.0-126*				
(S) Toluene-d8				*93.6*	*94.7*	*80.0-120*				
(S) 1,2-Dichloroethane-d4				*110*	*113*	*70.0-130*				

Method Blank (MB)

(MB) R4253866-2 08/02/25 07:39

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Bromochloromethane	ND		0.145	0.500
(S) 4-Bromofluorobenzene	*97.4*			*77.0-126*
(S) Toluene-d8	*101*			*80.0-120*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4253866-1 08/02/25 06:38 • (LCSD) R4253866-3 08/02/25 09:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromochloromethane	25.0	27.2	26.3	109	105	76.0-122			3.36	20
(S) 4-Bromofluorobenzene				*98.8*	*98.3*	*77.0-126*				
(S) Toluene-d8				*99.1*	*99.6*	*80.0-120*				
(S) 1,2-Dichloroethane-d4				*109*	*111*	*70.0-130*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4252887-3 07/31/25 00:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
2,4,5-Trichlorophenol	ND		0.000236	0.0100
2,4,6-Trichlorophenol	ND		0.000100	0.0100
2,4-Dichlorophenol	ND		0.000102	0.0100
2,4-Dimethylphenol	ND		0.0000636	0.0100
2,4-Dinitrophenol	ND		0.00593	0.0100
2-Chlorophenol	ND		0.000133	0.0100
2-Nitrophenol	ND		0.000117	0.0100
4,6-Dinitro-2-methylphenol	ND		0.00112	0.0100
4-Chloro-3-methylphenol	ND		0.000131	0.0100
4-Nitrophenol	ND		0.000143	0.0100
Benzoic acid	ND		0.00170	0.0500
Pentachlorophenol	ND		0.000313	0.0100
(S) Phenol-d5	*24.3*			*10.0-120*
(S) p-Terphenyl-d14	*68.6*			*10.0-128*
(S) Nitrobenzene-d5	*56.7*			*10.0-127*
(S) 2-Fluorophenol	*31.8*			*10.0-120*
(S) 2-Fluorobiphenyl	*55.2*			*10.0-130*
(S) 2,4,6-Tribromophenol	*43.1*			*10.0-155*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4252887-1 07/30/25 23:20 • (LCSD) R4252887-2 07/30/25 23:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,4,5-Trichlorophenol	0.0500	0.0320	0.0332	64.0	66.4	44.0-120			3.68	22
2,4,6-Trichlorophenol	0.0500	0.0310	0.0340	62.0	68.0	42.0-120			9.23	23
2,4-Dichlorophenol	0.0500	0.0249	0.0275	49.8	55.0	36.0-120			9.92	26
2,4-Dimethylphenol	0.0500	0.0256	0.0280	51.2	56.0	33.0-120			8.96	26
2,4-Dinitrophenol	0.0500	0.0252	0.0278	50.4	55.6	10.0-120			9.81	39
2-Chlorophenol	0.0500	0.0215	0.0230	43.0	46.0	25.0-120			6.74	35
2-Nitrophenol	0.0500	0.0266	0.0287	53.2	57.4	31.0-120			7.59	29
4,6-Dinitro-2-methylphenol	0.0500	0.0301	0.0323	60.2	64.6	38.0-138			7.05	25
4-Chloro-3-methylphenol	0.0500	0.0274	0.0309	54.8	61.8	40.0-120			12.0	21
4-Nitrophenol	0.0500	0.0141	0.0150	28.2	30.0	10.0-120			6.19	33
Benzoic acid	0.100	0.0271	0.0301	27.1	30.1	10.0-120	J	J	10.5	40
Pentachlorophenol	0.0500	0.0224	0.0245	44.8	49.0	23.0-120			8.96	25
(S) Phenol-d5				*29.2*	*29.2*	*10.0-120*				
(S) p-Terphenyl-d14				*73.4*	*71.4*	*10.0-128*				
(S) Nitrobenzene-d5				*59.9*	*57.2*	*10.0-127*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4252887-1 07/30/25 23:20 • (LCSD) R4252887-2 07/30/25 23:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorophenol				*35.3*	*37.5*	*10.0-120*				
(S) 2-Fluorobiphenyl				*67.4*	*66.5*	*10.0-130*				
(S) 2,4,6-Tribromophenol				*67.0*	*71.0*	*10.0-155*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
K9	Test replicates show more than 30% difference between high and low values.
T8	Sample(s) received past/too close to holding time expiration.

GLOSSARY OF TERMS

Qualifier	Description
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Qrtly WWTP-Leachate List 1(1,4,7,10)

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
500

Lab Project #
WMCENIA-00003

Collected by (print):
Kenneth Smith

Site/Facility ID #
IA02

P.O. #
14491265

Collected by (signature):

Quote #

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8270 100ml Amb NoPres	ALK,Cl,SO4, pH 125mlHDPE-NoPres	BODLL 1L-HDPE-NoPres	CN 250mlHDPEAmb-NaOH 7/12 RV	CR6 250mlHDPE-NoPres	Metals 250mlHDPE-HNO3	NH3,NO2NO3,PT LL,TKN 250mlHDPE H2SO4 L2	OGHEX 1L-Clr-WT-HCl	TCLP Mtls 1L-Clr-NoPres	TSS 1L HDPE NoPres	Remarks	Sample # (lab only)
LEACHATE POND #1	G	GW		7/24/25	1120	15	X	X	X	X	X	X	X	X	X	X		-01
LEACHATE POND #2	G	GW		7/24/25	1130	15	X	X	X	X	X	X	X	X	X	X		-03
LEACHATE POND #3	G	GW		7/24/25	1040	15	X	X	X	X	X	X	X	X	X	X		-05
LEACHATE POND #4	G	GW		7/24/25	1050	15	X	X	X	X	X	X	X	X	X	X		-07

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1681998
C177

Acctnum: **WMCENIA**
Template:**T237544**
Prelogin: **P1159883**
PM: **3564 - Chad A Upchurch**
PB:

Shipped Via: **FedEx Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #
PH - 10BDH26311
TRC - 5090A93

Sample Receipt Checklist
COC Seal Present/Intact: X NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: X Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	7/24/25	1400	FEDEX	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 60
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 07/25/2025 Time: 0900
				Hold: Condition: NCF / OK

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Qrtly WWTP-Leachate List 1(1,4,7,10)

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
500

Lab Project #
WMCENIA-00003

Collected by (print):
Kemell Smith

Site/Facility ID #
IA02

P.O. #
14491265

Collected by (signature):

Immediately Packed on Ice N ___ Y b

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260LLAP9C 40mlAmb-HCl								Remarks	Sample # (lab only)
LEACHATE POND #1	G	GW		7/24/25	1120	15	X									-902
LEACHATE POND #2	G	GW		7/24/25	1130	15	X									-071
LEACHATE POND #3	G	GW		7/24/25	1040	15	X									-05
LEACHATE POND #4	G	GW		7/24/25	1050	15	X									-04

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L698498

Table #

Acctnum: **WMCENIA**
Template:**T237544**
Prelogin: **P1159883**
PM: **3564 - Chad A Upchurch**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: X NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: X Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
W	7/24/25	1400	FEDEX		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 60	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 07/25/25 Time: 0900	Hold: / Condition: NCF / OK

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Laboratory Use Only / Lab I.D.: 4881998

Site Name: Central Disposal

Sample I.D.: Leachate Pond 1

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: [D] D - Direct, I - Indirect, V - Visual

Sampling Equipment: [D] D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other [ ]

Sample Type: [ ] (Grab) / Composite (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
7/24/25	1120	8.19	1130	28.5			

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Moderate Color: Brown Other:

Sheen Present [Y] or [(N)] Foam Present: [(Y)] or [N] Floating Solids: [(Y)] or [N]

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: 10 mph E Precipitation: [Y] or [(N)]

Specific Comments:

Date	Name	Signature	Company
7/24/25	Kenneth Smith		Alliance
/ /			

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Site Name: Central Disposal

Sample I.D.: Leachate pond 2

Laboratory Use Only / Lab I.D.: 4881998

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D — D - Direct, I - Indirect, V - Visual

Sampling Equipment: D — D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other

Sample Type: Grab / Composite (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
7/24/25	1130	8.09	1092	27.8			

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Moderate Color: Brown Other:

Sheen Present Y or (N) Foam Present: (Y) or N Floating Solids: (Y) or N

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: Precipitation: Y or N

Specific Comments:

Date	Name	Signature	Company
7/24/25	Kenneth Smith		Alliance
/ /			

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Site Name: Central Disposal

Sample I.D.: Leachate pond 3

Laboratory Use Only / Lab I.D.: L1881998

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D — D - Direct, I - Indirect, V - Visual

Sampling Equipment: D — D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other

Sample Type: [ ] Grab / Composite (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
7/24/25	1040	7.91	1139	25.3			

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Moderate Color: green Other:

Sheen Present [Y] or [N] Foam Present: [Y] or [N] Floating Solids: [Y] or [N]

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: 10mph E Precipitation: [Y] or [N]

Specific Comments:

Date	Name	Signature	Company
7/24/25	Kenneth Smith		Alliance

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Central Disposal
Site No.:
Sample Point: Pond 4 (Leachate pond) Sample ID: 4

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1881998

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
	:	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or (N)

Purging Device: F
Sampling Device: F
X-Other:

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)
Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____
Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)
Depth to Water (DTW) (from TOC) (ft)
Groundwater Elevation (site datum, from TOC) (ft/msl)
Total Well Depth (from TOC) (ft)
Stick Up (from ground elevation) (ft)
Casing ID (in)
Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
:	1st	1st	1st					
:	2nd	2nd	2nd					
:	3rd	3rd	3rd					
:	4th	4th	4th					
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
7/24/25	7.89	14.9	25.2				

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: Moderate Color: green/Black Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

Leachate Data sheet not provided used this in replacement. Sampled @ 1050

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
7.24.25	Kenneth Smith		Alliance

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

8661881

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Shipping Batch Detail Report

Batch ID: P1159883 Date: 06/16/25

Client: WMCENIA Central Disposal Systems, Inc. Landfill **Active: Y**
TSR: Chad A Upchurch

Order#	Frequency	Type	Description	Due Dt	#Kit	Template
P1159883	As Needed	BRANCH		06/16/25	N 1	T237544

Proj.Desc.: Qrtly WWTP-Leachate List 1(1, ESC Key : WMCENIA-00003
Project No: 500 Site ID: IA02

Comments:

Client ID: LEACHATE POND #1 Sample No:P1159883-01

Packing List: Analysis Required	QTY	Container/Preservative
SVOCs	2	100ml Amb NoPres
Silver,Arsenic,Barium,Beryllium,	1	250mlHDPE-HNO3
Calcium,Cadmium,Cobalt,Chromium,		
Alkalinity,Alkalinity, Bicarbonate	1	125mlHDPE-NoPres
Chloride by IC,pH,Sulfate by IC		
BOD Low Level	1	1L-HDPE-NoPres
Cyanide	1	250mlHDPEAmb-NaOH
Chromium,Hexavalent	1	250mlHDPE-NoPres
Ammonia Nitrogen,Nitrate-Nitrite,	1	250mlHDPE-H2SO4
Phosphorus,Total (Low Level),		
Oil & Grease (Hexane Extr)	2	1L-Clr-WT-HCl
TCLP Extraction	1	1L-Clr-NoPres
Suspended Solids	1	1L-HDPE NoPres
Volatiles (Low Level)	3	40mlAmb-HCl
Total Cntrs:	15	

Client ID: LEACHATE POND #2 Sample No:P1159883-07

Packing List: Analysis Required	QTY	Container/Preservative
SVOCs	2	100ml Amb NoPres
Silver,Arsenic,Barium,Beryllium,	1	250mlHDPE-HNO3
Calcium,Cadmium,Cobalt,Chromium,		
Alkalinity,Alkalinity, Bicarbonate	1	125mlHDPE-NoPres
Chloride by IC,pH,Sulfate by IC		
BOD Low Level	1	1L-HDPE-NoPres
Cyanide	1	250mlHDPEAmb-NaOH
Chromium,Hexavalent	1	250mlHDPE-NoPres
Ammonia Nitrogen,Nitrate-Nitrite,	1	250mlHDPE-H2SO4
Phosphorus,Total (Low Level),		
Oil & Grease (Hexane Extr)	2	1L-Clr-WT-HCl
TCLP Extraction	1	1L-Clr-NoPres
Suspended Solids	1	1L-HDPE NoPres
Volatiles (Low Level)	3	40mlAmb-HCl
Total Cntrs:	15	

Client ID: LEACHATE POND #3 Sample No:P1159883-08

Packing List: Analysis Required	QTY	Container/Preservative

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Shipping Batch Detail Report

Batch ID: P1159883 Date: 06/16/25

Client: WMCENIA Central Disposal Systems, Inc. Landfill **Active: Y**
TSR: Chad A Upchurch

SVOCs	2	100ml Amb NoPres
Silver,Arsenic,Barium,Beryllium,	1	250mlHDPE-HNO3
Calcium,Cadmium,Cobalt,Chromium,		
Alkalinity,Alkalinity, Bicarbonate	1	125mlHDPE-NoPres
Chloride by IC,pH,Sulfate by IC		
BOD Low Level	1	1L-HDPE-NoPres
Cyanide	1	250mlHDPEAmb-NaOH
Chromium,Hexavalent	1	250mlHDPE-NoPres
Ammonia Nitrogen,Nitrate-Nitrite,	1	250mlHDPE-H2SO4
Phosphorus,Total (Low Level),		
Oil & Grease (Hexane Extr)	2	1L-Clr-WT-HCl
TCLP Extraction	1	1L-Clr-NoPres
Suspended Solids	1	1L-HDPE NoPres
Volatiles (Low Level)	3	40mlAmb-HCl
Total Cntrs:	15	

Client ID: LEACHATE POND #4 Sample No:P1159883-09

Packing List:

Analysis Required	QTY	Container/Preservative
SVOCs	2	100ml Amb NoPres
Silver,Arsenic,Barium,Beryllium,	1	250mlHDPE-HNO3
Calcium,Cadmium,Cobalt,Chromium,		
Alkalinity,Alkalinity, Bicarbonate	1	125mlHDPE-NoPres
Chloride by IC,pH,Sulfate by IC		
BOD Low Level	1	1L-HDPE-NoPres
Cyanide	1	250mlHDPEAmb-NaOH
Chromium,Hexavalent	1	250mlHDPE-NoPres
Ammonia Nitrogen,Nitrate-Nitrite,	1	250mlHDPE-H2SO4
Phosphorus,Total (Low Level),		
Oil & Grease (Hexane Extr)	2	1L-Clr-WT-HCl
TCLP Extraction	1	1L-Clr-NoPres
Suspended Solids	1	1L-HDPE NoPres
Volatiles (Low Level)	3	40mlAmb-HCl
Total Cntrs:	15	

Outbound Method of Shipment: FedEX Ground

Return Method of Shipment: Paid By

Shipping Audit Trail Date Shipped:_____ Carrier:_____ # Pieces:_____

Cooler:_____ Size:____ Color:_____ Initials:_____

Ship To: Central Disposal Systems, Inc. Landfill
Robin Worlie/Mike Hammer
4500 Ball Road NE
Circle Pines, MN 55014-1819

Final Container Counts

8	100ml Amb NoPres
4	125mlHDPE-NoPres
4	1L-Clr-NoPres
8	1L-Clr-WT-HCl
4	1L-HDPE NoPres
4	1L-HDPE-NoPres

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Est. 1970

Shipping Batch Detail Report

Batch ID: P1159883 Date: 06/16/25

Client: WMCENIA Central Disposal Systems, Inc. Landfill **Active: Y**
TSR: Chad A Upchurch

4	250mlHDPE-H2SO4
4	250mlHDPE-HNO3
4	250mlHDPE-NoPres
4	250mlHDPEAmb-NaOH
12	40mlAmb-HCl
60	-- Final Total

Multiple Parcel Form

L# 1881998

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4493 5929 3737	TA9	8.5	-0.1	8.4	Yes / No / ~~Not Present~~
4493 5928 3129	TA9	11.5	-0.1	11.4	Yes / No / ~~Not Present~~
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Name

07/25/2025
Date

07/25/25-L1881998-WMCENIA R2/R3/R4/RX/EX

Time estimate: oh **Time spent:** oh **Grouping date:** 28 July 2025

Members

DP Devin Piedimonte (responsible) CU Chad Upchurch

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Custody seal not intact
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Devin Piedimonte *25 July 2025 11:16 AM*

OOT for both cooler, TLA9 8.5-0.1=8.4**C and TLA9 11.5-0.1=11.4**C.
-01 and -03 did not pass pH test.

Chad Upchurch *28 July 2025 2:40 PM*

Per client, please log and proceed with all requested analysis.

Troy Dunlap *28 July 2025 2:44 PM*

Done.

ANALYTICAL REPORT

November 21, 2025

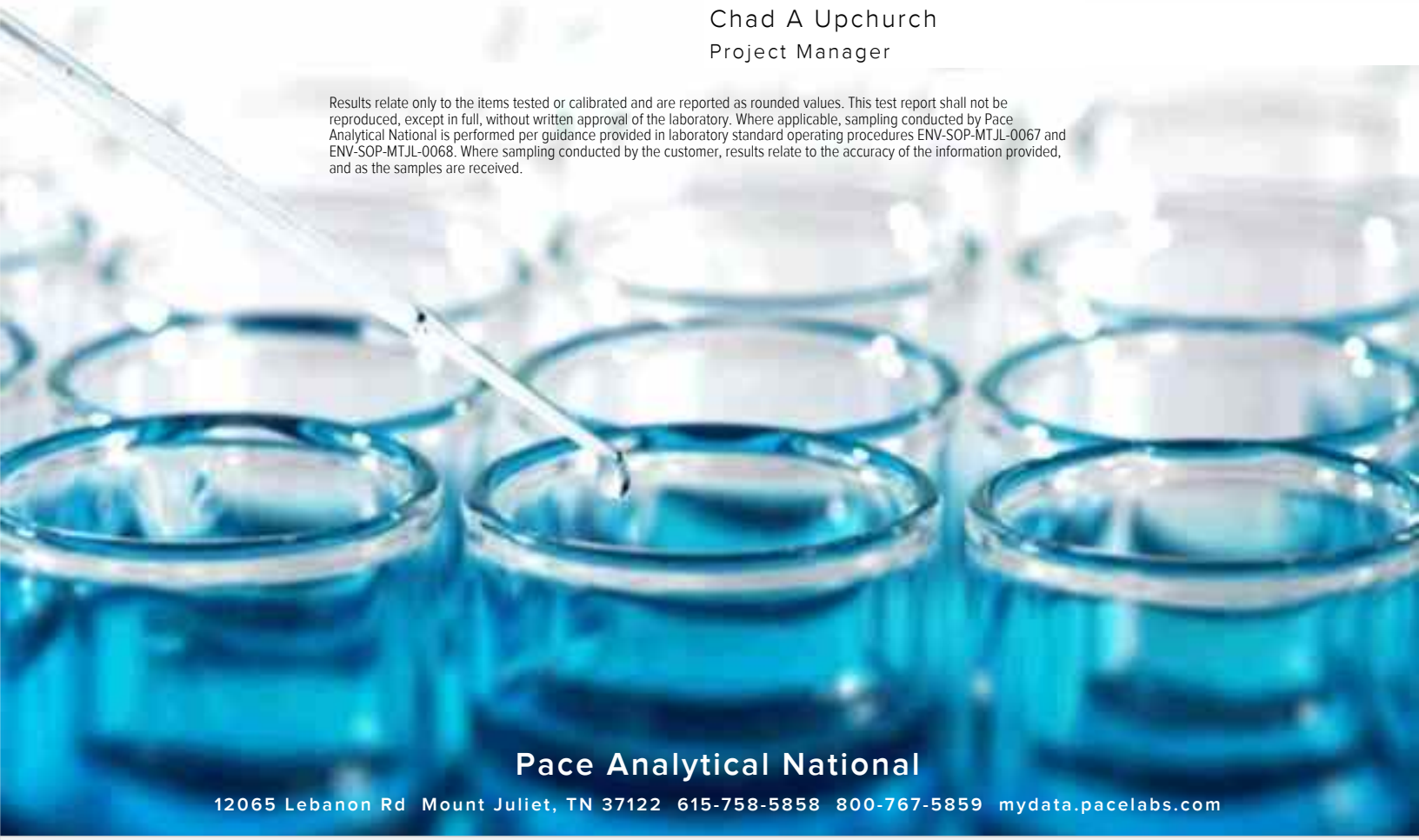
Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1910502
Samples Received:	10/23/2025
Project Number:	500
Description:	Qrtly WWTP-Leachate List 1(1,4,7,10)
Site:	IA02
Report To:	Aaron Rebmann 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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LEACHATE POND #1 L1910502-01

Collected by: Kenneth Smith | Collected date/time: 10/22/25 11:20 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2628679	1	10/28/25 14:43	10/28/25 14:43	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2626468	1	10/23/25 15:38	10/23/25 16:57	GJS	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2627083	1	10/25/25 07:45	10/25/25 17:14	DGC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2626873	1	10/24/25 15:15	10/24/25 15:15	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2626538	200	10/23/25 21:29	10/23/25 21:29	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2626801	100	10/24/25 06:38	10/24/25 19:12	WFS	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2628679	5	10/28/25 14:41	10/28/25 14:41	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2628880	50	10/29/25 09:39	11/03/25 19:47	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2626223	10	10/23/25 13:22	10/28/25 11:04	MEL	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2626173	1	10/23/25 10:53	10/23/25 10:53	DAM	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2627888	5	10/26/25 08:54	10/27/25 10:54	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2626663	1	10/24/25 01:10	10/24/25 01:10	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626060	5	10/27/25 22:47	10/27/25 22:47	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626060	50	10/27/25 22:58	10/27/25 22:58	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2626235	10	10/27/25 21:19	10/29/25 12:14	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2628231	1	10/28/25 15:47	10/28/25 19:13	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2628231	5	10/28/25 15:47	10/29/25 00:21	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2628157	10	10/27/25 07:17	10/27/25 07:17	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2627864	109	10/28/25 06:24	10/29/25 05:38	TSC	Mt. Juliet, TN

LEACHATE POND #2 L1910502-02

Collected by: Kenneth Smith | Collected date/time: 10/22/25 11:10 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2628679	1	10/28/25 14:45	10/28/25 14:45	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2626468	1	10/23/25 15:38	10/23/25 16:57	GJS	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2627083	1	10/25/25 07:45	10/25/25 17:14	DGC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2626873	1	10/24/25 15:19	10/24/25 15:19	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2626538	100	10/23/25 21:31	10/23/25 21:31	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2626801	20	10/24/25 06:38	10/24/25 19:14	WFS	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2628679	5	10/28/25 14:44	10/28/25 14:44	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2628880	50	10/29/25 09:39	11/03/25 19:48	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2626223	10	10/23/25 13:26	10/28/25 11:10	MEL	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2626173	1	10/23/25 10:53	10/23/25 10:53	DAM	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2627888	1	10/26/25 08:54	10/27/25 10:56	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2626663	1	10/24/25 01:10	10/24/25 01:10	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626060	5	10/27/25 23:09	10/27/25 23:09	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626060	50	10/27/25 23:19	10/27/25 23:19	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2626235	10	10/27/25 21:19	10/29/25 12:17	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2628231	1	10/28/25 15:47	10/28/25 19:15	BAG	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2628231	5	10/28/25 15:47	10/29/25 00:23	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2628157	10	10/27/25 07:36	10/27/25 07:36	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2627864	20	10/28/25 06:24	10/29/25 05:16	TSC	Mt. Juliet, TN

LEACHATE POND #3 L1910502-03

Collected by: Kenneth Smith | Collected date/time: 10/22/25 10:25 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2628679	1	10/28/25 18:10	10/28/25 18:10	CAT	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2626468	1	10/23/25 15:38	10/23/25 16:57	GJS	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2627083	1	10/25/25 07:45	10/25/25 17:14	DGC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2626873	1	10/24/25 15:24	10/24/25 15:24	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2626538	10	10/23/25 21:32	10/23/25 21:32	RTW	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

LEACHATE POND #3 L1910502-03

Collected by: Kenneth Smith | Collected date/time: 10/22/25 10:25 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 351.2	WG2626801	200	10/24/25 06:38	10/24/25 18:09	WFS	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2628679	100	10/28/25 18:10	10/28/25 18:10	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2628880	50	10/29/25 09:39	11/03/25 19:50	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2626223	1	10/23/25 13:34	10/28/25 11:13	MEL	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2626173	1	10/23/25 10:54	10/23/25 10:54	DAM	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2627888	100	10/26/25 08:54	10/27/25 10:57	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2626663	1	10/24/25 01:10	10/24/25 01:10	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626060	5	10/27/25 23:30	10/27/25 23:30	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626060	50	10/27/25 23:41	10/27/25 23:41	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2626235	10	10/27/25 21:19	10/29/25 12:20	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2626438	1	10/24/25 14:12	10/24/25 19:31	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2626438	5	10/24/25 14:12	10/25/25 12:48	BAG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2628000	1	10/26/25 14:56	10/26/25 14:56	ADM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2627864	10	10/28/25 06:24	10/29/25 03:49	TSC	Mt. Juliet, TN

LEACHATE POND #4 L1910502-04

Collected by: Kenneth Smith | Collected date/time: 10/22/25 10:35 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2628679	1	11/19/25 19:03	11/19/25 19:03	KMB	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2626468	1	10/23/25 15:38	10/23/25 16:57	GJS	Mt. Juliet, TN
Wet Chemistry by Method 1664B	WG2627083	1	10/25/25 07:45	10/25/25 17:14	DGC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2626873	1	10/24/25 15:30	10/24/25 15:30	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2626541	400	10/23/25 23:16	10/23/25 23:16	RTW	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2643209	100	11/19/25 09:29	11/19/25 19:03	KMB	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2628679	10	10/28/25 14:48	10/28/25 14:48	CAT	Mt. Juliet, TN
Wet Chemistry by Method 365.1	WG2628880	100	10/29/25 09:39	11/03/25 19:54	CAT	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2011	WG2626223	10	10/23/25 13:41	10/28/25 11:19	MEL	Mt. Juliet, TN
Wet Chemistry by Method 7196A	WG2626173	2	10/23/25 10:55	10/23/25 10:55	DAM	Mt. Juliet, TN
Wet Chemistry by Method 9012B	WG2627888	10	10/26/25 08:54	10/27/25 11:02	KMB	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2626663	1	10/24/25 01:10	10/24/25 01:10	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626060	5	10/28/25 00:13	10/28/25 00:13	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626060	50	10/28/25 00:24	10/28/25 00:24	DLH	Mt. Juliet, TN
Mercury by Method 7470A	WG2626235	10	10/27/25 21:19	10/29/25 12:23	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2628231	9	10/28/25 15:47	10/28/25 19:16	BAG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2628157	10	10/27/25 06:58	10/27/25 06:58	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2627864	10.5	10/28/25 06:24	10/29/25 04:11	TSC	Mt. Juliet, TN

LEACHATE POND #1 L1910502-05

Collected by: Kenneth Smith | Collected date/time: 10/22/25 11:20 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2626424	1	10/23/25 16:45	10/23/25 16:45	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2628117	1	10/27/25 14:37	10/28/25 13:13	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627999	1	10/26/25 22:40	10/28/25 13:06	NMM	Mt. Juliet, TN

LEACHATE POND #2 L1910502-06

Collected by: Kenneth Smith | Collected date/time: 10/22/25 11:10 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2626424	1	10/23/25 16:45	10/23/25 16:45	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2628117	1	10/27/25 14:37	10/28/25 13:16	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627999	1	10/26/25 22:40	10/28/25 13:09	NMM	Mt. Juliet, TN

LEACHATE POND #3 L1910502-07

Collected by: Kenneth Smith
Collected date/time: 10/22/25 10:25
Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2626424	1	10/23/25 16:45	10/23/25 16:45	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2628117	1	10/27/25 14:37	10/28/25 13:19	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627999	1	10/26/25 22:40	10/28/25 13:11	NMM	Mt. Juliet, TN

LEACHATE POND #4 L1910502-08

Collected by: Kenneth Smith
Collected date/time: 10/22/25 10:35
Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2626424	1	10/23/25 16:45	10/23/25 16:45	PNK	Mt. Juliet, TN
Mercury by Method 7470A	WG2627337	1	10/24/25 19:30	10/26/25 19:46	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627999	1	10/26/25 22:40	10/28/25 13:13	NMM	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

WG2627864; 8270: Benzidine is reporting with critically low recovery in the laboratory control samples. This compound is a method defined poor performer. Results are estimated.

Sample Delivery Group (SDG) Narrative

The laboratory analysis was performed from an unpreserved, insufficiently or inadequately preserved sample.

Batch	Method	Lab Sample ID
WG2626235	7470A	L1910502-04
WG2626541	350.1	L1910502-04
WG2627083	1664B	L1910502-01, 02, 04
WG2628231	6010C	L1910502-04
WG2628679	353.2	L1910502-04
WG2628880	365.1	L1910502-04

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch	Method	Lab Sample ID
WG2626173	7196A	L1910502-03, 04
WG2626663	9040C	L1910502-01, 02, 03, 04

Wet Chemistry by Method 351.2

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2626801	(MS) R4291788-3	Kjeldahl Nitrogen, TKN
WG2626801	(MSD) R4291788-4	Kjeldahl Nitrogen, TKN
WG2643209	(MS) R4303428-3	Kjeldahl Nitrogen, TKN
WG2643209	(MSD) R4303428-4	Kjeldahl Nitrogen, TKN

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2626801	(MSD) R4291788-4	Kjeldahl Nitrogen, TKN
WG2643209	(MS) R4303428-3, (MSD) R4303428-4	Kjeldahl Nitrogen, TKN

Wet Chemistry by Method 351.2

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2643209	(MSD) R4303428-6	Kjeldahl Nitrogen, TKN

Wet Chemistry by Method 5210 B-2011

The associated batch QC was outside the lower control limits; associated data has a potential negative bias.

Batch	Lab Sample ID	Analytes
WG2626223	(LCS) R4292877-1, L1910502-01, 02, 03, 04	BOD

Wet Chemistry by Method 9012B

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2627888	(MS) R4292346-5	Cyanide

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2627888	(MSD) R4292346-6	Cyanide

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2627888	(MSD) R4292346-6	Cyanide

Wet Chemistry by Method 9056A

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2626060	(MS) R4292696-7	Sulfate

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2626060	(MS) R4292696-7	Sulfate

Metals (ICP) by Method 6010C

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2626438	(MS) R4291875-4, (MSD) R4291875-5	Calcium and Sodium
WG2628231	(MS) R4293212-4, (MSD) R4293212-5	Calcium

Volatile Organic Compounds (GC/MS) by Method 8260C

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2628000	L1910502-03	1,1,2,2-Tetrachloroethane, Chloroethane, Chloromethane and Vinyl chloride
WG2628157	L1910502-01	1,1,2,2-Tetrachloroethane, 1,1-Dichloroethene, 4-Methyl-2-pentanone (MIBK), Chloroethane, Chloromethane, Vinyl acetate and Vinyl chloride
WG2628157	L1910502-02	1,1,2,2-Tetrachloroethane, 1,1-Dichloroethene, 4-Methyl-2-pentanone (MIBK), Chloroethane, Chloromethane, Vinyl acetate and Vinyl chloride
WG2628157	L1910502-04	1,1,2,2-Tetrachloroethane, 1,1-Dichloroethene, 4-Methyl-2-pentanone (MIBK), Chloroethane, Chloromethane, Vinyl acetate and Vinyl chloride

Volatile Organic Compounds (GC/MS) by Method 8260C

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2628157	(MS) R4293589-5, (MSD) R4293589-6	2-Chloroethyl vinyl ether

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2627864	L1910502-01	2,4-Dimethylphenol
WG2627864	L1910502-02	2,4-Dimethylphenol
WG2627864	L1910502-03	2,4-Dimethylphenol
WG2627864	L1910502-04	2,4-Dimethylphenol

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2627864	2,4,6-Tribromophenol	L1910502-03
WG2627864	2-Fluorophenol	L1910502-03
WG2627864	Phenol-d5	L1910502-03

Surrogate recovery cannot be used for control limit evaluation due to dilution.

Batch	Analyte	Lab Sample ID
WG2627864	2,4,6-Tribromophenol	L1910502-01, 02
WG2627864	2-Fluorobiphenyl	L1910502-01, 02
WG2627864	2-Fluorophenol	L1910502-01, 02
WG2627864	Nitrobenzene-d5	L1910502-01, 02
WG2627864	Phenol-d5	L1910502-01, 02
WG2627864	p-Terphenyl-d14	L1910502-01, 02

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.3	su

Calculated Results

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Total Nitrogen	944		0.100	1	10/28/2025 14:43	WG2628679

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	65.0		4.00	1	10/23/2025 16:57	WG2626468

Wet Chemistry by Method 1664B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5.00	1	10/25/2025 17:14	WG2627083

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	2840		20.0	1	10/24/2025 15:15	WG2626873
Alkalinity,Bicarbonate	2840		20.0	1	10/24/2025 15:15	WG2626873

Sample Narrative:

L1910502-01 WG2626873: Endpoint pH 4.5 HEDASPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	431		6.34	200	10/23/2025 21:29	WG2626538

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	944		3.50	100	10/24/2025 19:12	WG2626801

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	0.115		0.100	5	10/28/2025 14:41	WG2628679

Sample Narrative:

L1910502-01 WG2628679: Dilution due to matrix.

Wet Chemistry by Method 365.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Phosphorus,Total	8.70		0.0500	50	11/03/2025 19:47	WG2628880

Wet Chemistry by Method 5210 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	71.0	J-	33.3	10	10/28/2025 11:04	WG2626223

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND		0.0100	1	10/23/2025 10:53	WG2626173

Wet Chemistry by Method 9012B

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.0100	5	10/27/2025 10:54	WG2627888

Sample Narrative:

L1910502-01 WG2627888: Dilution due to matrix.

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.19	T8	1	10/24/2025 01:10	WG2626663

Sample Narrative:

L1910502-01 WG2626663: 8.19 at 18.9C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chloride	1960		2.60	50	10/27/2025 22:58	WG2626060
Sulfate	13.8		5.00	5	10/27/2025 22:47	WG2626060

Sample Narrative:

L1910502-01 WG2626060: Dilution due to matrix impact on instrumentation at lower dilution

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00107		0.000490	10	10/29/2025 12:14	WG2626235

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	0.0128		0.0100	1	10/28/2025 19:13	WG2628231
Arsenic	0.0378		0.0100	1	10/28/2025 19:13	WG2628231
Barium	0.564		0.00500	1	10/28/2025 19:13	WG2628231
Beryllium	ND		0.00200	1	10/28/2025 19:13	WG2628231
Cadmium	ND		0.00200	1	10/28/2025 19:13	WG2628231
Calcium	65.9		1.00	1	10/28/2025 19:13	WG2628231
Chromium	0.0809		0.0100	1	10/28/2025 19:13	WG2628231
Cobalt	0.0323		0.0100	1	10/28/2025 19:13	WG2628231
Copper	ND		0.0100	1	10/28/2025 19:13	WG2628231
Lead	ND		0.00500	1	10/28/2025 19:13	WG2628231
Magnesium	103		1.00	1	10/28/2025 19:13	WG2628231
Molybdenum	ND		0.0100	1	10/28/2025 19:13	WG2628231
Nickel	0.191		0.0100	1	10/28/2025 19:13	WG2628231

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Potassium	394		1.00	1	10/28/2025 19:13	WG2628231
Selenium	ND		0.0250	1	10/28/2025 19:13	WG2628231
Silver	ND		0.00600	1	10/28/2025 19:13	WG2628231
Sodium	1530		1.00	5	10/29/2025 00:21	WG2628231
Thallium	ND		0.0200	1	10/28/2025 19:13	WG2628231
Vanadium	0.0243		0.0200	1	10/28/2025 19:13	WG2628231
Zinc	ND		0.0500	1	10/28/2025 19:13	WG2628231

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.20	10	10/27/2025 07:17	WG2628157
1,1,1-Trichloroethane	ND		1.00	10	10/27/2025 07:17	WG2628157
1,1,2,2-Tetrachloroethane	ND	C3	1.30	10	10/27/2025 07:17	WG2628157
1,1,2-Trichloroethane	ND		1.86	10	10/27/2025 07:17	WG2628157
1,1-Dichloroethane	ND		1.14	10	10/27/2025 07:17	WG2628157
1,1-Dichloroethene	ND	C3	1.88	10	10/27/2025 07:17	WG2628157
1,2,3-Trichloropropane	ND		2.50	10	10/27/2025 07:17	WG2628157
1,2-Dibromo-3-Chloropropane	ND		3.25	10	10/27/2025 07:17	WG2628157
1,2-Dibromoethane	ND		1.93	10	10/27/2025 07:17	WG2628157
1,2-Dichloroethane	ND		1.08	10	10/27/2025 07:17	WG2628157
1,2-Dichloropropane	ND		1.90	10	10/27/2025 07:17	WG2628157
2-Butanone (MEK)	ND		12.8	10	10/27/2025 07:17	WG2628157
2-Chloroethyl vinyl ether	ND		50.0	10	10/27/2025 07:17	WG2628157
2-Hexanone	ND		7.57	10	10/27/2025 07:17	WG2628157
4-Methyl-2-pentanone (MIBK)	ND	C3	8.23	10	10/27/2025 07:17	WG2628157
Acetone	36.3		25.0	10	10/27/2025 07:17	WG2628157
Acrylonitrile	ND		8.73	10	10/27/2025 07:17	WG2628157
Benzene	ND		1.00	10	10/27/2025 07:17	WG2628157
Bromochloromethane	ND		1.45	10	10/27/2025 07:17	WG2628157
Bromodichloromethane	ND		1.00	10	10/27/2025 07:17	WG2628157
Bromoform	ND		1.86	10	10/27/2025 07:17	WG2628157
Bromomethane	ND		2.50	10	10/27/2025 07:17	WG2628157
Carbon disulfide	ND		1.01	10	10/27/2025 07:17	WG2628157
Carbon tetrachloride	ND		1.59	10	10/27/2025 07:17	WG2628157
Chlorobenzene	ND		1.40	10	10/27/2025 07:17	WG2628157
Chloroethane	ND	C3	2.50	10	10/27/2025 07:17	WG2628157
Chloroform	ND		1.00	10	10/27/2025 07:17	WG2628157
Chloromethane	ND	C3	1.53	10	10/27/2025 07:17	WG2628157
Dibromochloromethane	ND		1.28	10	10/27/2025 07:17	WG2628157
Dibromomethane	ND		1.17	10	10/27/2025 07:17	WG2628157
Ethylbenzene	ND		1.58	10	10/27/2025 07:17	WG2628157
Iodomethane	ND		10.0	10	10/27/2025 07:17	WG2628157
Methylene Chloride	ND		10.7	10	10/27/2025 07:17	WG2628157
Styrene	ND		1.17	10	10/27/2025 07:17	WG2628157
Tetrachloroethene	ND		1.99	10	10/27/2025 07:17	WG2628157
Toluene	ND		4.12	10	10/27/2025 07:17	WG2628157
Trichloroethene	ND		1.53	10	10/27/2025 07:17	WG2628157
Trichlorofluoromethane	ND		2.50	10	10/27/2025 07:17	WG2628157
Vinyl acetate	ND	C3	6.45	10	10/27/2025 07:17	WG2628157
Vinyl chloride	ND	C3	1.18	10	10/27/2025 07:17	WG2628157
Xylenes, Total	ND		3.16	10	10/27/2025 07:17	WG2628157
cis-1,2-Dichloroethene	ND		1.00	10	10/27/2025 07:17	WG2628157
cis-1,3-Dichloropropene	ND		1.00	10	10/27/2025 07:17	WG2628157
trans-1,2-Dichloroethene	ND		1.52	10	10/27/2025 07:17	WG2628157
trans-1,3-Dichloropropene	ND		2.22	10	10/27/2025 07:17	WG2628157

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
trans-1,4-Dichloro-2-butene	ND		5.00	10	10/27/2025 07:17	WG2628157
(S) 4-Bromofluorobenzene	*104*			*77.0-126*	*10/27/2025 07:17*	WG2628157
(S) Toluene-d8	*94.1*			*80.0-120*	*10/27/2025 07:17*	WG2628157
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*	*10/27/2025 07:17*	WG2628157

Sample Narrative:

L1910502-01 WG2628157: Dilution due to foam.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND		0.0257	109	10/29/2025 05:38	WG2627864
2,4,6-Trichlorophenol	ND		0.0109	109	10/29/2025 05:38	WG2627864
2,4-Dichlorophenol	ND		0.0111	109	10/29/2025 05:38	WG2627864
2,4-Dimethylphenol	ND	C3	0.0100	109	10/29/2025 05:38	WG2627864
2,4-Dinitrophenol	ND		0.646	109	10/29/2025 05:38	WG2627864
2-Chlorophenol	ND		0.0145	109	10/29/2025 05:38	WG2627864
2-Nitrophenol	ND		0.0128	109	10/29/2025 05:38	WG2627864
4,6-Dinitro-2-methylphenol	ND		0.122	109	10/29/2025 05:38	WG2627864
4-Chloro-3-methylphenol	ND		0.0143	109	10/29/2025 05:38	WG2627864
4-Nitrophenol	ND		0.0156	109	10/29/2025 05:38	WG2627864
Benzoic acid	ND		0.185	109	10/29/2025 05:38	WG2627864
Pentachlorophenol	ND		0.0341	109	10/29/2025 05:38	WG2627864
(S) Phenol-d5	*17.0*	J7		*10.0-120*	*10/29/2025 05:38*	WG2627864
(S) p-Terphenyl-d14	*56.8*	J7		*10.0-128*	*10/29/2025 05:38*	WG2627864
(S) Nitrobenzene-d5	*44.7*	J7		*10.0-127*	*10/29/2025 05:38*	WG2627864
(S) 2-Fluorophenol	*24.7*	J7		*10.0-120*	*10/29/2025 05:38*	WG2627864
(S) 2-Fluorobiphenyl	*55.9*	J7		*10.0-130*	*10/29/2025 05:38*	WG2627864
(S) 2,4,6-Tribromophenol	*58.7*	J7		*10.0-155*	*10/29/2025 05:38*	WG2627864

Sample Narrative:

L1910502-01 WG2627864: Dilution due to matrix.

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.55	su

Calculated Results

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Total Nitrogen	261		0.100	1	10/28/2025 14:45	WG2628679

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	38.7		4.00	1	10/23/2025 16:57	WG2626468

Wet Chemistry by Method 1664B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5.00	1	10/25/2025 17:14	WG2627083

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	1880		20.0	1	10/24/2025 15:19	WG2626873
Alkalinity,Bicarbonate	1880		20.0	1	10/24/2025 15:19	WG2626873

Sample Narrative:

L1910502-02 WG2626873: Endpoint pH 4.5 HEDASPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	170		3.17	100	10/23/2025 21:31	WG2626538

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	261		0.700	20	10/24/2025 19:14	WG2626801

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	ND		0.100	5	10/28/2025 14:44	WG2628679

Sample Narrative:

L1910502-02 WG2628679: Dilution due to matrix.

Wet Chemistry by Method 365.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Phosphorus,Total	4.58		0.0500	50	11/03/2025 19:48	WG2628880

Wet Chemistry by Method 5210 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	58.4	J-	33.3	10	10/28/2025 11:10	WG2626223

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND		0.0100	1	10/23/2025 10:53	WG2626173

Wet Chemistry by Method 9012B

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.0100	1	10/27/2025 10:56	WG2627888

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.36	T8	1	10/24/2025 01:10	WG2626663

Sample Narrative:

L1910502-02 WG2626663: 8.36 at 18.2C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chloride	1780		2.60	50	10/27/2025 23:19	WG2626060
Sulfate	6.53		5.00	5	10/27/2025 23:09	WG2626060

Sample Narrative:

L1910502-02 WG2626060: Dilution due to matrix impact on instrumentation at lower dilution

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Mercury	0.00103		0.000490	10	10/29/2025 12:17	WG2626235

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.0100	1	10/28/2025 19:15	WG2628231
Arsenic	0.0189		0.0100	1	10/28/2025 19:15	WG2628231
Barium	0.414		0.00500	1	10/28/2025 19:15	WG2628231
Beryllium	ND		0.00200	1	10/28/2025 19:15	WG2628231
Cadmium	ND		0.00200	1	10/28/2025 19:15	WG2628231
Calcium	88.5		1.00	1	10/28/2025 19:15	WG2628231
Chromium	0.0685		0.0100	1	10/28/2025 19:15	WG2628231
Cobalt	0.0217		0.0100	1	10/28/2025 19:15	WG2628231
Copper	ND		0.0100	1	10/28/2025 19:15	WG2628231
Lead	ND		0.00500	1	10/28/2025 19:15	WG2628231
Magnesium	96.7		1.00	1	10/28/2025 19:15	WG2628231
Molybdenum	ND		0.0100	1	10/28/2025 19:15	WG2628231
Nickel	0.163		0.0100	1	10/28/2025 19:15	WG2628231
Potassium	346		1.00	1	10/28/2025 19:15	WG2628231
Selenium	ND		0.0250	1	10/28/2025 19:15	WG2628231
Silver	ND		0.00600	1	10/28/2025 19:15	WG2628231

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Sodium	1380		1.00	5	10/29/2025 00:23	WG2628231
Thallium	ND		0.0200	1	10/28/2025 19:15	WG2628231
Vanadium	0.0227		0.0200	1	10/28/2025 19:15	WG2628231
Zinc	ND		0.0500	1	10/28/2025 19:15	WG2628231

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.20	10	10/27/2025 07:36	WG2628157
1,1,1-Trichloroethane	ND		1.00	10	10/27/2025 07:36	WG2628157
1,1,2,2-Tetrachloroethane	ND	C3	1.30	10	10/27/2025 07:36	WG2628157
1,1,2-Trichloroethane	ND		1.86	10	10/27/2025 07:36	WG2628157
1,1-Dichloroethane	ND		1.14	10	10/27/2025 07:36	WG2628157
1,1-Dichloroethene	ND	C3	1.88	10	10/27/2025 07:36	WG2628157
1,2,3-Trichloropropane	ND		2.50	10	10/27/2025 07:36	WG2628157
1,2-Dibromo-3-Chloropropane	ND		3.25	10	10/27/2025 07:36	WG2628157
1,2-Dibromoethane	ND		1.93	10	10/27/2025 07:36	WG2628157
1,2-Dichloroethane	ND		1.08	10	10/27/2025 07:36	WG2628157
1,2-Dichloropropane	ND		1.90	10	10/27/2025 07:36	WG2628157
2-Butanone (MEK)	25.3		12.8	10	10/27/2025 07:36	WG2628157
2-Chloroethyl vinyl ether	ND		50.0	10	10/27/2025 07:36	WG2628157
2-Hexanone	ND		7.57	10	10/27/2025 07:36	WG2628157
4-Methyl-2-pentanone (MIBK)	ND	C3	8.23	10	10/27/2025 07:36	WG2628157
Acetone	113		25.0	10	10/27/2025 07:36	WG2628157
Acrylonitrile	ND		8.73	10	10/27/2025 07:36	WG2628157
Benzene	ND		1.00	10	10/27/2025 07:36	WG2628157
Bromochloromethane	ND		1.45	10	10/27/2025 07:36	WG2628157
Bromodichloromethane	ND		1.00	10	10/27/2025 07:36	WG2628157
Bromoform	ND		1.86	10	10/27/2025 07:36	WG2628157
Bromomethane	ND		2.50	10	10/27/2025 07:36	WG2628157
Carbon disulfide	ND		1.01	10	10/27/2025 07:36	WG2628157
Carbon tetrachloride	ND		1.59	10	10/27/2025 07:36	WG2628157
Chlorobenzene	ND		1.40	10	10/27/2025 07:36	WG2628157
Chloroethane	ND	C3	2.50	10	10/27/2025 07:36	WG2628157
Chloroform	ND		1.00	10	10/27/2025 07:36	WG2628157
Chloromethane	ND	C3	1.53	10	10/27/2025 07:36	WG2628157
Dibromochloromethane	ND		1.28	10	10/27/2025 07:36	WG2628157
Dibromomethane	ND		1.17	10	10/27/2025 07:36	WG2628157
Ethylbenzene	ND		1.58	10	10/27/2025 07:36	WG2628157
Iodomethane	ND		10.0	10	10/27/2025 07:36	WG2628157
Methylene Chloride	ND		10.7	10	10/27/2025 07:36	WG2628157
Styrene	ND		1.17	10	10/27/2025 07:36	WG2628157
Tetrachloroethene	ND		1.99	10	10/27/2025 07:36	WG2628157
Toluene	ND		4.12	10	10/27/2025 07:36	WG2628157
Trichloroethene	ND		1.53	10	10/27/2025 07:36	WG2628157
Trichlorofluoromethane	ND		2.50	10	10/27/2025 07:36	WG2628157
Vinyl acetate	ND	C3	6.45	10	10/27/2025 07:36	WG2628157
Vinyl chloride	ND	C3	1.18	10	10/27/2025 07:36	WG2628157
Xylenes, Total	ND		3.16	10	10/27/2025 07:36	WG2628157
cis-1,2-Dichloroethene	ND		1.00	10	10/27/2025 07:36	WG2628157
cis-1,3-Dichloropropene	ND		1.00	10	10/27/2025 07:36	WG2628157
trans-1,2-Dichloroethene	ND		1.52	10	10/27/2025 07:36	WG2628157
trans-1,3-Dichloropropene	ND		2.22	10	10/27/2025 07:36	WG2628157
trans-1,4-Dichloro-2-butene	ND		5.00	10	10/27/2025 07:36	WG2628157
(S) 4-Bromofluorobenzene	*104*			*77.0-126*	*10/27/2025 07:36*	WG2628157
(S) Toluene-d8	*94.2*			*80.0-120*	*10/27/2025 07:36*	WG2628157

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*	*10/27/2025 07:36*	WG2628157

Sample Narrative:

L1910502-02 WG2628157: Dilution due to foam.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND		0.0100	20	10/29/2025 05:16	WG2627864
2,4,6-Trichlorophenol	ND		0.0100	20	10/29/2025 05:16	WG2627864
2,4-Dichlorophenol	ND		0.0100	20	10/29/2025 05:16	WG2627864
2,4-Dimethylphenol	ND	C3	0.0100	20	10/29/2025 05:16	WG2627864
2,4-Dinitrophenol	ND		0.119	20	10/29/2025 05:16	WG2627864
2-Chlorophenol	ND		0.0100	20	10/29/2025 05:16	WG2627864
2-Nitrophenol	ND		0.0100	20	10/29/2025 05:16	WG2627864
4,6-Dinitro-2-methylphenol	ND		0.0224	20	10/29/2025 05:16	WG2627864
4-Chloro-3-methylphenol	ND		0.0100	20	10/29/2025 05:16	WG2627864
4-Nitrophenol	ND		0.0100	20	10/29/2025 05:16	WG2627864
Benzoic acid	ND		0.0500	20	10/29/2025 05:16	WG2627864
Pentachlorophenol	ND		0.0100	20	10/29/2025 05:16	WG2627864
(S) Phenol-d5	*14.4*	J7		*10.0-120*	*10/29/2025 05:16*	WG2627864
(S) p-Terphenyl-d14	*38.9*	J7		*10.0-128*	*10/29/2025 05:16*	WG2627864
(S) Nitrobenzene-d5	*32.7*	J7		*10.0-127*	*10/29/2025 05:16*	WG2627864
(S) 2-Fluorophenol	*20.1*	J7		*10.0-120*	*10/29/2025 05:16*	WG2627864
(S) 2-Fluorobiphenyl	*33.3*	J7		*10.0-130*	*10/29/2025 05:16*	WG2627864
(S) 2,4,6-Tribromophenol	*34.8*	J7		*10.0-155*	*10/29/2025 05:16*	WG2627864

Sample Narrative:

L1910502-02 WG2627864: Dilution due to matrix.

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.02	su

Calculated Results

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Total Nitrogen	360		1.97	1	10/28/2025 18:10	WG2628679

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	272		7.00	1	10/23/2025 16:57	WG2626468

Wet Chemistry by Method 1664B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5.00	1	10/25/2025 17:14	WG2627083

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	512		20.0	1	10/24/2025 15:24	WG2626873
Alkalinity,Bicarbonate	512		20.0	1	10/24/2025 15:24	WG2626873

Sample Narrative:

L1910502-03 WG2626873: Endpoint pH 4.5 HEDASPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	23.4		0.317	10	10/23/2025 21:32	WG2626538

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	108		7.00	200	10/24/2025 18:09	WG2626801

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	252		1.97	100	10/28/2025 18:10	WG2628679

Wet Chemistry by Method 365.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Phosphorus,Total	4.64		0.0500	50	11/03/2025 19:50	WG2628880

Wet Chemistry by Method 5210 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
BOD	ND	J-	2.00	1	10/28/2025 11:13	WG2626223

Wet Chemistry by Method 7196A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chromium,Hexavalent	ND	T8	0.0100	1	10/23/2025 10:54	WG2626173

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cyanide	2.20		0.180	100	10/27/2025 10:57	WG2627888

Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	su			date / time	
pH	8.01	T8	1	10/24/2025 01:10	WG2626663

Sample Narrative:

L1910502-03 WG2626663: 8.01 at 18.8C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1690		2.60	50	10/27/2025 23:41	WG2626060
Sulfate	84.0		5.00	5	10/27/2025 23:30	WG2626060

Mercury by Method 7470A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	0.000980		0.000490	10	10/29/2025 12:20	WG2626235

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Antimony	ND		0.0100	1	10/24/2025 19:31	WG2626438
Arsenic	0.0346		0.0100	1	10/24/2025 19:31	WG2626438
Barium	0.462		0.00500	1	10/24/2025 19:31	WG2626438
Beryllium	ND		0.00200	1	10/24/2025 19:31	WG2626438
Cadmium	ND		0.00200	1	10/24/2025 19:31	WG2626438
Calcium	142		1.00	1	10/24/2025 19:31	WG2626438
Chromium	0.0691		0.0100	1	10/24/2025 19:31	WG2626438
Cobalt	0.0274		0.0100	1	10/24/2025 19:31	WG2626438
Copper	ND		0.0100	1	10/24/2025 19:31	WG2626438
Lead	ND		0.00500	1	10/24/2025 19:31	WG2626438
Magnesium	114		1.00	1	10/24/2025 19:31	WG2626438
Molybdenum	ND		0.0100	1	10/24/2025 19:31	WG2626438
Nickel	0.190		0.0100	1	10/24/2025 19:31	WG2626438
Potassium	368		1.00	1	10/24/2025 19:31	WG2626438
Selenium	ND		0.0250	1	10/24/2025 19:31	WG2626438
Silver	ND		0.00600	1	10/24/2025 19:31	WG2626438
Sodium	1350		1.00	5	10/25/2025 12:48	WG2626438
Thallium	ND		0.0200	1	10/24/2025 19:31	WG2626438
Vanadium	0.0271		0.0200	1	10/24/2025 19:31	WG2626438
Zinc	0.220		0.0500	1	10/24/2025 19:31	WG2626438

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	10/26/2025 14:56	WG2628000
1,1,1-Trichloroethane	ND		1.00	1	10/26/2025 14:56	WG2628000
1,1,2,2-Tetrachloroethane	ND	C3	1.00	1	10/26/2025 14:56	WG2628000
1,1,2-Trichloroethane	ND		1.00	1	10/26/2025 14:56	WG2628000
1,1-Dichloroethane	ND		1.00	1	10/26/2025 14:56	WG2628000
1,1-Dichloroethene	ND		1.00	1	10/26/2025 14:56	WG2628000
1,2,3-Trichloropropane	ND		2.50	1	10/26/2025 14:56	WG2628000
1,2-Dibromo-3-Chloropropane	ND		2.50	1	10/26/2025 14:56	WG2628000
1,2-Dibromoethane	ND		1.00	1	10/26/2025 14:56	WG2628000
1,2-Dichloroethane	ND		1.00	1	10/26/2025 14:56	WG2628000
1,2-Dichloropropane	ND		1.00	1	10/26/2025 14:56	WG2628000
2-Butanone (MEK)	ND		10.0	1	10/26/2025 14:56	WG2628000
2-Chloroethyl vinyl ether	ND		50.0	1	10/26/2025 14:56	WG2628000
2-Hexanone	ND		5.00	1	10/26/2025 14:56	WG2628000
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	10/26/2025 14:56	WG2628000
Acetone	ND		25.0	1	10/26/2025 14:56	WG2628000
Acrylonitrile	ND		5.00	1	10/26/2025 14:56	WG2628000
Benzene	ND		1.00	1	10/26/2025 14:56	WG2628000
Bromochloromethane	ND		1.00	1	10/26/2025 14:56	WG2628000
Bromodichloromethane	ND		1.00	1	10/26/2025 14:56	WG2628000
Bromoform	ND		1.00	1	10/26/2025 14:56	WG2628000
Bromomethane	ND		2.50	1	10/26/2025 14:56	WG2628000
Carbon disulfide	ND		1.00	1	10/26/2025 14:56	WG2628000
Carbon tetrachloride	ND		1.00	1	10/26/2025 14:56	WG2628000
Chlorobenzene	ND		1.00	1	10/26/2025 14:56	WG2628000
Chloroethane	ND	C3	2.50	1	10/26/2025 14:56	WG2628000
Chloroform	ND		1.00	1	10/26/2025 14:56	WG2628000
Chloromethane	ND	C3	1.25	1	10/26/2025 14:56	WG2628000
Dibromochloromethane	ND		1.00	1	10/26/2025 14:56	WG2628000
Dibromomethane	ND		1.00	1	10/26/2025 14:56	WG2628000
Ethylbenzene	ND		1.00	1	10/26/2025 14:56	WG2628000
Iodomethane	ND		10.0	1	10/26/2025 14:56	WG2628000
Methylene Chloride	ND		2.50	1	10/26/2025 14:56	WG2628000
Styrene	ND		1.00	1	10/26/2025 14:56	WG2628000
Tetrachloroethene	ND		1.00	1	10/26/2025 14:56	WG2628000
Toluene	ND		1.00	1	10/26/2025 14:56	WG2628000
Trichloroethene	ND		1.00	1	10/26/2025 14:56	WG2628000
Trichlorofluoromethane	ND		2.50	1	10/26/2025 14:56	WG2628000
Vinyl acetate	ND		5.00	1	10/26/2025 14:56	WG2628000
Vinyl chloride	ND	C3	1.00	1	10/26/2025 14:56	WG2628000
Xylenes, Total	ND		2.00	1	10/26/2025 14:56	WG2628000
cis-1,2-Dichloroethene	ND		1.00	1	10/26/2025 14:56	WG2628000
cis-1,3-Dichloropropene	ND		1.00	1	10/26/2025 14:56	WG2628000
trans-1,2-Dichloroethene	ND		1.00	1	10/26/2025 14:56	WG2628000
trans-1,3-Dichloropropene	ND		1.00	1	10/26/2025 14:56	WG2628000
trans-1,4-Dichloro-2-butene	ND		5.00	1	10/26/2025 14:56	WG2628000
(S) 4-Bromofluorobenzene	*102*			*77.0-126*	*10/26/2025 14:56*	WG2628000
(S) Toluene-d8	*96.9*			*80.0-120*	*10/26/2025 14:56*	WG2628000
(S) 1,2-Dichloroethane-d4	*87.4*			*70.0-130*	*10/26/2025 14:56*	WG2628000

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND		0.0100	10	10/29/2025 03:49	WG2627864
2,4,6-Trichlorophenol	ND		0.0100	10	10/29/2025 03:49	WG2627864
2,4-Dichlorophenol	ND		0.0100	10	10/29/2025 03:49	WG2627864
2,4-Dimethylphenol	ND	C3	0.0100	10	10/29/2025 03:49	WG2627864
2,4-Dinitrophenol	ND		0.0593	10	10/29/2025 03:49	WG2627864
2-Chlorophenol	ND		0.0100	10	10/29/2025 03:49	WG2627864
2-Nitrophenol	ND		0.0100	10	10/29/2025 03:49	WG2627864
4,6-Dinitro-2-methylphenol	ND		0.0112	10	10/29/2025 03:49	WG2627864
4-Chloro-3-methylphenol	ND		0.0100	10	10/29/2025 03:49	WG2627864
4-Nitrophenol	ND		0.0100	10	10/29/2025 03:49	WG2627864
Benzoic acid	ND		0.0500	10	10/29/2025 03:49	WG2627864
Pentachlorophenol	ND		0.0100	10	10/29/2025 03:49	WG2627864
(S) Phenol-d5	*0.000*	J2		*10.0-120*	*10/29/2025 03:49*	WG2627864
(S) p-Terphenyl-d14	*61.4*			*10.0-128*	*10/29/2025 03:49*	WG2627864
(S) Nitrobenzene-d5	*47.9*			*10.0-127*	*10/29/2025 03:49*	WG2627864
(S) 2-Fluorophenol	*0.000*	J2		*10.0-120*	*10/29/2025 03:49*	WG2627864
(S) 2-Fluorobiphenyl	*50.4*			*10.0-130*	*10/29/2025 03:49*	WG2627864
(S) 2,4,6-Tribromophenol	*7.32*	J2		*10.0-155*	*10/29/2025 03:49*	WG2627864

Sample Narrative:

L1910502-03 WG2627864: Dilution and surrogate failure due to matrix interference.

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.96	su

Calculated Results

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Total Nitrogen	1080		0.197	1	11/19/2025 19:03	WG2628679

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	182		7.00	1	10/23/2025 16:57	WG2626468

Wet Chemistry by Method 1664B

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Oil & Grease (Hexane Extr)	ND		5.00	1	10/25/2025 17:14	WG2627083

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	5890		20.0	1	10/24/2025 15:30	WG2626873
Alkalinity,Bicarbonate	5800		20.0	1	10/24/2025 15:30	WG2626873

Sample Narrative:

L1910502-04 WG2626873: Endpoint pH 4.5 HEDASPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	1630		12.7	400	10/23/2025 23:16	WG2626541

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	1080		3.50	100	11/19/2025 19:03	WG2643209

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	0.271		0.197	10	10/28/2025 14:48	WG2628679

Sample Narrative:

L1910502-04 WG2628679: Dilution due to matrix.

Wet Chemistry by Method 365.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Phosphorus,Total	13.9		0.100	100	11/03/2025 19:54	WG2628880

Wet Chemistry by Method 5210 B-2011

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
BOD	62.4	J-	33.3	10	10/28/2025 11:19	WG2626223

Wet Chemistry by Method 7196A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND	T8	0.0100	2	10/23/2025 10:55	WG2626173

Sample Narrative:
L1910502-04 WG2626173: Dilution due to matrix.

Wet Chemistry by Method 9012B

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Cyanide	0.0268		0.0180	10	10/27/2025 11:02	WG2627888

Sample Narrative:
L1910502-04 WG2627888: Dilution due to matrix.

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.34	T8	1	10/24/2025 01:10	WG2626663

Sample Narrative:
L1910502-04 WG2626663: 8.34 at 18.4C

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Chloride	3120		2.60	50	10/28/2025 00:24	WG2626060
Sulfate	87.4		5.00	5	10/28/2025 00:13	WG2626060

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.000490	10	10/29/2025 12:23	WG2626235

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.0675	9	10/28/2025 19:16	WG2628231
Arsenic	0.0771		0.0585	9	10/28/2025 19:16	WG2628231
Barium	1.12		0.0153	9	10/28/2025 19:16	WG2628231
Beryllium	ND		0.00630	9	10/28/2025 19:16	WG2628231
Cadmium	ND		0.00630	9	10/28/2025 19:16	WG2628231
Calcium	144		1.00	9	10/28/2025 19:16	WG2628231
Chromium	0.281		0.0126	9	10/28/2025 19:16	WG2628231
Cobalt	0.0735		0.0207	9	10/28/2025 19:16	WG2628231
Copper	ND		0.0477	9	10/28/2025 19:16	WG2628231
Lead	0.0253		0.0171	9	10/28/2025 19:16	WG2628231
Magnesium	155		1.00	9	10/28/2025 19:16	WG2628231
Molybdenum	0.0179		0.0144	9	10/28/2025 19:16	WG2628231
Nickel	0.413		0.0441	9	10/28/2025 19:16	WG2628231

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Potassium	682		1.00	9	10/28/2025 19:16	WG2628231
Selenium	ND		0.0666	9	10/28/2025 19:16	WG2628231
Silver	ND		0.0252	9	10/28/2025 19:16	WG2628231
Sodium	2730		1.00	9	10/28/2025 19:16	WG2628231
Thallium	ND		0.0585	9	10/28/2025 19:16	WG2628231
Vanadium	0.0515		0.0216	9	10/28/2025 19:16	WG2628231
Zinc	0.322		0.0531	9	10/28/2025 19:16	WG2628231

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.20	10	10/27/2025 06:58	WG2628157
1,1,1-Trichloroethane	ND		1.00	10	10/27/2025 06:58	WG2628157
1,1,2,2-Tetrachloroethane	ND	C3	1.30	10	10/27/2025 06:58	WG2628157
1,1,2-Trichloroethane	ND		1.86	10	10/27/2025 06:58	WG2628157
1,1-Dichloroethane	ND		1.14	10	10/27/2025 06:58	WG2628157
1,1-Dichloroethene	ND	C3	1.88	10	10/27/2025 06:58	WG2628157
1,2,3-Trichloropropane	ND		2.50	10	10/27/2025 06:58	WG2628157
1,2-Dibromo-3-Chloropropane	ND		3.25	10	10/27/2025 06:58	WG2628157
1,2-Dibromoethane	ND		1.93	10	10/27/2025 06:58	WG2628157
1,2-Dichloroethane	ND		1.08	10	10/27/2025 06:58	WG2628157
1,2-Dichloropropane	ND		1.90	10	10/27/2025 06:58	WG2628157
2-Butanone (MEK)	ND		12.8	10	10/27/2025 06:58	WG2628157
2-Chloroethyl vinyl ether	ND		50.0	10	10/27/2025 06:58	WG2628157
2-Hexanone	ND		7.57	10	10/27/2025 06:58	WG2628157
4-Methyl-2-pentanone (MIBK)	ND	C3	8.23	10	10/27/2025 06:58	WG2628157
Acetone	ND		25.0	10	10/27/2025 06:58	WG2628157
Acrylonitrile	ND		8.73	10	10/27/2025 06:58	WG2628157
Benzene	ND		1.00	10	10/27/2025 06:58	WG2628157
Bromochloromethane	ND		1.45	10	10/27/2025 06:58	WG2628157
Bromodichloromethane	ND		1.00	10	10/27/2025 06:58	WG2628157
Bromoform	ND		1.86	10	10/27/2025 06:58	WG2628157
Bromomethane	ND		2.50	10	10/27/2025 06:58	WG2628157
Carbon disulfide	ND		1.01	10	10/27/2025 06:58	WG2628157
Carbon tetrachloride	ND		1.59	10	10/27/2025 06:58	WG2628157
Chlorobenzene	ND		1.40	10	10/27/2025 06:58	WG2628157
Chloroethane	ND	C3	2.50	10	10/27/2025 06:58	WG2628157
Chloroform	ND		1.00	10	10/27/2025 06:58	WG2628157
Chloromethane	ND	C3	1.53	10	10/27/2025 06:58	WG2628157
Dibromochloromethane	ND		1.28	10	10/27/2025 06:58	WG2628157
Dibromomethane	ND		1.17	10	10/27/2025 06:58	WG2628157
Ethylbenzene	ND		1.58	10	10/27/2025 06:58	WG2628157
Iodomethane	ND		10.0	10	10/27/2025 06:58	WG2628157
Methylene Chloride	ND		10.7	10	10/27/2025 06:58	WG2628157
Styrene	ND		1.17	10	10/27/2025 06:58	WG2628157
Tetrachloroethene	ND		1.99	10	10/27/2025 06:58	WG2628157
Toluene	ND		4.12	10	10/27/2025 06:58	WG2628157
Trichloroethene	ND		1.53	10	10/27/2025 06:58	WG2628157
Trichlorofluoromethane	ND		2.50	10	10/27/2025 06:58	WG2628157
Vinyl acetate	ND	C3	6.45	10	10/27/2025 06:58	WG2628157
Vinyl chloride	ND	C3	1.18	10	10/27/2025 06:58	WG2628157
Xylenes, Total	ND		3.16	10	10/27/2025 06:58	WG2628157
cis-1,2-Dichloroethene	ND		1.00	10	10/27/2025 06:58	WG2628157
cis-1,3-Dichloropropene	ND		1.00	10	10/27/2025 06:58	WG2628157
trans-1,2-Dichloroethene	ND		1.52	10	10/27/2025 06:58	WG2628157
trans-1,3-Dichloropropene	ND		2.22	10	10/27/2025 06:58	WG2628157

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
trans-1,4-Dichloro-2-butene	ND		5.00	10	10/27/2025 06:58	WG2628157
(S) 4-Bromofluorobenzene	*103*			*77.0-126*	*10/27/2025 06:58*	WG2628157
(S) Toluene-d8	*92.6*			*80.0-120*	*10/27/2025 06:58*	WG2628157
(S) 1,2-Dichloroethane-d4	*88.4*			*70.0-130*	*10/27/2025 06:58*	WG2628157

Sample Narrative:

L1910502-04 WG2628157: Dilution due to foam.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
2,4,5-Trichlorophenol	ND		0.0100	10.5	10/29/2025 04:11	WG2627864
2,4,6-Trichlorophenol	ND		0.0100	10.5	10/29/2025 04:11	WG2627864
2,4-Dichlorophenol	ND		0.0100	10.5	10/29/2025 04:11	WG2627864
2,4-Dimethylphenol	ND	C3	0.0100	10.5	10/29/2025 04:11	WG2627864
2,4-Dinitrophenol	ND		0.0623	10.5	10/29/2025 04:11	WG2627864
2-Chlorophenol	ND		0.0100	10.5	10/29/2025 04:11	WG2627864
2-Nitrophenol	ND		0.0100	10.5	10/29/2025 04:11	WG2627864
4,6-Dinitro-2-methylphenol	ND		0.0118	10.5	10/29/2025 04:11	WG2627864
4-Chloro-3-methylphenol	ND		0.0100	10.5	10/29/2025 04:11	WG2627864
4-Nitrophenol	ND		0.0100	10.5	10/29/2025 04:11	WG2627864
Benzoic acid	ND		0.0500	10.5	10/29/2025 04:11	WG2627864
Pentachlorophenol	ND		0.0100	10.5	10/29/2025 04:11	WG2627864
(S) Phenol-d5	*15.2*			*10.0-120*	*10/29/2025 04:11*	WG2627864
(S) p-Terphenyl-d14	*24.1*			*10.0-128*	*10/29/2025 04:11*	WG2627864
(S) Nitrobenzene-d5	*25.5*			*10.0-127*	*10/29/2025 04:11*	WG2627864
(S) 2-Fluorophenol	*18.6*			*10.0-120*	*10/29/2025 04:11*	WG2627864
(S) 2-Fluorobiphenyl	*20.6*			*10.0-130*	*10/29/2025 04:11*	WG2627864
(S) 2,4,6-Tribromophenol	*30.7*			*10.0-155*	*10/29/2025 04:11*	WG2627864

Sample Narrative:

L1910502-04 WG2627864: Dilution due to matrix.

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		10/23/2025 4:45:31 PM	WG2626424
Initial pH	N/A		10/23/2025 4:45:31 PM	WG2626424
Final pH	N/A		10/23/2025 4:45:31 PM	WG2626424

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	10/28/2025 13:13	WG2628117

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	10/28/2025 13:06	WG2627999
Barium, TCLP	0.574		0.100	100	1	10/28/2025 13:06	WG2627999
Cadmium, TCLP	ND		0.100	1	1	10/28/2025 13:06	WG2627999
Chromium, TCLP	0.103		0.100	5	1	10/28/2025 13:06	WG2627999
Lead, TCLP	ND		0.100	5	1	10/28/2025 13:06	WG2627999
Selenium, TCLP	ND		0.100	1	1	10/28/2025 13:06	WG2627999
Silver, TCLP	ND		0.100	5	1	10/28/2025 13:06	WG2627999

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		10/23/2025 4:45:31 PM	WG2626424
Initial pH	N/A		10/23/2025 4:45:31 PM	WG2626424
Final pH	N/A		10/23/2025 4:45:31 PM	WG2626424

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	10/28/2025 13:16	WG2628117

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	10/28/2025 13:09	WG2627999
Barium, TCLP	0.413		0.100	100	1	10/28/2025 13:09	WG2627999
Cadmium, TCLP	ND		0.100	1	1	10/28/2025 13:09	WG2627999
Chromium, TCLP	ND		0.100	5	1	10/28/2025 13:09	WG2627999
Lead, TCLP	ND		0.100	5	1	10/28/2025 13:09	WG2627999
Selenium, TCLP	ND		0.100	1	1	10/28/2025 13:09	WG2627999
Silver, TCLP	ND		0.100	5	1	10/28/2025 13:09	WG2627999

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		10/23/2025 4:45:31 PM	WG2626424
Initial pH	N/A		10/23/2025 4:45:31 PM	WG2626424
Final pH	N/A		10/23/2025 4:45:31 PM	WG2626424

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	10/28/2025 13:19	WG2628117

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	10/28/2025 13:11	WG2627999
Barium, TCLP	0.228		0.100	100	1	10/28/2025 13:11	WG2627999
Cadmium, TCLP	ND		0.100	1	1	10/28/2025 13:11	WG2627999
Chromium, TCLP	ND		0.100	5	1	10/28/2025 13:11	WG2627999
Lead, TCLP	ND		0.100	5	1	10/28/2025 13:11	WG2627999
Selenium, TCLP	ND		0.100	1	1	10/28/2025 13:11	WG2627999
Silver, TCLP	ND		0.100	5	1	10/28/2025 13:11	WG2627999

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		10/23/2025 4:45:31 PM	WG2626424
Initial pH	8.49		10/23/2025 4:45:31 PM	WG2626424
Final pH	5.04		10/23/2025 4:45:31 PM	WG2626424

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Mercury, TCLP	ND		0.0100	0.20	1	10/26/2025 19:46	WG2627337

Metals (ICP) by Method 6010C

Analyte	Result mg/l	Qualifier	RL mg/l	TCLP Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic, TCLP	ND		0.100	5	1	10/28/2025 13:13	WG2627999
Barium, TCLP	ND		0.100	100	1	10/28/2025 13:13	WG2627999
Cadmium, TCLP	ND		0.100	1	1	10/28/2025 13:13	WG2627999
Chromium, TCLP	ND		0.100	5	1	10/28/2025 13:13	WG2627999
Lead, TCLP	ND		0.100	5	1	10/28/2025 13:13	WG2627999
Selenium, TCLP	ND		0.100	1	1	10/28/2025 13:13	WG2627999
Silver, TCLP	ND		0.100	5	1	10/28/2025 13:13	WG2627999

Method Blank (MB)

(MB) R4291578-1 10/23/25 16:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1910152-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1910152-10 10/23/25 16:57 • (DUP) R4291578-3 10/23/25 16:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	17.5	17.0	1	2.90		10

L1910502-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910502-01 10/23/25 16:57 • (DUP) R4291578-4 10/23/25 16:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	65.0	68.0	1	4.51		10

Laboratory Control Sample (LCS)

(LCS) R4291578-2 10/23/25 16:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	760	98.3	85.0-115	

Method Blank (MB)

(MB) R4291958-1 10/25/25 17:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Oil & Grease (Hexane Extr)	ND		1.16	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4291958-2 10/25/25 17:14 • (LCSD) R4291958-3 10/25/25 17:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oil & Grease (Hexane Extr)	40.0	32.4	32.6	81.0	81.5	78.0-114			0.615	20

L1910433-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1910433-01 10/25/25 17:14 • (MS) R4291958-4 10/25/25 17:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Oil & Grease (Hexane Extr)	40.0	ND	42.3	101	1	78.0-114	

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4291836-2 10/24/25 13:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0
Alkalinity,Bicarbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1910525-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910525-01 10/24/25 13:45 • (DUP) R4291836-4 10/24/25 13:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	159	161	1	1.48		20
Alkalinity,Bicarbonate	139	141	1	1.79		20

Sample Narrative:

OS: Endpoint pH 4.5 HEDASPACE

DUP: Endpoint pH 4.5

L1910837-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1910837-03 10/24/25 16:18 • (DUP) R4291836-6 10/24/25 16:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	275	278	1	1.26		20
Alkalinity,Bicarbonate	275	278	1	1.26		20

Sample Narrative:

OS: Endpoint pH 4.5 HEDASPACE

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4291836-1 10/24/25 13:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	105	105	90.0-110	

Laboratory Control Sample (LCS)

(LCS) R4291836-1 10/24/25 13:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4291375-1 10/23/25 21:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1910461-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910461-01 10/23/25 21:11 • (DUP) R4291375-3 10/23/25 21:13

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1910519-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910519-01 10/23/25 21:34 • (DUP) R4291375-5 10/23/25 21:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4291375-2 10/23/25 21:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.61	101	90.0-110	

L1910461-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1910461-01 10/23/25 21:11 • (MS) R4291375-4 10/23/25 21:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.01	100	1	90.0-110	

L1910519-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910519-01 10/23/25 21:34 • (MS) R4291375-6 10/23/25 21:37 • (MSD) R4291375-7 10/23/25 21:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	ND	5.06	5.18	101	104	1	90.0-110			2.42	10

Method Blank (MB)

(MB) R4291376-1 10/23/25 22:17

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1910573-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910573-01 10/23/25 22:24 • (DUP) R4291376-3 10/23/25 22:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1910573-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1910573-03 10/23/25 22:30 • (DUP) R4291376-6 10/23/25 22:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4291376-2 10/23/25 22:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.65	102	90.0-110	

L1910573-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910573-01 10/23/25 22:24 • (MS) R4291376-4 10/23/25 22:27 • (MSD) R4291376-5 10/23/25 22:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	ND	5.22	5.33	104	107	1	90.0-110			2.26	10

L1910573-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1910573-03 10/23/25 22:30 • (MS) R4291376-7 10/23/25 22:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.08	102	1	90.0-110	

Method Blank (MB)

(MB) R4291788-1 10/24/25 17:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	0.0634	J	0.0350	0.250

Laboratory Control Sample (LCS)

(LCS) R4291788-2 10/24/25 17:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	3.28	3.12	95.0	90.0-110	

L1910454-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910454-01 10/24/25 17:54 • (MS) R4291788-3 10/24/25 17:56 • (MSD) R4291788-4 10/24/25 17:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	5.00	35.7	41.2	39.4	110	73.9	1	90.0-110	E	E V	4.49	20

Method Blank (MB)

(MB) R4303428-1 11/19/25 18:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	ND		0.0350	0.250

Laboratory Control Sample (LCS)

(LCS) R4303428-2 11/19/25 18:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	3.28	3.36	103	90.0-110	

L1915938-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1915938-01 11/19/25 18:34 • (MS) R4303428-3 11/19/25 18:36 • (MSD) R4303428-4 11/19/25 18:38

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	5.00	21.7	23.0	22.7	24.3	20.1	1	90.0-110	E V	E V	0.930	20

L1916243-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1916243-02 11/19/25 18:51 • (MS) R4303428-5 11/19/25 18:53 • (MSD) R4303428-6 11/19/25 18:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	5.00	1.26	5.94	5.54	93.7	85.6	1	90.0-110		J6	7.00	20

Method Blank (MB)

(MB) R4293099-7 10/28/25 14:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	ND		0.0197	0.100

Laboratory Control Sample (LCS)

(LCS) R4293099-8 10/28/25 14:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.56	102	90.0-110	

L1910432-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910432-01 10/28/25 14:30 • (MS) R4293099-9 10/28/25 14:32 • (MSD) R4293099-10 10/28/25 14:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	ND	2.54	2.51	101	100	1	90.0-110			1.27	20

L1910581-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910581-01 10/28/25 15:14 • (MS) R4293099-11 10/28/25 15:16 • (MSD) R4293099-12 10/28/25 15:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	ND	2.51	2.44	100	97.6	1	90.0-110			2.71	20

Method Blank (MB)

(MB) R4295768-1 11/03/25 19:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phosphorus,Total	ND		0.00100	0.00300

Laboratory Control Sample (LCS)

(LCS) R4295768-2 11/03/25 19:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Phosphorus,Total	0.160	0.159	99.1	90.0-110	

L1910152-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910152-10 11/03/25 19:42 • (MS) R4295768-3 11/03/25 19:44 • (MSD) R4295768-4 11/03/25 19:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Phosphorus,Total	0.0500	0.0370	0.0873	0.0859	101	97.8	1	90.0-110			1.62	20

Method Blank (MB)

(MB) R4292877-2 10/28/25 10:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
BOD	ND		0.200	0.200

L1910522-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910522-01 10/28/25 11:24 • (DUP) R4292877-3 10/28/25 11:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
BOD	14.4	15.9	1	9.99		30

Laboratory Control Sample (LCS)

(LCS) R4292877-1 10/28/25 10:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	160	81	84.6-115	J-

Laboratory Control Sample (LCS)

(LCS) R4292877-4 10/28/25 11:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
BOD	198	170	85.6	84.6-115	

Method Blank (MB)

(MB) R4290926-1 10/23/25 10:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Hexavalent	ND		0.00300	0.0100

Laboratory Control Sample (LCS)

(LCS) R4290926-2 10/23/25 10:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Hexavalent	0.500	0.457	91.4	88.0-118	

L1910133-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910133-02 10/23/25 10:46 • (MS) R4290926-3 10/23/25 10:47 • (MSD) R4290926-4 10/23/25 10:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	0.500	ND	0.465	0.460	93.0	92.0	1	85.0-115			1.08	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4292346-1 10/27/25 10:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	0.00193	J	0.00180	0.00500

L1910357-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910357-01 10/27/25 10:33 • (DUP) R4292346-3 10/27/25 10:34

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4292346-2 10/27/25 10:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.107	107	87.1-120	

L1910357-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1910357-04 10/27/25 10:39 • (MS) R4292346-4 10/27/25 10:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Cyanide	0.100	ND	0.102	102	1	90.0-110	

L1910614-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910614-04 10/27/25 11:09 • (MS) R4292346-5 10/27/25 11:10 • (MSD) R4292346-6 10/27/25 11:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.115	0.0899	115	89.9	1	90.0-110	J5	J3 J6	24.5	20

L1910401-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910401-01 10/24/25 01:10 • (DUP) R4291388-2 10/24/25 01:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.42	7.44	1	0.269		1

Sample Narrative:

OS: 7.42 at 18.1C

DUP: 7.44 at 18.3C

L1910581-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1910581-04 10/24/25 01:10 • (DUP) R4291388-3 10/24/25 01:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.93	7.95	1	0.252		1

Sample Narrative:

OS: 7.93 at 19C

DUP: 7.95 at 19.3C

Laboratory Control Sample (LCS)

(LCS) R4291388-1 10/24/25 01:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10 at 18.4C

Method Blank (MB)

(MB) R4292696-1 10/27/25 18:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.221	J	0.0519	1.00
Sulfate	0.242	J	0.0774	5.00

L1910351-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1910351-02 10/27/25 19:38 • (DUP) R4292696-6 10/27/25 19:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4.91	4.90	1	0.118		15

L1910351-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910351-01 10/30/25 06:38 • (DUP) R4293971-1 10/30/25 06:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	8.81	8.74	5	0.732		15
Sulfate	26.4	26.9	5	1.70		15

Laboratory Control Sample (LCS)

(LCS) R4292696-2 10/27/25 18:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.1	97.7	80.0-120	
Sulfate	40.0	39.3	98.3	80.0-120	

L1910351-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1910351-02 10/27/25 19:38 • (MS) R4292696-7 10/27/25 20:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	4.91	44.6	99.3	1	80.0-120	
Sulfate	40.0	144	158	33.6	1	80.0-120	E J6

Method Blank (MB)

(MB) R4293486-1 10/29/25 11:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	ND		0.0000490	0.000200

Laboratory Control Sample (LCS)

(LCS) R4293486-2 10/29/25 11:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00327	109	80.0-120	

L1910428-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910428-03 10/29/25 11:43 • (MS) R4293486-4 10/29/25 11:48 • (MSD) R4293486-5 10/29/25 11:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00314	0.00315	100	101	1	75.0-125			0.329	20

Method Blank (MB)

(MB) R4292160-1 10/26/25 19:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury, TCLP	ND		0.0000490	0.0100

Laboratory Control Sample (LCS)

(LCS) R4292160-2 10/26/25 19:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury, TCLP	0.0300	0.0332	111	80.0-120	

L1910507-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910507-01 10/26/25 19:29 • (MS) R4292160-3 10/26/25 19:32 • (MSD) R4292160-4 10/26/25 19:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury, TCLP	0.0300	ND	0.0317	0.0319	106	106	1	75.0-125			0.434	20

Method Blank (MB)

(MB) R4293046-1 10/28/25 12:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury, TCLP	0.000415		0.0000490	0.0100

Laboratory Control Sample (LCS)

(LCS) R4293046-2 10/28/25 12:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury, TCLP	0.0300	0.0310	103	80.0-120	

L1910722-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910722-08 10/28/25 12:45 • (MS) R4293046-4 10/28/25 12:50 • (MSD) R4293046-5 10/28/25 12:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury, TCLP	0.0300	ND	0.0301	0.0290	100	96.8	1	75.0-125			3.52	20

Method Blank (MB)

(MB) R4291875-1 10/24/25 18:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	ND		0.00750	0.0100
Arsenic	ND		0.00650	0.0100
Barium	ND		0.00170	0.00500
Beryllium	ND		0.000700	0.00200
Cadmium	ND		0.000700	0.00200
Calcium	0.125	J	0.0463	1.00
Chromium	ND		0.00140	0.0100
Cobalt	ND		0.00230	0.0100
Copper	ND		0.00530	0.0100
Lead	ND		0.00190	0.00500
Magnesium	ND		0.0111	1.00
Molybdenum	ND		0.00160	0.00500
Nickel	ND		0.00490	0.0100
Potassium	ND		0.102	1.00
Selenium	ND		0.00740	0.0100
Silver	ND		0.00280	0.00500
Sodium	ND		0.0985	1.00
Thallium	ND		0.00650	0.0100
Vanadium	ND		0.00240	0.0200
Zinc	ND		0.00590	0.0500

Laboratory Control Sample (LCS)

(LCS) R4291875-2 10/24/25 18:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	1.00	0.994	99.4	80.0-120	
Arsenic	1.00	1.01	101	80.0-120	
Barium	1.00	1.04	104	80.0-120	
Beryllium	1.00	1.04	104	80.0-120	
Cadmium	1.00	0.942	94.2	80.0-120	
Calcium	10.0	10.3	103	80.0-120	
Chromium	1.00	1.00	100	80.0-120	
Cobalt	1.00	0.969	96.9	80.0-120	
Copper	1.00	0.957	95.7	80.0-120	
Lead	1.00	0.977	97.7	80.0-120	
Magnesium	10.0	10.4	104	80.0-120	
Molybdenum	1.00	1.01	101	80.0-120	
Nickel	1.00	0.938	93.8	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4291875-2 10/24/25 18:57

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Potassium	10.0	9.24	92.4	80.0-120	
Selenium	1.00	0.938	93.8	80.0-120	
Silver	0.200	0.193	96.6	80.0-120	
Sodium	10.0	9.71	97.1	80.0-120	
Thallium	1.00	1.01	101	80.0-120	
Vanadium	1.00	1.02	102	80.0-120	
Zinc	1.00	1.03	103	80.0-120	

L1910479-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910479-01 10/24/25 19:00 • (MS) R4291875-4 10/24/25 19:05 • (MSD) R4291875-5 10/24/25 19:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	1.00	ND	1.03	1.01	103	101	1	75.0-125			2.24	20
Arsenic	1.00	ND	1.09	1.06	109	106	1	75.0-125			2.76	20
Barium	1.00	0.0397	1.07	1.04	103	100	1	75.0-125			2.93	20
Beryllium	1.00	ND	1.01	0.997	101	99.7	1	75.0-125			0.953	20
Cadmium	1.00	ND	0.971	0.940	97.1	94.0	1	75.0-125			3.21	20
Calcium	10.0	163	163	161	0.000	0.000	1	75.0-125	V	V	0.813	20
Chromium	1.00	ND	0.990	0.960	99.0	96.0	1	75.0-125			3.12	20
Cobalt	1.00	ND	1.01	0.982	101	98.2	1	75.0-125			2.67	20
Copper	1.00	ND	0.980	0.960	97.7	95.7	1	75.0-125			2.02	20
Lead	1.00	ND	0.992	0.962	99.2	96.2	1	75.0-125			3.14	20
Magnesium	10.0	28.2	36.5	36.5	82.8	82.6	1	75.0-125			0.0664	20
Molybdenum	1.00	ND	1.01	0.977	101	97.5	1	75.0-125			3.09	20
Nickel	1.00	ND	0.959	0.930	95.9	93.0	1	75.0-125			3.13	20
Potassium	10.0	4.70	14.3	14.2	96.2	94.6	1	75.0-125			1.11	20
Selenium	1.00	ND	1.00	0.975	100	97.5	1	75.0-125			2.73	20
Silver	0.200	ND	0.198	0.198	98.8	99.2	1	75.0-125			0.343	20
Sodium	10.0	159	161	160	20.4	5.14	1	75.0-125	V	V	0.952	20
Thallium	1.00	ND	0.995	0.971	99.5	97.1	1	75.0-125			2.40	20
Vanadium	1.00	ND	0.952	0.940	94.5	93.2	1	75.0-125			1.33	20
Zinc	1.00	ND	1.06	1.03	106	103	1	75.0-125			2.53	20

Method Blank (MB)

(MB) R4293212-1 10/28/25 19:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	ND		0.00750	0.0100
Arsenic	ND		0.00650	0.0100
Barium	ND		0.00170	0.00500
Beryllium	ND		0.000700	0.00200
Cadmium	ND		0.000700	0.00200
Calcium	ND		0.0463	1.00
Chromium	ND		0.00140	0.0100
Cobalt	ND		0.00230	0.0100
Copper	ND		0.00530	0.0100
Lead	0.00249	J	0.00190	0.00500
Magnesium	ND		0.0111	1.00
Molybdenum	ND		0.00160	0.00500
Nickel	ND		0.00490	0.0100
Potassium	0.160	J	0.102	1.00
Selenium	ND		0.00740	0.0100
Silver	ND		0.00280	0.00500
Sodium	ND		0.0985	1.00
Thallium	ND		0.00650	0.0100
Vanadium	ND		0.00240	0.0200
Zinc	ND		0.00590	0.0500

Laboratory Control Sample (LCS)

(LCS) R4293212-2 10/28/25 19:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	1.00	0.942	94.2	80.0-120	
Arsenic	1.00	0.965	96.5	80.0-120	
Barium	1.00	1.03	103	80.0-120	
Beryllium	1.00	0.990	99.0	80.0-120	
Cadmium	1.00	0.976	97.6	80.0-120	
Calcium	10.0	9.94	99.4	80.0-120	
Chromium	1.00	1.02	102	80.0-120	
Cobalt	1.00	0.935	93.5	80.0-120	
Copper	1.00	1.02	102	80.0-120	
Lead	1.00	0.945	94.5	80.0-120	
Magnesium	10.0	9.82	98.2	80.0-120	
Molybdenum	1.00	0.984	98.4	80.0-120	
Nickel	1.00	0.931	93.1	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4293212-2 10/28/25 19:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Potassium	10.0	10.4	104	80.0-120	
Selenium	1.00	0.937	93.7	80.0-120	
Silver	0.200	0.192	96.2	80.0-120	
Sodium	10.0	10.3	103	80.0-120	
Thallium	1.00	0.995	99.5	80.0-120	
Vanadium	1.00	0.968	96.8	80.0-120	
Zinc	1.00	0.978	97.8	80.0-120	

L1911241-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1911241-03 10/28/25 19:04 • (MS) R4293212-4 10/28/25 19:08 • (MSD) R4293212-5 10/28/25 19:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	1.00	ND	0.938	0.932	93.8	93.2	1	75.0-125			0.562	20
Arsenic	1.00	ND	0.961	0.972	96.1	97.2	1	75.0-125			1.14	20
Barium	1.00	0.428	1.41	1.41	97.9	98.6	1	75.0-125			0.495	20
Beryllium	1.00	ND	0.995	0.991	99.5	99.1	1	75.0-125			0.439	20
Cadmium	1.00	ND	0.961	0.970	96.1	97.0	1	75.0-125			0.958	20
Calcium	10.0	118	126	125	72.7	63.4	1	75.0-125	V	V	0.743	20
Chromium	1.00	ND	0.988	0.997	98.6	99.4	1	75.0-125			0.886	20
Cobalt	1.00	ND	0.941	0.950	94.1	95.0	1	75.0-125			0.953	20
Copper	1.00	ND	0.992	0.996	99.2	99.6	1	75.0-125			0.479	20
Lead	1.00	ND	0.943	0.949	94.3	94.9	1	75.0-125			0.651	20
Magnesium	10.0	35.0	44.3	43.5	92.2	84.2	1	75.0-125			1.82	20
Molybdenum	1.00	ND	0.965	0.971	96.4	97.0	1	75.0-125			0.604	20
Nickel	1.00	ND	0.937	0.944	93.7	94.4	1	75.0-125			0.757	20
Potassium	10.0	6.93	16.9	16.8	100	99.1	1	75.0-125			0.593	20
Selenium	1.00	ND	0.933	0.939	93.3	93.9	1	75.0-125			0.698	20
Silver	0.200	ND	0.188	0.189	93.9	94.7	1	75.0-125			0.882	20
Sodium	10.0	50.7	59.9	59.3	91.9	86.5	1	75.0-125			0.909	20
Thallium	1.00	ND	0.976	0.989	97.6	98.9	1	75.0-125			1.31	20
Vanadium	1.00	ND	0.965	0.959	96.5	95.9	1	75.0-125			0.622	20
Zinc	1.00	ND	0.956	0.964	95.6	96.4	1	75.0-125			0.830	20

Method Blank (MB)

(MB) R4292520-1 10/27/25 15:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic, TCLP	ND		0.00650	0.100
Barium, TCLP	0.00907		0.00170	0.100
Cadmium, TCLP	ND		0.0463	0.100
Chromium, TCLP	ND		0.00140	0.100
Lead, TCLP	ND		0.00190	0.100
Selenium, TCLP	ND		0.00740	0.100
Silver, TCLP	0.0101		0.00280	0.100

Laboratory Control Sample (LCS)

(LCS) R4292520-2 10/27/25 15:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic, TCLP	10.0	10.3	103	80.0-120	
Barium, TCLP	10.0	10.4	104	80.0-120	
Cadmium, TCLP	10.0	10.1	101	80.0-120	
Chromium, TCLP	10.0	10.4	104	80.0-120	
Lead, TCLP	10.0	10.2	102	80.0-120	
Selenium, TCLP	10.0	10.3	103	80.0-120	
Silver, TCLP	2.00	1.91	95.3	80.0-120	

L1910517-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910517-01 10/27/25 15:14 • (MS) R4292520-4 10/27/25 15:18 • (MSD) R4292520-5 10/27/25 15:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, TCLP	10.0	ND	10.0	10.2	100	102	1	75.0-125			1.27	20
Barium, TCLP	10.0	ND	10.4	10.5	104	105	1	75.0-125			0.889	20
Cadmium, TCLP	10.0	ND	9.92	10.0	99.2	100	1	75.0-125			0.750	20
Chromium, TCLP	10.0	ND	10.3	10.4	103	104	1	75.0-125			1.18	20
Lead, TCLP	10.0	ND	9.87	9.91	98.7	99.1	1	75.0-125			0.393	20
Selenium, TCLP	10.0	ND	9.98	9.93	99.8	99.3	1	75.0-125			0.514	20
Silver, TCLP	2.00	ND	1.88	1.88	94.2	94.2	1	75.0-125			0.0352	20

L1910722-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910722-12 10/27/25 15:21 • (MS) R4292520-6 10/27/25 15:23 • (MSD) R4292520-7 10/27/25 15:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic, TCLP	10.0	ND	10.1	9.98	101	99.8	1	75.0-125			0.848	20
Barium, TCLP	10.0	ND	10.6	10.6	106	106	1	75.0-125			0.243	20
Cadmium, TCLP	10.0	ND	9.93	9.96	99.3	99.6	1	75.0-125			0.315	20
Chromium, TCLP	10.0	ND	10.4	10.4	104	104	1	75.0-125			0.204	20
Lead, TCLP	10.0	ND	9.79	9.89	97.9	98.9	1	75.0-125			0.983	20
Selenium, TCLP	10.0	ND	10.0	10.0	100	100	1	75.0-125			0.103	20
Silver, TCLP	2.00	ND	1.88	1.89	94.0	94.3	1	75.0-125			0.390	20

Method Blank (MB)

(MB) R4292183-4 10/26/25 12:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.186	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Chloroethyl vinyl ether	ND		0.575	50.0
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	ND		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromochloromethane	ND		0.145	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromoform	ND		0.186	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	ND		0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	ND		0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00
Vinyl chloride	ND		0.118	0.500

Method Blank (MB)

(MB) R4292183-4 10/26/25 12:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Xylenes, Total	ND		0.316	1.50
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) Toluene-d8	*95.2*			*80.0-120*
(S) 1,2-Dichloroethane-d4	*90.9*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4292183-1 10/26/25 10:20 • (LCSD) R4292183-2 10/26/25 10:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	10.0	10.4	10.5	104	105	75.0-125			0.957	20
1,1,1-Trichloroethane	10.0	11.2	11.3	112	113	73.0-124			0.889	20
1,1,2,2-Tetrachloroethane	10.0	7.91	8.22	79.1	82.2	65.0-130			3.84	20
1,1,2-Trichloroethane	10.0	10.2	10.4	102	104	80.0-120			1.94	20
1,1-Dichloroethane	10.0	8.75	9.04	87.5	90.4	70.0-126			3.26	20
1,1-Dichloroethene	10.0	8.37	8.66	83.7	86.6	71.0-124			3.41	20
1,2,3-Trichloropropane	10.0	8.17	8.65	81.7	86.5	73.0-130			5.71	20
1,2-Dibromo-3-Chloropropane	10.0	9.15	9.20	91.5	92.0	58.0-134			0.545	20
1,2-Dibromoethane	10.0	9.52	9.56	95.2	95.6	80.0-122			0.419	20
1,2-Dichloroethane	10.0	9.82	10.0	98.2	100	70.0-128			1.82	20
1,2-Dichloropropane	10.0	9.44	9.56	94.4	95.6	77.0-125			1.26	20
2-Butanone (MEK)	50.0	42.7	43.7	85.4	87.4	44.0-160			2.31	20
2-Chloroethyl vinyl ether	50.0	50.8	51.3	102	103	51.0-160			0.979	20
2-Hexanone	50.0	49.1	49.4	98.2	98.8	67.0-149			0.609	20
4-Methyl-2-pentanone (MIBK)	50.0	41.7	42.2	83.4	84.4	68.0-142			1.19	20
Acetone	50.0	55.1	57.4	110	115	19.0-160			4.09	27
Acrylonitrile	50.0	49.4	49.5	98.8	99.0	55.0-149			0.202	20
Benzene	10.0	9.39	9.62	93.9	96.2	70.0-123			2.42	20
Bromochloromethane	10.0	10.1	10.4	101	104	76.0-122			2.93	20
Bromodichloromethane	10.0	10.6	10.9	106	109	75.0-120			2.79	20
Bromoform	10.0	10.5	10.6	105	106	68.0-132			0.948	20
Bromomethane	10.0	9.12	10.1	91.2	101	10.0-160			10.2	25
Carbon disulfide	10.0	9.48	10.1	94.8	101	61.0-128			6.33	20
Carbon tetrachloride	10.0	11.6	12.3	116	123	68.0-126			5.86	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4292183-1 10/26/25 10:20 • (LCSD) R4292183-2 10/26/25 10:40

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	10.0	9.46	9.59	94.6	95.9	80.0-121			1.36	20
Chloroethane	10.0	7.68	7.98	76.8	79.8	47.0-150			3.83	20
Chloroform	10.0	9.20	9.50	92.0	95.0	73.0-120			3.21	20
Chloromethane	10.0	7.41	8.07	74.1	80.7	41.0-142			8.53	20
Dibromochloromethane	10.0	9.36	9.63	93.6	96.3	77.0-125			2.84	20
Dibromomethane	10.0	9.65	9.59	96.5	95.9	80.0-120			0.624	20
Ethylbenzene	10.0	9.54	9.64	95.4	96.4	79.0-123			1.04	20
Iodomethane	50.0	46.8	49.5	93.6	99.0	33.0-147			5.61	26
Methylene Chloride	10.0	10.0	10.8	100	108	67.0-120			7.69	20
Styrene	10.0	10.1	10.1	101	101	73.0-130			0.000	20
Tetrachloroethene	10.0	11.1	11.6	111	116	72.0-132			4.41	20
Toluene	10.0	9.33	9.60	93.3	96.0	79.0-120			2.85	20
Trichloroethene	10.0	10.4	10.6	104	106	78.0-124			1.90	20
Trichlorofluoromethane	10.0	10.8	11.7	108	117	59.0-147			8.00	20
Vinyl acetate	50.0	48.3	47.8	96.6	95.6	11.0-160			1.04	20
Vinyl chloride	10.0	7.84	8.31	78.4	83.1	67.0-131			5.82	20
Xylenes, Total	30.0	30.6	30.5	102	102	79.0-123			0.327	20
cis-1,2-Dichloroethene	10.0	10.8	10.9	108	109	73.0-120			0.922	20
cis-1,3-Dichloropropene	10.0	9.81	10.1	98.1	101	80.0-123			2.91	20
trans-1,2-Dichloroethene	10.0	10.5	11.0	105	110	73.0-120			4.65	20
trans-1,3-Dichloropropene	10.0	9.14	9.42	91.4	94.2	78.0-124			3.02	20
trans-1,4-Dichloro-2-butene	10.0	10.1	10.7	101	107	33.0-144			5.77	20
(S) 4-Bromofluorobenzene				*105*	*103*	*77.0-126*				
(S) Toluene-d8				*94.4*	*94.1*	*80.0-120*				
(S) 1,2-Dichloroethane-d4				*93.4*	*93.6*	*70.0-130*				

Method Blank (MB)

(MB) R4293589-4 10/27/25 02:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.120	0.500
1,1,1-Trichloroethane	ND		0.0940	0.500
1,1,2,2-Tetrachloroethane	ND		0.130	0.500
1,1,2-Trichloroethane	ND		0.186	0.500
1,1-Dichloroethane	ND		0.114	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.247	2.50
1,2-Dibromo-3-Chloropropane	ND		0.325	2.50
1,2-Dibromoethane	ND		0.193	0.500
1,2-Dichloroethane	ND		0.108	0.500
1,2-Dichloropropane	ND		0.190	0.500
2-Butanone (MEK)	ND		1.28	5.00
2-Chloroethyl vinyl ether	ND		0.575	50.0
2-Hexanone	ND		0.757	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.823	5.00
Acetone	ND		1.05	25.0
Acrylonitrile	ND		0.873	5.00
Benzene	ND		0.0896	0.500
Bromochloromethane	ND		0.145	0.500
Bromodichloromethane	ND		0.0800	0.500
Bromoform	ND		0.186	0.500
Bromomethane	ND		0.157	2.50
Carbon disulfide	ND		0.101	0.500
Carbon tetrachloride	ND		0.159	0.500
Chlorobenzene	ND		0.140	0.500
Chloroethane	ND		0.141	2.50
Chloroform	ND		0.0860	0.500
Chloromethane	ND		0.153	1.25
Dibromochloromethane	ND		0.128	0.500
Dibromomethane	ND		0.117	0.500
Ethylbenzene	ND		0.158	0.500
Iodomethane	ND		0.377	10.0
Methylene Chloride	ND		1.07	2.50
Styrene	ND		0.117	0.500
Tetrachloroethene	ND		0.199	0.500
Toluene	ND		0.412	0.500
Trichloroethene	ND		0.153	0.500
Trichlorofluoromethane	ND		0.130	2.50
Vinyl acetate	ND		0.645	5.00
Vinyl chloride	ND		0.118	0.500

Method Blank (MB)

(MB) R4293589-4 10/27/25 02:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Xylenes, Total	ND		0.316	1.50
cis-1,2-Dichloroethene	ND		0.0933	0.500
cis-1,3-Dichloropropene	ND		0.0976	0.500
trans-1,2-Dichloroethene	ND		0.152	0.500
trans-1,3-Dichloropropene	ND		0.222	0.500
trans-1,4-Dichloro-2-butene	ND		0.257	5.00
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) Toluene-d8	*96.4*			*80.0-120*
(S) 1,2-Dichloroethane-d4	*88.5*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4293589-1 10/27/25 00:31 • (LCSD) R4293589-2 10/27/25 00:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	10.0	9.75	9.71	97.5	97.1	75.0-125			0.411	20
1,1,1-Trichloroethane	10.0	10.8	10.7	108	107	73.0-124			0.930	20
1,1,2,2-Tetrachloroethane	10.0	7.37	7.47	73.7	74.7	65.0-130			1.35	20
1,1,2-Trichloroethane	10.0	9.68	9.46	96.8	94.6	80.0-120			2.30	20
1,1-Dichloroethane	10.0	8.39	8.27	83.9	82.7	70.0-126			1.44	20
1,1-Dichloroethene	10.0	7.92	7.99	79.2	79.9	71.0-124			0.880	20
1,2,3-Trichloropropane	10.0	8.04	8.35	80.4	83.5	73.0-130			3.78	20
1,2-Dibromo-3-Chloropropane	10.0	9.51	9.25	95.1	92.5	58.0-134			2.77	20
1,2-Dibromoethane	10.0	8.74	8.63	87.4	86.3	80.0-122			1.27	20
1,2-Dichloroethane	10.0	9.50	9.45	95.0	94.5	70.0-128			0.528	20
1,2-Dichloropropane	10.0	8.77	8.92	87.7	89.2	77.0-125			1.70	20
2-Butanone (MEK)	50.0	42.8	40.0	85.6	80.0	44.0-160			6.76	20
2-Chloroethyl vinyl ether	50.0	47.4	47.7	94.8	95.4	51.0-160	J	J	0.631	20
2-Hexanone	50.0	45.1	45.5	90.2	91.0	67.0-149			0.883	20
4-Methyl-2-pentanone (MIBK)	50.0	39.8	38.7	79.6	77.4	68.0-142			2.80	20
Acetone	50.0	42.9	43.0	85.8	86.0	19.0-160			0.233	27
Acrylonitrile	50.0	45.2	42.9	90.4	85.8	55.0-149			5.22	20
Benzene	10.0	9.01	8.92	90.1	89.2	70.0-123			1.00	20
Bromochloromethane	10.0	9.51	9.68	95.1	96.8	76.0-122			1.77	20
Bromodichloromethane	10.0	10.2	10.3	102	103	75.0-120			0.976	20
Bromoform	10.0	10.1	10.1	101	101	68.0-132			0.000	20
Bromomethane	10.0	8.05	8.43	80.5	84.3	10.0-160			4.61	25
Carbon disulfide	10.0	9.28	9.09	92.8	90.9	61.0-128			2.07	20
Carbon tetrachloride	10.0	11.5	11.6	115	116	68.0-126			0.866	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4293589-1 10/27/25 00:31 • (LCSD) R4293589-2 10/27/25 00:51

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	10.0	9.11	8.99	91.1	89.9	80.0-121			1.33	20
Chloroethane	10.0	6.91	7.59	69.1	75.9	47.0-150			9.38	20
Chloroform	10.0	8.88	8.70	88.8	87.0	73.0-120			2.05	20
Chloromethane	10.0	7.21	6.58	72.1	65.8	41.0-142			9.14	20
Dibromochloromethane	10.0	9.12	8.89	91.2	88.9	77.0-125			2.55	20
Dibromomethane	10.0	9.03	9.20	90.3	92.0	80.0-120			1.87	20
Ethylbenzene	10.0	9.06	9.07	90.6	90.7	79.0-123			0.110	20
Iodomethane	50.0	46.3	45.7	92.6	91.4	33.0-147			1.30	26
Methylene Chloride	10.0	9.40	9.37	94.0	93.7	67.0-120			0.320	20
Styrene	10.0	9.47	9.42	94.7	94.2	73.0-130			0.529	20
Tetrachloroethene	10.0	11.1	10.9	111	109	72.0-132			1.82	20
Toluene	10.0	8.96	8.89	89.6	88.9	79.0-120			0.784	20
Trichloroethene	10.0	10.5	10.2	105	102	78.0-124			2.90	20
Trichlorofluoromethane	10.0	10.6	10.9	106	109	59.0-147			2.79	20
Vinyl acetate	50.0	35.8	37.9	71.6	75.8	11.0-160			5.70	20
Vinyl chloride	10.0	6.86	6.94	68.6	69.4	67.0-131			1.16	20
Xylenes, Total	30.0	28.8	28.6	96.0	95.3	79.0-123			0.697	20
cis-1,2-Dichloroethene	10.0	10.0	9.85	100	98.5	73.0-120			1.51	20
cis-1,3-Dichloropropene	10.0	9.47	9.43	94.7	94.3	80.0-123			0.423	20
trans-1,2-Dichloroethene	10.0	10.3	10.2	103	102	73.0-120			0.976	20
trans-1,3-Dichloropropene	10.0	8.70	8.60	87.0	86.0	78.0-124			1.16	20
trans-1,4-Dichloro-2-butene	10.0	8.22	8.06	82.2	80.6	33.0-144			1.97	20
(S) 4-Bromofluorobenzene				*102*	*101*	*77.0-126*				
(S) Toluene-d8				*93.9*	*93.9*	*80.0-120*				
(S) 1,2-Dichloroethane-d4				*93.4*	*87.3*	*70.0-130*				

L1910683-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910683-09 10/27/25 04:42 • (MS) R4293589-5 10/27/25 07:55 • (MSD) R4293589-6 10/27/25 08:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	10.0	ND	10.1	9.86	101	98.6	1	36.0-151			2.40	29
1,1,1-Trichloroethane	10.0	ND	10.5	10.1	105	101	1	23.0-160			3.88	28
1,1,2,2-Tetrachloroethane	10.0	ND	8.28	7.85	82.8	78.5	1	33.0-150			5.33	28
1,1,2-Trichloroethane	10.0	ND	9.96	9.61	99.6	96.1	1	35.0-147			3.58	27
1,1-Dichloroethane	10.0	ND	8.13	7.99	81.3	79.9	1	25.0-158			1.74	27
1,1-Dichloroethene	10.0	ND	7.32	7.33	73.2	73.3	1	11.0-160			0.137	29
1,2,3-Trichloropropane	10.0	ND	8.74	8.36	87.4	83.6	1	34.0-151			4.44	29
1,2-Dibromo-3-Chloropropane	10.0	ND	10.4	10.0	104	100	1	22.0-151			3.92	34

L1910683-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910683-09 10/27/25 04:42 • (MS) R4293589-5 10/27/25 07:55 • (MSD) R4293589-6 10/27/25 08:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2-Dibromoethane	10.0	ND	9.50	9.13	95.0	91.3	1	34.0-147			3.97	27
1,2-Dichloroethane	10.0	ND	10.0	9.84	100	98.4	1	29.0-151			1.61	27
1,2-Dichloropropane	10.0	ND	8.70	8.86	87.0	88.6	1	30.0-156			1.82	27
2-Butanone (MEK)	50.0	ND	37.0	34.3	74.0	68.6	1	10.0-160			7.57	32
2-Chloroethyl vinyl ether	50.0	ND	ND	ND	0.000	0.000	1	10.0-160	J6	J6	0.000	31
2-Hexanone	50.0	ND	52.8	50.5	106	101	1	21.0-160			4.45	29
4-Methyl-2-pentanone (MIBK)	50.0	ND	42.6	41.0	85.2	82.0	1	29.0-160			3.83	29
Acetone	50.0	ND	68.9	63.3	138	127	1	10.0-160			8.47	35
Acrylonitrile	50.0	ND	50.8	49.4	102	98.8	1	21.0-160			2.79	32
Benzene	10.0	ND	8.81	8.63	88.1	86.3	1	17.0-158			2.06	27
Bromochloromethane	10.0	ND	9.88	9.47	98.8	94.7	1	38.0-142			4.24	26
Bromodichloromethane	10.0	ND	10.6	10.5	106	105	1	31.0-150			0.948	27
Bromoform	10.0	ND	11.2	10.8	112	108	1	29.0-150			3.64	29
Bromomethane	10.0	ND	7.45	7.98	74.5	79.8	1	10.0-160			6.87	38
Carbon disulfide	10.0	ND	7.81	7.57	78.1	75.7	1	10.0-156			3.12	28
Carbon tetrachloride	10.0	ND	11.1	11.0	111	110	1	23.0-159			0.905	28
Chlorobenzene	10.0	ND	9.12	8.79	91.2	87.9	1	33.0-152			3.69	27
Chloroethane	10.0	ND	7.14	6.52	71.4	65.2	1	10.0-160			9.08	30
Chloroform	10.0	ND	8.58	8.65	85.8	86.5	1	29.0-154			0.813	28
Chloromethane	10.0	ND	6.31	6.07	63.1	60.7	1	10.0-160			3.88	29
Dibromochloromethane	10.0	ND	9.56	9.24	95.6	92.4	1	37.0-149			3.40	27
Dibromomethane	10.0	ND	9.83	9.66	98.3	96.6	1	30.0-151			1.74	27
Ethylbenzene	10.0	ND	8.93	8.89	89.3	88.9	1	30.0-155			0.449	27
Iodomethane	50.0	ND	44.6	43.5	89.2	87.0	1	10.0-160			2.50	40
Methylene Chloride	10.0	ND	9.39	8.76	93.9	87.6	1	23.0-144			6.94	28
Styrene	10.0	ND	9.45	9.34	94.5	93.4	1	33.0-155			1.17	28
Tetrachloroethene	10.0	ND	10.5	10.4	105	104	1	10.0-160			0.957	27
Toluene	10.0	ND	8.78	8.67	87.8	86.7	1	26.0-154			1.26	28
Trichloroethene	10.0	ND	9.83	9.58	98.3	95.8	1	10.0-160			2.58	25
Trichlorofluoromethane	10.0	ND	10.8	10.2	108	102	1	17.0-160			5.71	31
Vinyl acetate	50.0	ND	45.1	43.4	90.2	86.8	1	12.0-160			3.84	31
Vinyl chloride	10.0	ND	6.21	6.12	62.1	61.2	1	10.0-160			1.46	27
Xylenes, Total	30.0	ND	28.2	27.8	94.0	92.7	1	29.0-154			1.43	28
cis-1,2-Dichloroethene	10.0	ND	9.94	9.60	99.4	96.0	1	10.0-160			3.48	27
cis-1,3-Dichloropropene	10.0	ND	9.36	9.25	93.6	92.5	1	34.0-149			1.18	28
trans-1,2-Dichloroethene	10.0	ND	9.88	9.89	98.8	98.9	1	17.0-153			0.101	27
trans-1,3-Dichloropropene	10.0	ND	8.93	8.47	89.3	84.7	1	32.0-149			5.29	28
trans-1,4-Dichloro-2-butene	10.0	ND	8.62	7.87	86.2	78.7	1	10.0-157			9.10	37
(S) 4-Bromofluorobenzene					*102*	*104*		*77.0-126*				
(S) Toluene-d8					*94.3*	*95.1*		*80.0-120*				

L1910683-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910683-09 10/27/25 04:42 • (MS) R4293589-5 10/27/25 07:55 • (MSD) R4293589-6 10/27/25 08:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) 1,2-Dichloroethane-d4					*94.1*	*97.4*		*70.0-130*				

Method Blank (MB)

(MB) R4293579-2 10/28/25 21:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
2,4,5-Trichlorophenol	ND		0.000236	0.0100
2,4,6-Trichlorophenol	ND		0.000100	0.0100
2,4-Dichlorophenol	ND		0.000102	0.0100
2,4-Dimethylphenol	ND		0.0000636	0.0100
2,4-Dinitrophenol	ND		0.00593	0.0100
2-Chlorophenol	ND		0.000133	0.0100
2-Nitrophenol	ND		0.000117	0.0100
4,6-Dinitro-2-methylphenol	ND		0.00112	0.0100
4-Chloro-3-methylphenol	ND		0.000131	0.0100
4-Nitrophenol	ND		0.000143	0.0100
Benzoic acid	ND		0.00170	0.0500
Pentachlorophenol	0.000852	J	0.000313	0.0100
(S) Phenol-d5	*19.0*			*10.0-120*
(S) p-Terphenyl-d14	*101*			*10.0-128*
(S) Nitrobenzene-d5	*30.5*			*10.0-127*
(S) 2-Fluorophenol	*29.7*			*10.0-120*
(S) 2-Fluorobiphenyl	*45.9*			*10.0-130*
(S) 2,4,6-Tribromophenol	*79.5*			*10.0-155*

Laboratory Control Sample (LCS)

(LCS) R4293579-1 10/28/25 21:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
2,4,5-Trichlorophenol	0.0500	0.0472	94.4	44.0-120	
2,4,6-Trichlorophenol	0.0500	0.0486	97.2	42.0-120	
2,4-Dichlorophenol	0.0500	0.0425	85.0	36.0-120	
2,4-Dimethylphenol	0.0500	0.0339	67.8	33.0-120	
2,4-Dinitrophenol	0.0500	0.0455	91.0	10.0-120	
2-Chlorophenol	0.0500	0.0358	71.6	25.0-120	
2-Nitrophenol	0.0500	0.0432	86.4	31.0-120	
4,6-Dinitro-2-methylphenol	0.0500	0.0477	95.4	38.0-138	
4-Chloro-3-methylphenol	0.0500	0.0388	77.6	40.0-120	
4-Nitrophenol	0.0500	0.0188	37.6	10.0-120	
Benzoic acid	0.100	0.0390	39.0	10.0-120	J
Pentachlorophenol	0.0500	0.0467	93.4	23.0-120	
(S) Phenol-d5			*30.3*	*10.0-120*	
(S) p-Terphenyl-d14			*104*	*10.0-128*	
(S) Nitrobenzene-d5			*67.4*	*10.0-127*	

Laboratory Control Sample (LCS)

(LCS) R4293579-1 10/28/25 21:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) 2-Fluorophenol			*49.0*	*10.0-120*	
(S) 2-Fluorobiphenyl			*89.9*	*10.0-130*	
(S) 2,4,6-Tribromophenol			*118*	*10.0-155*	

L1911253-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1911253-01 10/29/25 00:12 • (MS) R4293579-3 10/29/25 00:34 • (MSD) R4293579-4 10/29/25 00:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4,5-Trichlorophenol	0.0500	ND	0.0446	0.0415	89.2	83.0	1	33.0-120			7.20	31
2,4,6-Trichlorophenol	0.0500	ND	0.0458	0.0428	91.6	85.6	1	26.0-120			6.77	31
2,4-Dichlorophenol	0.0500	ND	0.0338	0.0313	67.6	62.6	1	19.0-120			7.68	27
2,4-Dimethylphenol	0.0500	ND	0.0303	0.0276	60.6	55.2	1	15.0-120			9.33	28
2,4-Dinitrophenol	0.0500	ND	0.0406	0.0381	81.2	76.2	1	10.0-120			6.35	40
2-Chlorophenol	0.0500	ND	0.0272	0.0228	54.4	45.6	1	18.0-120			17.6	34
2-Nitrophenol	0.0500	ND	0.0315	0.0287	63.0	57.4	1	20.0-120			9.30	30
4,6-Dinitro-2-methylphenol	0.0500	ND	0.0454	0.0439	90.8	87.8	1	10.0-144			3.36	39
4-Chloro-3-methylphenol	0.0500	ND	0.0357	0.0337	71.4	67.4	1	26.0-120			5.76	27
4-Nitrophenol	0.0500	ND	0.0166	0.0155	33.2	31.0	1	10.0-120			6.85	40
Benzoic acid	0.100	ND	ND	ND	45.4	41.4	1	10.0-120			9.22	40
Pentachlorophenol	0.0500	ND	0.0451	0.0421	87.2	81.2	1	10.0-128			6.88	37
(S) Phenol-d5					*27.6*	*24.6*		*10.0-120*				
(S) p-Terphenyl-d14					*107*	*104*		*10.0-128*				
(S) Nitrobenzene-d5					*48.5*	*43.3*		*10.0-127*				
(S) 2-Fluorophenol					*44.5*	*37.0*		*10.0-120*				
(S) 2-Fluorobiphenyl					*74.8*	*70.4*		*10.0-130*				
(S) 2,4,6-Tribromophenol					*119*	*115*		*10.0-155*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
J-	The associated batch QC was outside the lower control limits; associated data has a potential negative bias.

GLOSSARY OF TERMS

Qualifier	Description
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Qrtly WWTP-Leachate List 1(1,4,7,10)

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
500

Lab Project #
WMCENIA-00003

Collected by (print):
Kenneth Smith

Site/Facility ID #
IA02

P.O. #
14491265

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8270 100ml Amb NoPres	ALK,Cl,SO4, pH 125mlHDPE-NoPres	BODLL 1L-HDPE-NoPres	CN 250mlHDPEAmb-NaOH	CR6 250mlHDPE-NoPres	Metals 250mlHDPE-HNO3	NH3,NO2NO3,PT-LL,TKN 250mlHDPE-H2SO4	OGHEX 1L-Cl-WT-HCl	TCLP Mtls 1L-Clr-NoPres	TSS 1L-HDPE NoPres	Remarks	Sample # (lab only)
LEACHATE POND #1	G	GW		10/22/25	1120	15	X	X	X	X	X	X	X	X	X	X		-01/05
LEACHATE POND #2	G	GW		10/22/25	1110	15	X	X	X	X	X	X	X	X	X	X		02/06
LEACHATE POND #3	G	GW		10/22/25	1025	15	X	X	X	X	X	X	X	X	X	X		03/07
LEACHATE POND #4	G	GW		10/22/25	1035	15	X	X	X	X	X	X	X	X	X	X		04/08

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1916502

J205

Acctnum: **WMCENIA**
Template:**T237544**
Prelogin: **P1178282**
PM: **3564 - Chad A Upchurch**
PB: 9/25/25 mv
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

PH – 10BDH07251
TRC – 5090A93

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	10/22/25	1630	FEDEX
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received: 60

Date: 10/23/25 Time: 830

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Qrtly WWTP-Leachate List 1(1,4,7,10)

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
500

Lab Project #
WMCENIA-00003

Collected by (print):
Kenneth Smith

Site/Facility ID #
IA02

P.O. #
14491265

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

V8260LLAP9C 40mlAmb-HCl

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1910502

Table #

Acctnum: **WMCENIA**
Template: **T237544**
Prelogin: **P1178282**
PM: **3564 - Chad A Upchurch**
PB: 9/25/25 mv
Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260LLAP9C 40mlAmb-HCl	Remarks	Sample # (lab only)
LEACHATE POND #1	G	GW		10/22/25	1120	15	X		-01 105
LEACHATE POND #2	G	GW		10/22/25	1110	15	X		02 106
LEACHATE POND #3	G	GW		10/22/25	1025	15	X		03 107
LEACHATE POND #4	G	GW		10/22/25	1035	15	X		04 108

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	10/22/25	1630	FEDEX		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 60	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 10/23/25 Time: 830	Hold: Condition: NCF / OK

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Site Name: CDS

Sample I.D.: Leachate pond 1

Laboratory Use Only / Lab I.D.: L1910502

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D — D - Direct, I - Indirect, V - Visual

Sampling Equipment: D — D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other

Sample Type: Grab / Composite (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
10/22/2025	1120	~~7.46~~ 8.30	~~16480~~ (umhos/cm) 30100	~~8.40~~ 7.88			

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Moderate Color: Black Other:

Sheen Present [Y] or [N] Foam Present: [Y] or [N] Floating Solids: [Y] or [N]

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: Precipitation: [Y] or [N]

Specific Comments:

Date	Name	Signature	Company
10/22/25	Kenneth Smith		Alliance

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Site Name: CDS

Sample I.D.: leachate pond 2

Laboratory Use Only / Lab I.D.: L1910502

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D — D - Direct, I - Indirect, V - Visual

Sampling Equipment: D — D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other

Sample Type: Grab / Composite (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
10/22/19	1110	8.55	8307	8.85			

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Moderate Color: Black Other:

Sheen Present Y or (N) Foam Present: (Y) or N Floating Solids: Y or (N)

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: Precipitation: Y or N

Specific Comments:

Date	Name	Signature	Company
10/22/19	Kenneth Smith		

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Site Name: CDS

Sample I.D.: Leachate pond 3

Laboratory Use Only / Lab I.D.: L1910502

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D — D - Direct, I - Indirect, V - Visual

Sampling Equipment: D — D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other

Sample Type: ( ) Grab / Composite (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
10/22/2025	1025	8.02	8421	10.5			

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Blank Color: Moderate Other:

Sheen Present [Y] or [N] Foam Present: [Y] or [N] Floating Solids: [Y] or [N]

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: 13mph SE Precipitation: [Y] or [N]

Specific Comments:

Date	Name	Signature	Company
10/22/25	Kenneth Smith		Alliance

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Site Name: CDS

Sample I.D.: Leachate Pond 4

Laboratory Use Only / Lab I.D.: L1910502

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D — D - Direct, I - Indirect, V - Visual

Sampling Equipment: D — D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other

Sample Type: (Grab) / Composite (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
10/22/2023	1035	7.96	16980	10.4			

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Moderate Color: Black Other:

Sheen Present Y or (N) Foam Present: (Y) or N Floating Solids: Y or (N)

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: Precipitation: Y or N

Specific Comments:

Date	Name	Signature	Company
10/22/23	Kenneth Smith		Alliance

DC#_Title: Excel Form Template
Effective Date:

Multiple Parcel Form L# L1910502

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
9405511899561956695730	A9	0.3	+0	0.3	Yes / No / Not Present
9405511899561956695898		0.1		0.1	Yes / No / Not Present
9405511899561956696048		1.3		1.3	Yes / No / Not Present
P1178782		1.0		1.0	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Name

Date

ANALYTICAL REPORT

November 07, 2025

Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1910886
Samples Received:	10/23/2025
Project Number:	500
Description:	Semi-Annual WWTP Leachate List 2
Site:	IA02
Report To:	Aaron Rebmann 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

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Leachate Pond #1 L1910886-01

Collected by: Kenneth Smith | Collected date/time: 10/22/25 11:20 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Pesticides (GC) by Method EPA 608.3	WG2626819	20.6	10/24/25 07:36	10/24/25 20:44	MEW	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2627385	2.06	10/24/25 07:36	10/26/25 11:06	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2627873	5.45	10/27/25 07:02	11/06/25 02:54	KB	Mt. Juliet, TN

Leachate Pond #2 L1910886-02

Collected by: Kenneth Smith | Collected date/time: 10/22/25 11:10 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Pesticides (GC) by Method EPA 608.3	WG2626819	1	10/24/25 07:36	10/27/25 22:56	JKB	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2627385	2	10/24/25 07:36	10/26/25 10:38	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2627874	50	10/28/25 08:09	10/31/25 18:39	KB	Mt. Juliet, TN

Leachate Pond #4 L1910886-03

Collected by: Kenneth Smith | Collected date/time: 10/22/25 10:35 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Pesticides (GC) by Method EPA 608.3	WG2626819	1	10/24/25 07:36	10/24/25 20:12	MEW	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2627385	2	10/24/25 07:36	10/26/25 10:47	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2627874	10	10/28/25 08:09	10/31/25 17:33	KB	Mt. Juliet, TN

Leachate Pond #3 L1910886-04

Collected by: Kenneth Smith | Collected date/time: 10/22/25 10:25 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Pesticides (GC) by Method EPA 608.3	WG2626819	1.01	10/24/25 07:36	10/27/25 22:47	JKB	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG2627385	2.02	10/24/25 07:36	10/26/25 10:56	LTB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2627874	5	10/28/25 08:09	10/31/25 16:06	KB	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

WG2627385;608.3: Dilution due to sulfur cleanup. L1910886-02, L1910886-03

Pesticides (GC) by Method EPA 608.3

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2626819	Decachlorobiphenyl	L1910886-02, 03

Surrogate recovery cannot be used for control limit evaluation due to dilution.

Batch	Analyte	Lab Sample ID
WG2626819	Decachlorobiphenyl	L1910886-01
WG2626819	Tetrachloro-m-xylene	L1910886-01

Polychlorinated Biphenyls (GC) by Method EPA-608.3

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2627385	Decachlorobiphenyl	L1910886-02, 03

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Surrogate recovery cannot be used for control limit evaluation due to dilution.

Batch	Analyte	Lab Sample ID
WG2627874	2-Fluorobiphenyl	L1910886-02
WG2627874	Nitrobenzene-d5	L1910886-02
WG2627874	p-Terphenyl-d14	L1910886-02

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG2627873	p-Terphenyl-d14	L1910886-01

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2627873	(LCS) R4296982-1, L1910886-01	2-Chloronaphthalene and Pyrene

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2627873	(MS) R4296957-1, (MSD) R4296957-2	2-Chloronaphthalene
WG2627874	(MSD) R4294825-4	3,3-Dichlorobenzidine

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2627874	(MSD) R4294825-4	1,3-Dichlorobenzene and 3,3-Dichlorobenzidine

Pesticides (GC) by Method EPA 608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
4,4-DDD	ND		0.000350	20.6	10/24/2025 20:44	WG2626819
4,4-DDE	ND		0.000338	20.6	10/24/2025 20:44	WG2626819
4,4-DDT	ND		0.000365	20.6	10/24/2025 20:44	WG2626819
Aldrin	ND		0.000167	20.6	10/24/2025 20:44	WG2626819
Beta BHC	ND		0.000379	20.6	10/24/2025 20:44	WG2626819
Chlordane	ND		0.00201	20.6	10/24/2025 20:44	WG2626819
Delta BHC	ND		0.000406	20.6	10/24/2025 20:44	WG2626819
Dieldrin	ND		0.000155	20.6	10/24/2025 20:44	WG2626819
Endosulfan I	ND		0.000369	20.6	10/24/2025 20:44	WG2626819
Endosulfan II	ND		0.000363	20.6	10/24/2025 20:44	WG2626819
Endosulfan sulfate	ND		0.000404	20.6	10/24/2025 20:44	WG2626819
Endrin	ND		0.000389	20.6	10/24/2025 20:44	WG2626819
Endrin aldehyde	ND		0.000293	20.6	10/24/2025 20:44	WG2626819
Gamma BHC	ND		0.000363	20.6	10/24/2025 20:44	WG2626819
Heptachlor	ND		0.000222	20.6	10/24/2025 20:44	WG2626819
Heptachlor epoxide	ND		0.000361	20.6	10/24/2025 20:44	WG2626819
Toxaphene	ND		0.00346	20.6	10/24/2025 20:44	WG2626819
(S) Tetrachloro-m-xylene	*37.1*	J7		*10.0-135*	*10/24/2025 20:44*	WG2626819
(S) Decachlorobiphenyl	*15.8*	J7		*10.0-144*	*10/24/2025 20:44*	WG2626819

Sample Narrative:

L1910886-01 WG2626819: Dilution due to matrix.

Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000500	2.06	10/26/2025 11:06	WG2627385
PCB 1221	ND		0.000500	2.06	10/26/2025 11:06	WG2627385
PCB 1232	ND		0.000500	2.06	10/26/2025 11:06	WG2627385
PCB 1242	ND		0.000500	2.06	10/26/2025 11:06	WG2627385
PCB 1248	ND		0.000500	2.06	10/26/2025 11:06	WG2627385
PCB 1254	ND		0.000500	2.06	10/26/2025 11:06	WG2627385
PCB 1260	ND		0.000500	2.06	10/26/2025 11:06	WG2627385
(S) Tetrachloro-m-xylene	*13.5*			*10.0-135*	*10/26/2025 11:06*	WG2627385
(S) Decachlorobiphenyl	*10.2*			*10.0-144*	*10/26/2025 11:06*	WG2627385

Sample Narrative:

L1910886-01 WG2627385: Dilution due to sulfur cleanup.

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
1,2-Dichlorobenzene	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
1,3-Dichlorobenzene	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
1,4-Dichlorobenzene	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
2,4-Dinitrotoluene	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
2,6-Dinitrotoluene	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
2-Chloronaphthalene	ND	J4	0.00100	5.45	11/06/2025 02:54	WG2627873
3,3-Dichlorobenzidine	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
4-Bromophenyl-phenylether	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
4-Chlorophenyl-phenylether	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
Acenaphthene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Acenaphthylene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Anthracene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Benzo(a)anthracene	ND		0.00108	5.45	11/06/2025 02:54	WG2627873
Benzo(a)pyrene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Benzo(b)fluoranthene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Benzo(g,h,i)perylene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Benzo(k)fluoranthene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Benzyl alcohol	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
Benzylbutyl phthalate	ND		0.00417	5.45	11/06/2025 02:54	WG2627873
Bis(2-Ethylhexyl)phthalate	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
Bis(2-chlorethoxy)methane	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
Bis(2-chloroethyl)ether	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
Chrysene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Di-n-butyl phthalate	ND		0.00300	5.45	11/06/2025 02:54	WG2627873
Di-n-octyl phthalate	ND		0.00508	5.45	11/06/2025 02:54	WG2627873
Dibenz(a,h)anthracene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Dibenzofuran	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
Diethyl phthalate	ND		0.00300	5.45	11/06/2025 02:54	WG2627873
Dimethyl phthalate	ND		0.00300	5.45	11/06/2025 02:54	WG2627873
Fluoranthene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Fluorene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Hexachloro-1,3-butadiene	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
Hexachlorobenzene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Hexachlorocyclopentadiene	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
Hexachloroethane	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
Indeno(1,2,3-cd)pyrene	ND		0.00152	5.45	11/06/2025 02:54	WG2627873
Isophorone	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
Naphthalene	ND		0.00203	5.45	11/06/2025 02:54	WG2627873
Nitrobenzene	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
Phenanthrene	ND		0.00100	5.45	11/06/2025 02:54	WG2627873
Pyrene	ND	J4	0.00100	5.45	11/06/2025 02:54	WG2627873
n-Nitrosodi-n-propylamine	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
n-Nitrosodiphenylamine	ND		0.0129	5.45	11/06/2025 02:54	WG2627873
2,2-Oxybis(1-Chloropropane)	ND		0.0100	5.45	11/06/2025 02:54	WG2627873
(S) Nitrobenzene-d5	*52.8*			*15.0-314*	*11/06/2025 02:54*	WG2627873
(S) 2-Fluorobiphenyl	*34.5*			*22.0-127*	*11/06/2025 02:54*	WG2627873
(S) p-Terphenyl-d14	*24.4*	J2		*29.0-141*	*11/06/2025 02:54*	WG2627873

Sample Narrative:

L1910886-01 WG2627873: Dilution and surrogate failure due to matrix interference.

Pesticides (GC) by Method EPA 608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
4,4-DDD	ND		0.0000500	1	10/27/2025 22:56	WG2626819
4,4-DDE	ND		0.0000500	1	10/27/2025 22:56	WG2626819
4,4-DDT	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Aldrin	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Beta BHC	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Chlordane	ND		0.000500	1	10/27/2025 22:56	WG2626819
Delta BHC	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Dieldrin	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Endosulfan I	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Endosulfan II	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Endosulfan sulfate	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Endrin	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Endrin aldehyde	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Gamma BHC	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Heptachlor	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Heptachlor epoxide	ND		0.0000500	1	10/27/2025 22:56	WG2626819
Toxaphene	ND		0.000500	1	10/27/2025 22:56	WG2626819
(S) Tetrachloro-m-xylene	*19.4*			*10.0-135*	*10/27/2025 22:56*	WG2626819
(S) Decachlorobiphenyl	*8.83*	J2		*10.0-144*	*10/27/2025 22:56*	WG2626819

Sample Narrative:

L1910886-02 WG2626819: Surrogate failure due to matrix interference

Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000500	2	10/26/2025 10:38	WG2627385
PCB 1221	ND		0.000500	2	10/26/2025 10:38	WG2627385
PCB 1232	ND		0.000500	2	10/26/2025 10:38	WG2627385
PCB 1242	ND		0.000500	2	10/26/2025 10:38	WG2627385
PCB 1248	ND		0.000500	2	10/26/2025 10:38	WG2627385
PCB 1254	ND		0.000500	2	10/26/2025 10:38	WG2627385
PCB 1260	ND		0.000500	2	10/26/2025 10:38	WG2627385
(S) Tetrachloro-m-xylene	*12.9*			*10.0-135*	*10/26/2025 10:38*	WG2627385
(S) Decachlorobiphenyl	*6.02*	J2		*10.0-144*	*10/26/2025 10:38*	WG2627385

Sample Narrative:

L1910886-02 WG2627385: Sample produced emulsion during Extraction process, low surr/spike recoveries due to matrix.

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.0100	50	10/31/2025 18:39	WG2627874
1,2-Dichlorobenzene	ND		0.0100	50	10/31/2025 18:39	WG2627874
1,3-Dichlorobenzene	ND		0.0100	50	10/31/2025 18:39	WG2627874
1,4-Dichlorobenzene	ND		0.0100	50	10/31/2025 18:39	WG2627874
2,4-Dinitrotoluene	ND		0.0100	50	10/31/2025 18:39	WG2627874
2,6-Dinitrotoluene	ND		0.0125	50	10/31/2025 18:39	WG2627874
2-Chloronaphthalene	ND		0.00324	50	10/31/2025 18:39	WG2627874
3,3-Dichlorobenzidine	ND		0.0106	50	10/31/2025 18:39	WG2627874
4-Bromophenyl-phenylether	ND		0.0100	50	10/31/2025 18:39	WG2627874
4-Chlorophenyl-phenylether	ND		0.0100	50	10/31/2025 18:39	WG2627874
Acenaphthene	ND		0.00443	50	10/31/2025 18:39	WG2627874
Acenaphthylene	ND		0.00460	50	10/31/2025 18:39	WG2627874
Anthracene	ND		0.00402	50	10/31/2025 18:39	WG2627874

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Benzo(a)anthracene	ND		0.00995	50	10/31/2025 18:39	WG2627874
Benzo(a)pyrene	ND		0.00190	50	10/31/2025 18:39	WG2627874
Benzo(b)fluoranthene	ND		0.00650	50	10/31/2025 18:39	WG2627874
Benzo(g,h,i)perylene	ND		0.00605	50	10/31/2025 18:39	WG2627874
Benzo(k)fluoranthene	ND		0.00600	50	10/31/2025 18:39	WG2627874
Benzyl alcohol	ND		0.0282	50	10/31/2025 18:39	WG2627874
Benzylbutyl phthalate	ND		0.0383	50	10/31/2025 18:39	WG2627874
Bis(2-Ethylhexyl)phthalate	ND		0.0448	50	10/31/2025 18:39	WG2627874
Bis(2-chlorethoxy)methane	ND		0.0100	50	10/31/2025 18:39	WG2627874
Bis(2-chloroethyl)ether	ND		0.0100	50	10/31/2025 18:39	WG2627874
Chrysene	ND		0.00650	50	10/31/2025 18:39	WG2627874
Di-n-butyl phthalate	ND		0.0227	50	10/31/2025 18:39	WG2627874
Di-n-octyl phthalate	ND		0.0466	50	10/31/2025 18:39	WG2627874
Dibenz(a,h)anthracene	ND		0.00322	50	10/31/2025 18:39	WG2627874
Dibenzofuran	ND		0.0100	50	10/31/2025 18:39	WG2627874
Diethyl phthalate	ND		0.0143	50	10/31/2025 18:39	WG2627874
Dimethyl phthalate	ND		0.0130	50	10/31/2025 18:39	WG2627874
Fluoranthene	ND		0.00510	50	10/31/2025 18:39	WG2627874
Fluorene	ND		0.00422	50	10/31/2025 18:39	WG2627874
Hexachloro-1,3-butadiene	ND		0.0100	50	10/31/2025 18:39	WG2627874
Hexachlorobenzene	ND		0.00378	50	10/31/2025 18:39	WG2627874
Hexachlorocyclopentadiene	ND		0.0100	50	10/31/2025 18:39	WG2627874
Hexachloroethane	ND		0.0100	50	10/31/2025 18:39	WG2627874
Indeno(1,2,3-cd)pyrene	ND		0.0140	50	10/31/2025 18:39	WG2627874
Isophorone	ND		0.0100	50	10/31/2025 18:39	WG2627874
Naphthalene	ND		0.0186	50	10/31/2025 18:39	WG2627874
Nitrobenzene	ND		0.0148	50	10/31/2025 18:39	WG2627874
Phenanthrene	ND		0.00560	50	10/31/2025 18:39	WG2627874
Pyrene	ND		0.00535	50	10/31/2025 18:39	WG2627874
n-Nitrosodi-n-propylamine	ND		0.0131	50	10/31/2025 18:39	WG2627874
n-Nitrosodiphenylamine	ND		0.119	50	10/31/2025 18:39	WG2627874
2,2-Oxybis(1-Chloropropane)	ND		0.0105	50	10/31/2025 18:39	WG2627874
(S) Nitrobenzene-d5	*97.8*	J7		*15.0-314*	*10/31/2025 18:39*	WG2627874
(S) 2-Fluorobiphenyl	*31.3*	J7		*22.0-127*	*10/31/2025 18:39*	WG2627874
(S) p-Terphenyl-d14	*39.8*	J7		*29.0-141*	*10/31/2025 18:39*	WG2627874

Sample Narrative:

L1910886-02 WG2627874: Sample produced emulsion during Extraction process. Dilution due to matrix.

Pesticides (GC) by Method EPA 608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
4,4-DDD	ND		0.0000500	1	10/24/2025 20:12	WG2626819
4,4-DDE	ND		0.0000500	1	10/24/2025 20:12	WG2626819
4,4-DDT	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Aldrin	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Beta BHC	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Chlordane	ND		0.000500	1	10/24/2025 20:12	WG2626819
Delta BHC	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Dieldrin	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Endosulfan I	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Endosulfan II	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Endosulfan sulfate	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Endrin	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Endrin aldehyde	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Gamma BHC	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Heptachlor	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Heptachlor epoxide	ND		0.0000500	1	10/24/2025 20:12	WG2626819
Toxaphene	ND		0.000500	1	10/24/2025 20:12	WG2626819
(S) Tetrachloro-m-xylene	*12.1*			*10.0-135*	*10/24/2025 20:12*	WG2626819
(S) Decachlorobiphenyl	*9.05*	J2		*10.0-144*	*10/24/2025 20:12*	WG2626819

Sample Narrative:

L1910886-03 WG2626819: Sample produced emulsion during Extraction process, low surr/spike recoveries due to matrix.

Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000500	2	10/26/2025 10:47	WG2627385
PCB 1221	ND		0.000500	2	10/26/2025 10:47	WG2627385
PCB 1232	ND		0.000500	2	10/26/2025 10:47	WG2627385
PCB 1242	ND		0.000500	2	10/26/2025 10:47	WG2627385
PCB 1248	ND		0.000500	2	10/26/2025 10:47	WG2627385
PCB 1254	ND		0.000500	2	10/26/2025 10:47	WG2627385
PCB 1260	ND		0.000500	2	10/26/2025 10:47	WG2627385
(S) Tetrachloro-m-xylene	*11.2*			*10.0-135*	*10/26/2025 10:47*	WG2627385
(S) Decachlorobiphenyl	*7.47*	J2		*10.0-144*	*10/26/2025 10:47*	WG2627385

Sample Narrative:

L1910886-03 WG2627385: Sample produced emulsion during Extraction process, low surr/spike recoveries due to matrix.

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.0100	10	10/31/2025 17:33	WG2627874
1,2-Dichlorobenzene	ND		0.0100	10	10/31/2025 17:33	WG2627874
1,3-Dichlorobenzene	ND		0.0100	10	10/31/2025 17:33	WG2627874
1,4-Dichlorobenzene	ND		0.0100	10	10/31/2025 17:33	WG2627874
2,4-Dinitrotoluene	ND		0.0100	10	10/31/2025 17:33	WG2627874
2,6-Dinitrotoluene	ND		0.0100	10	10/31/2025 17:33	WG2627874
2-Chloronaphthalene	ND		0.00100	10	10/31/2025 17:33	WG2627874
3,3-Dichlorobenzidine	ND		0.0100	10	10/31/2025 17:33	WG2627874
4-Bromophenyl-phenylether	ND		0.0100	10	10/31/2025 17:33	WG2627874
4-Chlorophenyl-phenylether	ND		0.0100	10	10/31/2025 17:33	WG2627874
Acenaphthene	ND		0.00100	10	10/31/2025 17:33	WG2627874
Acenaphthylene	ND		0.00100	10	10/31/2025 17:33	WG2627874
Anthracene	ND		0.00100	10	10/31/2025 17:33	WG2627874

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Benzo(a)anthracene	ND		0.00199	10	10/31/2025 17:33	WG2627874
Benzo(a)pyrene	ND		0.00100	10	10/31/2025 17:33	WG2627874
Benzo(b)fluoranthene	ND		0.00130	10	10/31/2025 17:33	WG2627874
Benzo(g,h,i)perylene	ND		0.00121	10	10/31/2025 17:33	WG2627874
Benzo(k)fluoranthene	ND		0.00120	10	10/31/2025 17:33	WG2627874
Benzyl alcohol	ND		0.0100	10	10/31/2025 17:33	WG2627874
Benzylbutyl phthalate	ND		0.00765	10	10/31/2025 17:33	WG2627874
Bis(2-Ethylhexyl)phthalate	ND		0.0100	10	10/31/2025 17:33	WG2627874
Bis(2-chlorethoxy)methane	ND		0.0100	10	10/31/2025 17:33	WG2627874
Bis(2-chloroethyl)ether	ND		0.0100	10	10/31/2025 17:33	WG2627874
Chrysene	ND		0.00130	10	10/31/2025 17:33	WG2627874
Di-n-butyl phthalate	ND		0.00453	10	10/31/2025 17:33	WG2627874
Di-n-octyl phthalate	ND		0.00932	10	10/31/2025 17:33	WG2627874
Dibenz(a,h)anthracene	ND		0.00100	10	10/31/2025 17:33	WG2627874
Dibenzofuran	ND		0.0100	10	10/31/2025 17:33	WG2627874
Diethyl phthalate	ND		0.00300	10	10/31/2025 17:33	WG2627874
Dimethyl phthalate	ND		0.00300	10	10/31/2025 17:33	WG2627874
Fluoranthene	ND		0.00102	10	10/31/2025 17:33	WG2627874
Fluorene	ND		0.00100	10	10/31/2025 17:33	WG2627874
Hexachloro-1,3-butadiene	ND		0.0100	10	10/31/2025 17:33	WG2627874
Hexachlorobenzene	ND		0.00100	10	10/31/2025 17:33	WG2627874
Hexachlorocyclopentadiene	ND		0.0100	10	10/31/2025 17:33	WG2627874
Hexachloroethane	ND		0.0100	10	10/31/2025 17:33	WG2627874
Indeno(1,2,3-cd)pyrene	ND		0.00279	10	10/31/2025 17:33	WG2627874
Isophorone	ND		0.0100	10	10/31/2025 17:33	WG2627874
Naphthalene	ND		0.00372	10	10/31/2025 17:33	WG2627874
Nitrobenzene	ND		0.0100	10	10/31/2025 17:33	WG2627874
Phenanthrene	ND		0.00112	10	10/31/2025 17:33	WG2627874
Pyrene	ND		0.00107	10	10/31/2025 17:33	WG2627874
n-Nitrosodi-n-propylamine	ND		0.0100	10	10/31/2025 17:33	WG2627874
n-Nitrosodiphenylamine	ND		0.0237	10	10/31/2025 17:33	WG2627874
2,2-Oxybis(1-Chloropropane)	ND		0.0100	10	10/31/2025 17:33	WG2627874
(S) Nitrobenzene-d5	*56.9*			*15.0-314*	*10/31/2025 17:33*	WG2627874
(S) 2-Fluorobiphenyl	*42.1*			*22.0-127*	*10/31/2025 17:33*	WG2627874
(S) p-Terphenyl-d14	*30.0*			*29.0-141*	*10/31/2025 17:33*	WG2627874

Sample Narrative:

L1910886-03 WG2627874: Dilution due to matrix.

Pesticides (GC) by Method EPA 608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
4,4-DDD	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
4,4-DDE	0.000122		0.0000500	1.01	10/27/2025 22:47	WG2626819
4,4-DDT	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Aldrin	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Beta BHC	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Chlordane	ND		0.000500	1.01	10/27/2025 22:47	WG2626819
Delta BHC	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Dieldrin	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Endosulfan I	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Endosulfan II	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Endosulfan sulfate	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Endrin	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Endrin aldehyde	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Gamma BHC	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Heptachlor	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Heptachlor epoxide	ND		0.0000500	1.01	10/27/2025 22:47	WG2626819
Toxaphene	ND		0.000500	1.01	10/27/2025 22:47	WG2626819
(S) Tetrachloro-m-xylene	*37.9*			*10.0-135*	*10/27/2025 22:47*	WG2626819
(S) Decachlorobiphenyl	*29.0*			*10.0-144*	*10/27/2025 22:47*	WG2626819

Polychlorinated Biphenyls (GC) by Method EPA-608.3

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.000500	2.02	10/26/2025 10:56	WG2627385
PCB 1221	ND		0.000500	2.02	10/26/2025 10:56	WG2627385
PCB 1232	ND		0.000500	2.02	10/26/2025 10:56	WG2627385
PCB 1242	ND		0.000500	2.02	10/26/2025 10:56	WG2627385
PCB 1248	ND		0.000500	2.02	10/26/2025 10:56	WG2627385
PCB 1254	ND		0.000500	2.02	10/26/2025 10:56	WG2627385
PCB 1260	ND		0.000500	2.02	10/26/2025 10:56	WG2627385
(S) Tetrachloro-m-xylene	*41.6*			*10.0-135*	*10/26/2025 10:56*	WG2627385
(S) Decachlorobiphenyl	*17.5*			*10.0-144*	*10/26/2025 10:56*	WG2627385

Sample Narrative:

L1910886-04 WG2627385: Dilution due to sulfur cleanup.

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.0100	5	10/31/2025 16:06	WG2627874
1,2-Dichlorobenzene	ND		0.0100	5	10/31/2025 16:06	WG2627874
1,3-Dichlorobenzene	ND		0.0100	5	10/31/2025 16:06	WG2627874
1,4-Dichlorobenzene	ND		0.0100	5	10/31/2025 16:06	WG2627874
2,4-Dinitrotoluene	ND		0.0100	5	10/31/2025 16:06	WG2627874
2,6-Dinitrotoluene	ND		0.0100	5	10/31/2025 16:06	WG2627874
2-Chloronaphthalene	ND		0.00100	5	10/31/2025 16:06	WG2627874
3,3-Dichlorobenzidine	ND		0.0100	5	10/31/2025 16:06	WG2627874
4-Bromophenyl-phenylether	ND		0.0100	5	10/31/2025 16:06	WG2627874
4-Chlorophenyl-phenylether	ND		0.0100	5	10/31/2025 16:06	WG2627874
Acenaphthene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Acenaphthylene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Anthracene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Benzo(a)anthracene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Benzo(a)pyrene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Benzo(b)fluoranthene	ND		0.00100	5	10/31/2025 16:06	WG2627874

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Benzo(g,h,i)perylene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Benzo(k)fluoranthene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Benzyl alcohol	ND		0.0100	5	10/31/2025 16:06	WG2627874
Benzylbutyl phthalate	ND		0.00383	5	10/31/2025 16:06	WG2627874
Bis(2-Ethylhexyl)phthalate	ND		0.0100	5	10/31/2025 16:06	WG2627874
Bis(2-chlorethoxy)methane	ND		0.0100	5	10/31/2025 16:06	WG2627874
Bis(2-chloroethyl)ether	ND		0.0100	5	10/31/2025 16:06	WG2627874
Chrysene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Di-n-butyl phthalate	ND		0.00300	5	10/31/2025 16:06	WG2627874
Di-n-octyl phthalate	ND		0.00466	5	10/31/2025 16:06	WG2627874
Dibenz(a,h)anthracene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Dibenzofuran	ND		0.0100	5	10/31/2025 16:06	WG2627874
Diethyl phthalate	ND		0.00300	5	10/31/2025 16:06	WG2627874
Dimethyl phthalate	ND		0.00300	5	10/31/2025 16:06	WG2627874
Fluoranthene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Fluorene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Hexachloro-1,3-butadiene	ND		0.0100	5	10/31/2025 16:06	WG2627874
Hexachlorobenzene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Hexachlorocyclopentadiene	ND		0.0100	5	10/31/2025 16:06	WG2627874
Hexachloroethane	ND		0.0100	5	10/31/2025 16:06	WG2627874
Indeno(1,2,3-cd)pyrene	ND		0.00140	5	10/31/2025 16:06	WG2627874
Isophorone	ND		0.0100	5	10/31/2025 16:06	WG2627874
Naphthalene	ND		0.00186	5	10/31/2025 16:06	WG2627874
Nitrobenzene	ND		0.0100	5	10/31/2025 16:06	WG2627874
Phenanthrene	ND		0.00100	5	10/31/2025 16:06	WG2627874
Pyrene	ND		0.00100	5	10/31/2025 16:06	WG2627874
n-Nitrosodi-n-propylamine	ND		0.0100	5	10/31/2025 16:06	WG2627874
n-Nitrosodiphenylamine	ND		0.0119	5	10/31/2025 16:06	WG2627874
2,2-Oxybis(1-Chloropropane)	ND		0.0100	5	10/31/2025 16:06	WG2627874
(S) Nitrobenzene-d5	*40.0*			*15.0-314*	*10/31/2025 16:06*	WG2627874
(S) 2-Fluorobiphenyl	*39.8*			*22.0-127*	*10/31/2025 16:06*	WG2627874
(S) p-Terphenyl-d14	*43.2*			*29.0-141*	*10/31/2025 16:06*	WG2627874

Sample Narrative:

L1910886-04 WG2627874: Dilution due to matrix.

Method Blank (MB)

(MB) R4291807-1 10/24/25 16:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
4,4-DDD	ND		0.0000170	0.0000500
4,4-DDE	ND		0.0000164	0.0000500
4,4-DDT	ND		0.0000177	0.0000500
Aldrin	ND		0.00000813	0.0000500
Beta BHC	ND		0.0000184	0.0000500
Chlordane	ND		0.0000977	0.000500
Delta BHC	ND		0.0000197	0.0000500
Dieldrin	ND		0.00000751	0.0000500
Endosulfan I	ND		0.0000179	0.0000500
Endosulfan II	ND		0.0000176	0.0000500
Endosulfan sulfate	ND		0.0000196	0.0000500
Endrin	ND		0.0000189	0.0000500
Endrin aldehyde	ND		0.0000142	0.0000500
Gamma BHC	ND		0.0000176	0.0000500
Heptachlor	ND		0.0000108	0.0000500
Heptachlor epoxide	ND		0.0000175	0.0000500
Toxaphene	ND		0.000168	0.000500
(S) Tetrachloro-m-xylene	*72.9*			*10.0-135*
(S) Decachlorobiphenyl	*16.7*			*10.0-144*

Laboratory Control Sample (LCS)

(LCS) R4291807-3 10/24/25 17:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4,4-DDD	0.00100	0.000943	94.3	31.0-141	
4,4-DDE	0.00100	0.000787	78.7	30.0-145	
4,4-DDT	0.00100	0.000833	83.3	25.0-160	
Aldrin	0.00100	0.000798	79.8	42.0-140	
Beta BHC	0.00100	0.00100	100	17.0-147	
Delta BHC	0.00100	0.000950	95.0	19.0-140	
Dieldrin	0.00100	0.000995	99.5	36.0-146	
Endosulfan I	0.00100	0.000987	98.7	45.0-153	
Endosulfan II	0.00100	0.000997	99.7	1.00-202	
Endosulfan sulfate	0.00100	0.000992	99.2	26.0-144	
Endrin	0.00100	0.000967	96.7	30.0-147	
Endrin aldehyde	0.00100	0.000877	87.7	56.0-128	
Gamma BHC	0.00100	0.00101	101	32.0-140	
Heptachlor	0.00100	0.000945	94.5	34.0-140	

Laboratory Control Sample (LCS)

(LCS) R4291807-3 10/24/25 17:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Heptachlor epoxide	0.00100	0.000971	97.1	37.0-142	
(S) Tetrachloro-m-xylene			*68.5*	*10.0-135*	
(S) Decachlorobiphenyl			*18.3*	*10.0-144*	

Method Blank (MB)

(MB) R4292310-1 10/26/25 10:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
PCB 1016	ND		0.000200	0.00100
PCB 1221	ND		0.000146	0.00100
PCB 1232	ND		0.0000840	0.00100
PCB 1242	ND		0.0000940	0.00100
PCB 1248	ND		0.000172	0.00100
PCB 1254	ND		0.0000940	0.00100
PCB 1260	ND		0.000240	0.00100
(S) Tetrachloro-m-xylene	*63.2*			*10.0-135*
(S) Decachlorobiphenyl	*13.2*			*10.0-144*

Laboratory Control Sample (LCS)

(LCS) R4292310-2 10/26/25 10:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1016	0.00250	0.00191	76.4	50.0-140	
PCB 1260	0.00250	0.00173	69.2	8.00-140	
(S) Tetrachloro-m-xylene			*73.5*	*10.0-135*	
(S) Decachlorobiphenyl			*31.0*	*10.0-144*	

Method Blank (MB)

(MB) R4296982-2 11/05/25 20:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,2,4-Trichlorobenzene	ND		0.0000698	0.0100
1,2-Dichlorobenzene	ND		0.0000713	0.0100
1,3-Dichlorobenzene	ND		0.000132	0.0100
1,4-Dichlorobenzene	ND		0.0000942	0.0100
2,4-Dinitrotoluene	ND		0.0000983	0.0100
2,6-Dinitrotoluene	ND		0.000250	0.0100
2-Chloronaphthalene	ND		0.0000648	0.00100
3,3-Dichlorobenzidine	ND		0.000212	0.0100
4-Bromophenyl-phenylether	ND		0.0000877	0.0100
4-Chlorophenyl-phenylether	ND		0.0000926	0.0100
Acenaphthene	ND		0.0000886	0.00100
Acenaphthylene	ND		0.0000921	0.00100
Anthracene	ND		0.0000804	0.00100
Benzo(a)anthracene	ND		0.000199	0.00100
Benzo(a)pyrene	ND		0.0000381	0.00100
Benzo(b)fluoranthene	ND		0.000130	0.00100
Benzo(g,h,i)perylene	ND		0.000121	0.00100
Benzo(k)fluoranthene	ND		0.000120	0.00100
Benzyl alcohol	ND		0.000563	0.0100
Benzylbutyl phthalate	ND		0.000765	0.00300
Bis(2-Ethylhexyl)phthalate	ND		0.000895	0.00300
Bis(2-chlorethoxy)methane	ND		0.000116	0.0100
Bis(2-chloroethyl)ether	ND		0.000137	0.0100
Chrysene	ND		0.000130	0.00100
Di-n-butyl phthalate	ND		0.000453	0.00300
Di-n-octyl phthalate	ND		0.000932	0.00300
Dibenz(a,h)anthracene	ND		0.0000644	0.00100
Dibenzofuran	ND		0.0000967	0.0100
Diethyl phthalate	ND		0.000287	0.00300
Dimethyl phthalate	ND		0.000260	0.00300
Fluoranthene	ND		0.000102	0.00100
Fluorene	ND		0.0000844	0.00100
Hexachloro-1,3-butadiene	ND		0.0000968	0.0100
Hexachlorobenzene	ND		0.0000755	0.00100
Hexachlorocyclopentadiene	ND		0.0000598	0.0100
Hexachloroethane	ND		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	ND		0.000279	0.00100
Isophorone	ND		0.000143	0.0100
Naphthalene	ND		0.000372	0.00100
Nitrobenzene	ND		0.000297	0.0100

Method Blank (MB)

(MB) R4296982-2 11/05/25 20:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phenanthrene	ND		0.000112	0.00100
Pyrene	ND		0.000107	0.00100
n-Nitrosodi-n-propylamine	ND		0.000261	0.0100
n-Nitrosodiphenylamine	ND		0.00237	0.0100
2,2-Oxybis(1-Chloropropane)	ND		0.000210	0.0100
(S) Nitrobenzene-d5	*51.4*			*15.0-314*
(S) 2-Fluorobiphenyl	*58.0*			*22.0-127*
(S) p-Terphenyl-d14	*61.9*			*29.0-141*

Laboratory Control Sample (LCS)

(LCS) R4296982-1 11/05/25 20:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4-Trichlorobenzene	0.0500	0.0230	46.0	44.0-142	
1,2-Dichlorobenzene	0.0500	0.0232	46.4	27.0-120	
1,3-Dichlorobenzene	0.0500	0.0225	45.0	26.0-120	
1,4-Dichlorobenzene	0.0500	0.0228	45.6	26.0-120	
2,4-Dinitrotoluene	0.0500	0.0302	60.4	39.0-139	
2,6-Dinitrotoluene	0.0500	0.0282	56.4	50.0-158	
2-Chloronaphthalene	0.0500	0.0254	50.8	60.0-120	J4
3,3-Dichlorobenzidine	0.100	0.0679	67.9	1.00-262	
4-Bromophenyl-phenylether	0.0500	0.0283	56.6	53.0-127	
4-Chlorophenyl-phenylether	0.0500	0.0289	57.8	25.0-158	
Acenaphthene	0.0500	0.0266	53.2	47.0-145	
Acenaphthylene	0.0500	0.0279	55.8	33.0-145	
Anthracene	0.0500	0.0289	57.8	27.0-133	
Benzo(a)anthracene	0.0500	0.0272	54.4	33.0-143	
Benzo(a)pyrene	0.0500	0.0291	58.2	17.0-163	
Benzo(b)fluoranthene	0.0500	0.0269	53.8	24.0-159	
Benzo(g,h,i)perylene	0.0500	0.0242	48.4	1.00-219	
Benzo(k)fluoranthene	0.0500	0.0274	54.8	11.0-162	
Benzyl alcohol	0.0500	0.0202	40.4	20.0-120	
Benzylbutyl phthalate	0.0500	0.0240	48.0	1.00-152	
Bis(2-Ethylhexyl)phthalate	0.0500	0.0237	47.4	8.00-158	
Bis(2-chlorethoxy)methane	0.0500	0.0234	46.8	1.00-219	
Bis(2-chloroethyl)ether	0.0500	0.0245	49.0	33.0-185	
Chrysene	0.0500	0.0279	55.8	17.0-168	
Di-n-butyl phthalate	0.0500	0.0308	61.6	1.00-120	

Laboratory Control Sample (LCS)

(LCS) R4296982-1 11/05/25 20:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Di-n-octyl phthalate	0.0500	0.0249	49.8	4.00-146	
Dibenz(a,h)anthracene	0.0500	0.0255	51.0	1.00-227	
Dibenzofuran	0.0500	0.0289	57.8	42.0-120	
Diethyl phthalate	0.0500	0.0328	65.6	1.00-120	
Dimethyl phthalate	0.0500	0.0309	61.8	1.00-120	
Fluoranthene	0.0500	0.0342	68.4	26.0-137	
Fluorene	0.0500	0.0306	61.2	59.0-121	
Hexachloro-1,3-butadiene	0.0500	0.0226	45.2	24.0-120	
Hexachlorobenzene	0.0500	0.0282	56.4	1.00-152	
Hexachlorocyclopentadiene	0.0500	0.0122	24.4	10.0-120	
Hexachloroethane	0.0500	0.0204	40.8	40.0-120	
Indeno(1,2,3-cd)pyrene	0.0500	0.0223	44.6	1.00-171	
Isophorone	0.0500	0.0236	47.2	21.0-196	
Naphthalene	0.0500	0.0241	48.2	21.0-133	
Nitrobenzene	0.0500	0.0214	42.8	35.0-180	
Phenanthrene	0.0500	0.0283	56.6	54.0-120	
Pyrene	0.0500	0.0255	51.0	52.0-120	J4
n-Nitrosodi-n-propylamine	0.0500	0.0267	53.4	1.00-230	
n-Nitrosodiphenylamine	0.0500	0.0264	52.8	44.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0247	49.4	36.0-166	
(S) Nitrobenzene-d5			*43.7*	*15.0-314*	
(S) 2-Fluorobiphenyl			*53.8*	*22.0-127*	
(S) p-Terphenyl-d14			*53.7*	*29.0-141*	

L1910650-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910650-01 10/31/25 11:54 • (MS) R4296957-1 10/31/25 12:15 • (MSD) R4296957-2 10/31/25 12:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,4-Trichlorobenzene	0.0500	ND	0.0278	0.0253	55.6	50.6	1	44.0-142			9.42	50
1,2-Dichlorobenzene	0.0500	ND	0.0249	0.0214	49.8	42.8	1	14.0-125			15.1	24
1,3-Dichlorobenzene	0.0500	ND	0.0243	0.0209	48.6	41.8	1	12.0-123			15.0	22
1,4-Dichlorobenzene	0.0500	ND	0.0253	0.0216	50.6	43.2	1	12.0-125			15.8	23
2,4-Dinitrotoluene	0.0500	ND	0.0374	0.0333	74.8	66.6	1	39.0-139			11.6	42
2,6-Dinitrotoluene	0.0500	ND	0.0351	0.0309	70.2	61.8	1	50.0-158			12.7	48
2-Chloronaphthalene	0.0500	ND	0.0296	0.0264	59.2	52.8	1	60.0-120	J6	J6	11.4	24
3,3-Dichlorobenzidine	0.100	ND	0.0705	0.0609	70.5	60.9	1	1.00-262			14.6	108
4-Bromophenyl-phenylether	0.0500	ND	0.0392	0.0353	78.4	70.6	1	53.0-127			10.5	43
4-Chlorophenyl-phenylether	0.0500	ND	0.0374	0.0333	74.8	66.6	1	25.0-158			11.6	61

L1910650-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910650-01 10/31/25 11:54 • (MS) R4296957-1 10/31/25 12:15 • (MSD) R4296957-2 10/31/25 12:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0500	ND	0.0306	0.0273	61.2	54.6	1	47.0-145			11.4	48
Acenaphthylene	0.0500	ND	0.0354	0.0316	70.8	63.2	1	33.0-145			11.3	74
Anthracene	0.0500	ND	0.0313	0.0281	62.6	56.2	1	27.0-133			10.8	66
Benzo(a)anthracene	0.0500	ND	0.0327	0.0294	65.4	58.8	1	33.0-143			10.6	53
Benzo(a)pyrene	0.0500	ND	0.0309	0.0279	61.8	55.8	1	17.0-163			10.2	72
Benzo(b)fluoranthene	0.0500	ND	0.0305	0.0275	61.0	55.0	1	24.0-159			10.3	71
Benzo(g,h,i)perylene	0.0500	ND	0.0276	0.0245	55.2	49.0	1	1.00-219			11.9	97
Benzo(k)fluoranthene	0.0500	ND	0.0308	0.0276	61.6	55.2	1	11.0-162			11.0	63
Benzyl alcohol	0.0500	ND	0.0216	0.0187	43.2	37.4	1	17.0-120			14.4	40
Benzylbutyl phthalate	0.0500	ND	0.0323	0.0291	64.6	58.2	1	1.00-152			10.4	60
Bis(2-Ethylhexyl)phthalate	0.0500	ND	0.0268	0.0227	53.6	45.4	1	8.00-158			16.6	82
Bis(2-chlorethoxy)methane	0.0500	ND	0.0251	0.0229	50.2	45.8	1	33.0-184			9.17	54
Bis(2-chloroethyl)ether	0.0500	ND	0.0226	0.0199	45.2	39.8	1	12.0-158			12.7	108
Chrysene	0.0500	ND	0.0321	0.0285	64.2	57.0	1	17.0-168			11.9	87
Di-n-butyl phthalate	0.0500	ND	0.0349	0.0316	69.8	63.2	1	1.00-120			9.92	47
Di-n-octyl phthalate	0.0500	ND	0.0258	0.0218	51.6	43.6	1	4.00-146			16.8	69
Dibenz(a,h)anthracene	0.0500	ND	0.0287	0.0251	57.4	50.2	1	1.00-227			13.4	126
Dibenzofuran	0.0500	ND	0.0344	0.0303	68.8	60.6	1	17.0-150			12.7	27
Diethyl phthalate	0.0500	ND	0.0351	0.0313	70.2	62.6	1	1.00-120			11.4	100
Dimethyl phthalate	0.0500	ND	0.0348	0.0309	69.6	61.8	1	1.00-120			11.9	183
Fluoranthene	0.0500	ND	0.0357	0.0330	71.4	66.0	1	26.0-137			7.86	66
Fluorene	0.0500	ND	0.0335	0.0295	67.0	59.0	1	59.0-121			12.7	38
Hexachloro-1,3-butadiene	0.0500	ND	0.0276	0.0251	55.2	50.2	1	24.0-120			9.49	62
Hexachlorobenzene	0.0500	ND	0.0374	0.0331	74.8	66.2	1	1.00-152			12.2	55
Hexachlorocyclopentadiene	0.0500	ND	0.0259	0.0239	51.8	47.8	1	10.0-146			8.03	34
Hexachloroethane	0.0500	ND	0.0242	0.0206	48.4	41.2	1	40.0-120			16.1	52
Indeno(1,2,3-cd)pyrene	0.0500	ND	0.0266	0.0232	53.2	46.4	1	1.00-171			13.7	99
Isophorone	0.0500	ND	0.0257	0.0238	51.4	47.6	1	21.0-196			7.68	93
Naphthalene	0.0500	ND	0.0244	0.0224	48.8	44.8	1	21.0-133			8.55	65
Nitrobenzene	0.0500	ND	0.0233	0.0210	46.6	42.0	1	35.0-180			10.4	62
Phenanthrene	0.0500	ND	0.0323	0.0288	64.6	57.6	1	54.0-120			11.5	39
Pyrene	0.0500	ND	0.0312	0.0278	62.4	55.6	1	52.0-120			11.5	49
n-Nitrosodi-n-propylamine	0.0500	ND	0.0278	0.0245	55.6	49.0	1	1.00-230			12.6	87
n-Nitrosodiphenylamine	0.0500	ND	0.0251	0.0212	50.2	42.4	1	16.0-160			16.8	28
2,2-Oxybis(1-Chloropropane)	0.0500	ND	0.0256	0.0229	51.2	45.8	1	36.0-166			11.1	76
(S) Nitrobenzene-d5					*48.9*	*46.7*		*15.0-314*				
(S) 2-Fluorobiphenyl					*63.3*	*56.8*		*22.0-127*				
(S) p-Terphenyl-d14					*63.8*	*54.5*		*29.0-141*				

Method Blank (MB)

(MB) R4294825-2 10/31/25 11:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,2,4-Trichlorobenzene	ND		0.0000698	0.0100
1,2-Dichlorobenzene	ND		0.0000713	0.0100
1,3-Dichlorobenzene	ND		0.000132	0.0100
1,4-Dichlorobenzene	ND		0.0000942	0.0100
2,4-Dinitrotoluene	ND		0.0000983	0.0100
2,6-Dinitrotoluene	ND		0.000250	0.0100
2-Chloronaphthalene	ND		0.0000648	0.00100
3,3-Dichlorobenzidine	ND		0.000212	0.0100
4-Bromophenyl-phenylether	ND		0.0000877	0.0100
4-Chlorophenyl-phenylether	ND		0.0000926	0.0100
Acenaphthene	ND		0.0000886	0.00100
Acenaphthylene	ND		0.0000921	0.00100
Anthracene	ND		0.0000804	0.00100
Benzo(a)anthracene	ND		0.000199	0.00100
Benzo(a)pyrene	ND		0.0000381	0.00100
Benzo(b)fluoranthene	ND		0.000130	0.00100
Benzo(g,h,i)perylene	ND		0.000121	0.00100
Benzo(k)fluoranthene	ND		0.000120	0.00100
Benzyl alcohol	ND		0.000563	0.0100
Benzylbutyl phthalate	ND		0.000765	0.00300
Bis(2-Ethylhexyl)phthalate	ND		0.000895	0.00300
Bis(2-chlorethoxy)methane	ND		0.000116	0.0100
Bis(2-chloroethyl)ether	ND		0.000137	0.0100
Chrysene	ND		0.000130	0.00100
Di-n-butyl phthalate	ND		0.000453	0.00300
Di-n-octyl phthalate	ND		0.000932	0.00300
Dibenz(a,h)anthracene	ND		0.0000644	0.00100
Dibenzofuran	ND		0.0000967	0.0100
Diethyl phthalate	ND		0.000287	0.00300
Dimethyl phthalate	ND		0.000260	0.00300
Fluoranthene	ND		0.000102	0.00100
Fluorene	ND		0.0000844	0.00100
Hexachloro-1,3-butadiene	ND		0.0000968	0.0100
Hexachlorobenzene	ND		0.0000755	0.00100
Hexachlorocyclopentadiene	ND		0.0000598	0.0100
Hexachloroethane	ND		0.000127	0.0100
Indeno(1,2,3-cd)pyrene	ND		0.000279	0.00100
Isophorone	ND		0.000143	0.0100
Naphthalene	ND		0.000372	0.00100
Nitrobenzene	ND		0.000297	0.0100

Method Blank (MB)

(MB) R4294825-2 10/31/25 11:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Phenanthrene	ND		0.000112	0.00100
Pyrene	ND		0.000107	0.00100
n-Nitrosodi-n-propylamine	ND		0.000261	0.0100
n-Nitrosodiphenylamine	ND		0.00237	0.0100
2,2-Oxybis(1-Chloropropane)	ND		0.000210	0.0100
(S) Nitrobenzene-d5	*107*			*15.0-314*
(S) 2-Fluorobiphenyl	*68.9*			*22.0-127*
(S) p-Terphenyl-d14	*87.0*			*29.0-141*

Laboratory Control Sample (LCS)

(LCS) R4294825-1 10/31/25 11:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4-Trichlorobenzene	0.0500	0.0339	67.8	44.0-142	
1,2-Dichlorobenzene	0.0500	0.0293	58.6	27.0-120	
1,3-Dichlorobenzene	0.0500	0.0272	54.4	26.0-120	
1,4-Dichlorobenzene	0.0500	0.0284	56.8	26.0-120	
2,4-Dinitrotoluene	0.0500	0.0508	102	39.0-139	
2,6-Dinitrotoluene	0.0500	0.0474	94.8	50.0-158	
2-Chloronaphthalene	0.0500	0.0402	80.4	60.0-120	
3,3-Dichlorobenzidine	0.100	0.0872	87.2	1.00-262	
4-Bromophenyl-phenylether	0.0500	0.0463	92.6	53.0-127	
4-Chlorophenyl-phenylether	0.0500	0.0481	96.2	25.0-158	
Acenaphthene	0.0500	0.0437	87.4	47.0-145	
Acenaphthylene	0.0500	0.0394	78.8	33.0-145	
Anthracene	0.0500	0.0452	90.4	27.0-133	
Benzo(a)anthracene	0.0500	0.0473	94.6	33.0-143	
Benzo(a)pyrene	0.0500	0.0469	93.8	17.0-163	
Benzo(b)fluoranthene	0.0500	0.0469	93.8	24.0-159	
Benzo(g,h,i)perylene	0.0500	0.0439	87.8	1.00-219	
Benzo(k)fluoranthene	0.0500	0.0462	92.4	11.0-162	
Benzyl alcohol	0.0500	0.0360	72.0	20.0-120	
Benzylbutyl phthalate	0.0500	0.0372	74.4	1.00-152	
Bis(2-Ethylhexyl)phthalate	0.0500	0.0362	72.4	8.00-158	
Bis(2-chlorethoxy)methane	0.0500	0.0485	97.0	1.00-219	
Bis(2-chloroethyl)ether	0.0500	0.0371	74.2	33.0-185	
Chrysene	0.0500	0.0441	88.2	17.0-168	
Di-n-butyl phthalate	0.0500	0.0453	90.6	1.00-120	

Laboratory Control Sample (LCS)

(LCS) R4294825-1 10/31/25 11:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Di-n-octyl phthalate	0.0500	0.0287	57.4	4.00-146	
Dibenz(a,h)anthracene	0.0500	0.0452	90.4	1.00-227	
Dibenzofuran	0.0500	0.0446	89.2	42.0-120	
Diethyl phthalate	0.0500	0.0461	92.2	1.00-120	
Dimethyl phthalate	0.0500	0.0460	92.0	1.00-120	
Fluoranthene	0.0500	0.0510	102	26.0-137	
Fluorene	0.0500	0.0471	94.2	59.0-121	
Hexachloro-1,3-butadiene	0.0500	0.0302	60.4	24.0-120	
Hexachlorobenzene	0.0500	0.0458	91.6	1.00-152	
Hexachlorocyclopentadiene	0.0500	0.0244	48.8	10.0-120	
Hexachloroethane	0.0500	0.0365	73.0	40.0-120	
Indeno(1,2,3-cd)pyrene	0.0500	0.0410	82.0	1.00-171	
Isophorone	0.0500	0.0482	96.4	21.0-196	
Naphthalene	0.0500	0.0301	60.2	21.0-133	
Nitrobenzene	0.0500	0.0357	71.4	35.0-180	
Phenanthrene	0.0500	0.0436	87.2	54.0-120	
Pyrene	0.0500	0.0381	76.2	52.0-120	
n-Nitrosodi-n-propylamine	0.0500	0.0507	101	1.00-230	
n-Nitrosodiphenylamine	0.0500	0.0405	81.0	44.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0439	87.8	36.0-166	
(S) Nitrobenzene-d5			*70.8*	*15.0-314*	
(S) 2-Fluorobiphenyl			*76.9*	*22.0-127*	
(S) p-Terphenyl-d14			*71.0*	*29.0-141*	

L1911068-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1911068-01 10/31/25 13:14 • (MS) R4294825-3 10/31/25 13:36 • (MSD) R4294825-4 10/31/25 13:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,4-Trichlorobenzene	0.0500	ND	0.0324	0.0258	64.8	51.6	1	44.0-142			22.7	50
1,2-Dichlorobenzene	0.0500	ND	0.0234	0.0202	46.8	40.4	1	14.0-125			14.7	24
1,3-Dichlorobenzene	0.0500	ND	0.0280	0.0206	56.0	41.2	1	12.0-123		J3	30.5	22
1,4-Dichlorobenzene	0.0500	ND	0.0251	0.0205	50.2	41.0	1	12.0-125			20.2	23
2,4-Dinitrotoluene	0.0500	ND	0.0492	0.0464	98.4	92.8	1	39.0-139			5.86	42
2,6-Dinitrotoluene	0.0500	ND	0.0453	0.0414	90.6	82.8	1	50.0-158			9.00	48
2-Chloronaphthalene	0.0500	ND	0.0395	0.0356	79.0	71.2	1	60.0-120			10.4	24
3,3-Dichlorobenzidine	0.100	ND	0.0314	ND	31.4	0.000	1	1.00-262		J3 J6	200	108
4-Bromophenyl-phenylether	0.0500	ND	0.0413	0.0351	82.6	70.2	1	53.0-127			16.2	43
4-Chlorophenyl-phenylether	0.0500	ND	0.0452	0.0345	90.4	69.0	1	25.0-158			26.9	61

L1911068-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1911068-01 10/31/25 13:14 • (MS) R4294825-3 10/31/25 13:36 • (MSD) R4294825-4 10/31/25 13:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0500	ND	0.0413	0.0332	82.6	66.4	1	47.0-145			21.7	48
Acenaphthylene	0.0500	ND	0.0382	0.0305	76.4	61.0	1	33.0-145			22.4	74
Anthracene	0.0500	ND	0.0424	0.0333	84.8	66.6	1	27.0-133			24.0	66
Benzo(a)anthracene	0.0500	ND	0.0362	0.0260	72.4	52.0	1	33.0-143			32.8	53
Benzo(a)pyrene	0.0500	ND	0.0318	0.0222	63.6	44.4	1	17.0-163			35.6	72
Benzo(b)fluoranthene	0.0500	ND	0.0314	0.0219	62.8	43.8	1	24.0-159			35.6	71
Benzo(g,h,i)perylene	0.0500	ND	0.0284	0.0200	56.8	40.0	1	1.00-219			34.7	97
Benzo(k)fluoranthene	0.0500	ND	0.0309	0.0221	61.8	44.2	1	11.0-162			33.2	63
Benzyl alcohol	0.0500	ND	0.0361	0.0304	72.2	60.8	1	17.0-120			17.1	40
Benzylbutyl phthalate	0.0500	ND	0.0391	0.0331	78.2	66.2	1	1.00-152			16.6	60
Bis(2-Ethylhexyl)phthalate	0.0500	ND	0.0231	0.0160	46.2	32.0	1	8.00-158			36.3	82
Bis(2-chlorethoxy)methane	0.0500	ND	0.0370	0.0316	74.0	63.2	1	33.0-184			15.7	54
Bis(2-chloroethyl)ether	0.0500	ND	0.0423	0.0271	84.6	54.2	1	12.0-158			43.8	108
Chrysene	0.0500	ND	0.0325	0.0231	65.0	46.2	1	17.0-168			33.8	87
Di-n-butyl phthalate	0.0500	ND	0.0429	0.0341	85.8	68.2	1	1.00-120			22.9	47
Di-n-octyl phthalate	0.0500	ND	0.0227	0.0166	45.4	33.2	1	4.00-146			31.0	69
Dibenz(a,h)anthracene	0.0500	ND	0.0271	0.0191	54.2	38.2	1	1.00-227			34.6	126
Dibenzofuran	0.0500	ND	0.0422	0.0340	84.4	68.0	1	17.0-150			21.5	27
Diethyl phthalate	0.0500	ND	0.0464	0.0422	92.8	84.4	1	1.00-120			9.48	100
Dimethyl phthalate	0.0500	ND	0.0452	0.0408	90.4	81.6	1	1.00-120			10.2	183
Fluoranthene	0.0500	ND	0.0421	0.0333	84.2	66.6	1	26.0-137			23.3	66
Fluorene	0.0500	ND	0.0435	0.0362	87.0	72.4	1	59.0-121			18.3	38
Hexachloro-1,3-butadiene	0.0500	ND	0.0317	0.0238	63.4	47.6	1	24.0-120			28.5	62
Hexachlorobenzene	0.0500	ND	0.0346	0.0274	69.2	54.8	1	1.00-152			23.2	55
Hexachlorocyclopentadiene	0.0500	ND	0.0230	0.0175	46.0	35.0	1	10.0-146			27.2	34
Hexachloroethane	0.0500	ND	0.0232	0.0213	46.4	42.6	1	40.0-120			8.54	52
Indeno(1,2,3-cd)pyrene	0.0500	ND	0.0270	0.0189	54.0	37.8	1	1.00-171			35.3	99
Isophorone	0.0500	ND	0.0375	0.0348	75.0	69.6	1	21.0-196			7.47	93
Naphthalene	0.0500	ND	0.0312	0.0258	62.4	51.6	1	21.0-133			18.9	65
Nitrobenzene	0.0500	ND	0.0332	0.0289	66.4	57.8	1	35.0-180			13.8	62
Phenanthrene	0.0500	ND	0.0411	0.0338	82.2	67.6	1	54.0-120			19.5	39
Pyrene	0.0500	ND	0.0462	0.0346	92.4	69.2	1	52.0-120			28.7	49
n-Nitrosodi-n-propylamine	0.0500	ND	0.0329	0.0316	65.8	63.2	1	1.00-230			4.03	87
n-Nitrosodiphenylamine	0.0500	ND	0.0332	0.0375	66.4	75.0	1	16.0-160			12.2	28
2,2-Oxybis(1-Chloropropane)	0.0500	ND	0.0287	0.0263	57.4	52.6	1	36.0-166			8.73	76
(S) Nitrobenzene-d5					*68.3*	*56.4*		*15.0-314*				
(S) 2-Fluorobiphenyl					*70.7*	*67.2*		*22.0-127*				
(S) p-Terphenyl-d14					*68.1*	*55.7*		*29.0-141*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Semi-Annual WWTP Leachate List 2

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
500

Lab Project #
WMCENIA-00009

Collected by (print):
Kenneth Smith

Site/Facility ID #
IA02

P.O. #
14491265

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	608.3 100ml Amb-NoPres	625.1BN 100ml Amb-NaTio								Remarks	Sample # (lab only)
Leachate Pond #1	G	WW		10/22/25	1120	4	X	X									-01
Leachate Pond #2	G	WW		10/22/25	1110	4	X	X									-02
Leachate Pond #4	G	WW		10/22/25	~~1025~~ 1033	4	X	X									-03
Leachate Pond #3	G	WW		10/22/25	~~1035~~ 1023	4	X	X									-04

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1910886

I020

Acctnum: **WMCENIA**
Template: **T237539**
Prelogin: **P1178281**
PM: **3564 - Chad A Upchurch**
PB: 9/25/25 mV
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7919 5609 5004

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	10/22/25	1630	FEDEX
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / (No)
HCL / MeoH
TBR

Temp: °C Bottles Received: 12

If preservation required by Login: Date/Time

TLA 0.8 0 0 0 0 8

Date: 10/23/25 Time: 0830

Hold:

Condition: NCF / (OK)

ANALYTICAL REPORT

October 31, 2025

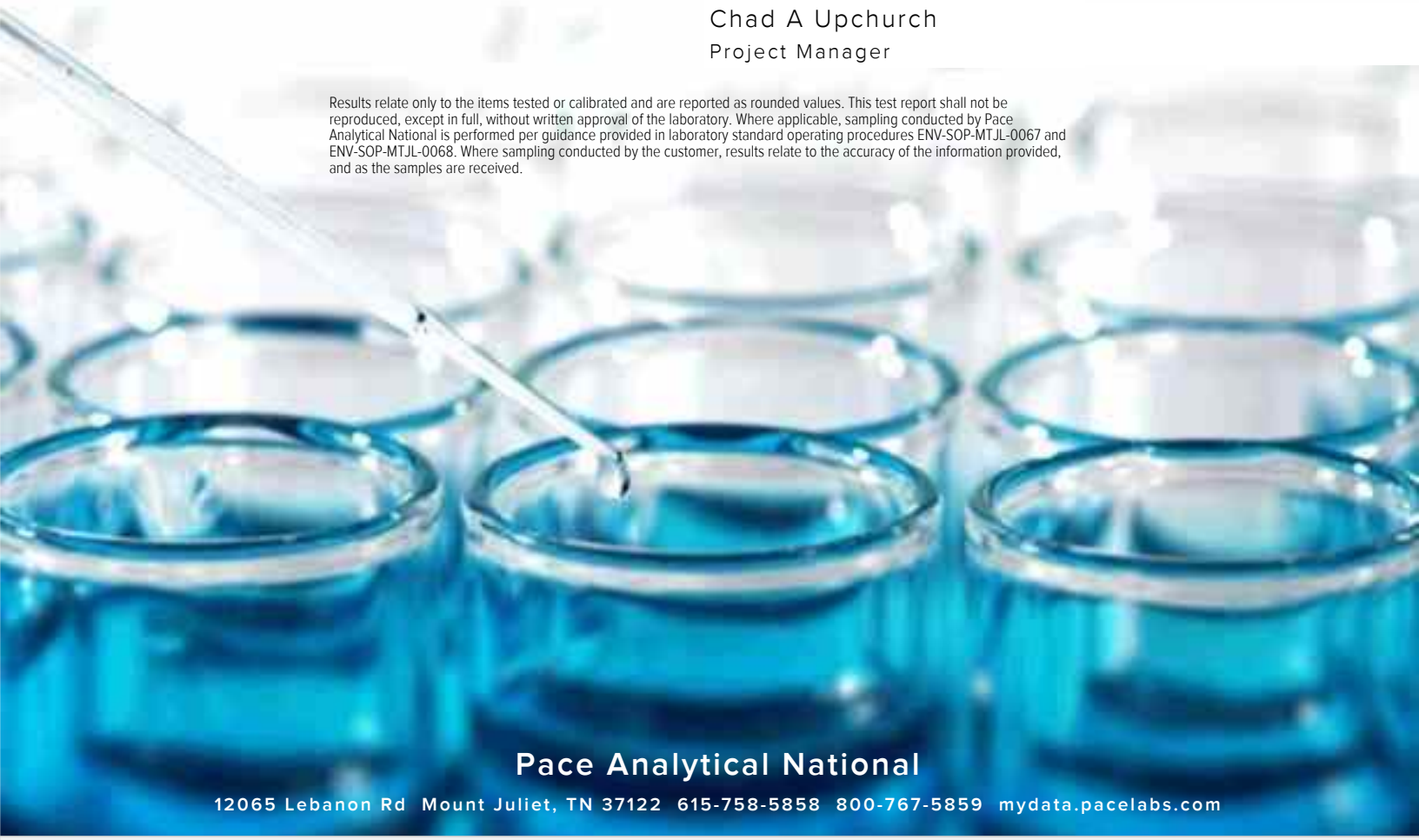
Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1910849
Samples Received:	10/23/2025
Project Number:	500
Description:	Annual Leachate Selected Parms (concurrent with Annual GW)
Site:	IA02
Report To:	Aaron Rebmann
	21265 430th Street
	Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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LEACHATE POND 1 L1910849-01

Collected by: Kenneth Smith | Collected date/time: 10/22/25 11:20 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627292	1	10/25/25 00:21	10/27/25 14:06	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2627350	1	10/27/25 08:40	10/27/25 09:56	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2626848	1	10/24/25 12:11	10/24/25 12:11	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2628067	400	10/26/25 23:13	10/26/25 23:13	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	5	10/27/25 23:11	10/27/25 23:11	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	50	10/27/25 23:24	10/27/25 23:24	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627081	1	10/25/25 14:44	10/26/25 23:09	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627081	2	10/25/25 14:44	10/27/25 00:13	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2628405	1	10/28/25 08:17	10/28/25 12:51	BAG	Mt. Juliet, TN

LEACHATE POND 2 L1910849-02

Collected by: Kenneth Smith | Collected date/time: 10/22/25 11:10 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627292	1	10/25/25 00:21	10/27/25 14:06	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2627349	1	10/27/25 10:15	10/27/25 11:10	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2626873	1	10/24/25 16:01	10/24/25 16:01	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2628067	20	10/26/25 23:14	10/26/25 23:14	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	5	10/27/25 23:36	10/27/25 23:36	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	50	10/27/25 23:49	10/27/25 23:49	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627081	1	10/25/25 14:44	10/26/25 23:11	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627081	2	10/25/25 14:44	10/27/25 00:15	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2628405	1	10/28/25 08:17	10/28/25 12:53	BAG	Mt. Juliet, TN

LEACHATE POND 3 L1910849-03

Collected by: Kenneth Smith | Collected date/time: 10/22/25 10:25 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627292	1	10/25/25 00:21	10/27/25 14:06	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2629518	1	10/29/25 07:46	10/29/25 09:42	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2626873	1	10/24/25 16:06	10/24/25 16:06	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2628067	5	10/26/25 22:42	10/26/25 22:42	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	5	10/28/25 00:02	10/28/25 00:02	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	50	10/28/25 00:14	10/28/25 00:14	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627081	1	10/25/25 14:44	10/26/25 23:12	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627081	2	10/25/25 14:44	10/27/25 00:16	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2628405	1	10/28/25 08:17	10/28/25 12:44	BAG	Mt. Juliet, TN

LEACHATE POND 4 L1910849-04

Collected by: Kenneth Smith | Collected date/time: 10/22/25 10:35 | Received date/time: 10/23/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2627292	1	10/25/25 00:21	10/27/25 14:06	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2627349	1	10/27/25 10:15	10/27/25 11:10	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2626873	1	10/24/25 16:12	10/24/25 16:12	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2628067	500	10/26/25 23:16	10/26/25 23:16	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	5	10/28/25 00:52	10/28/25 00:52	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2626884	50	10/28/25 01:05	10/28/25 01:05	GEB	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627081	1	10/25/25 14:44	10/26/25 23:14	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2627081	5	10/25/25 14:44	10/27/25 00:18	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2628405	1	10/28/25 08:17	10/28/25 12:54	BAG	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Sample Delivery Group (SDG) Narrative

The laboratory analysis was performed from an unpreserved, insufficiently or inadequately preserved sample.

Batch	Method	Lab Sample ID
WG2628067	350.1	L1910849-04

Wet Chemistry by Method 350.1

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2628067	(DUP) R4292175-10	Ammonia Nitrogen

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2628067	(MS) R4292175-11	Ammonia Nitrogen

Wet Chemistry by Method 9056A

RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Batch	Lab Sample ID	Analytes
WG2626884	(DUP) R4292859-6	Chloride and Sulfate

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2626884	(MS) R4292859-4	Sulfate

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.3	su
Specific Conductance (on site)	30100	umhos/cm
Temperature (on-site)	7.88	Deg. C

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5720		56.4	1	10/27/2025 14:06	WG2627292

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	105		4.00	1	10/27/2025 09:56	WG2627350

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	2870		20.0	1	10/24/2025 12:11	WG2626848

Sample Narrative:

L1910849-01 WG2626848: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	468		12.7	400	10/26/2025 23:13	WG2628067

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1860		2.60	50	10/27/2025 23:24	WG2626884
Sulfate	18.1		5.00	5	10/27/2025 23:11	WG2626884

Sample Narrative:

L1910849-01 WG2626884: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	64.8		1.00	1	10/26/2025 23:09	WG2627081
Iron	1.20		0.100	1	10/28/2025 12:51	WG2628405
Potassium	356		1.00	1	10/26/2025 23:09	WG2627081
Magnesium	102		1.00	1	10/26/2025 23:09	WG2627081
Sodium	1510		1.00	2	10/27/2025 00:13	WG2627081

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.55	su
Specific Conductance (on site)	8307	umhos/cm
Temperature (on-site)	8.85	Deg. C

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4990		28.2	1	10/27/2025 14:06	WG2627292

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	32.8		4.00	1	10/27/2025 11:10	WG2627349

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	1890		20.0	1	10/24/2025 16:01	WG2626873

Sample Narrative:

L1910849-02 WG2626873: Endpoint pH 4.5 HEDASPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	129		0.634	20	10/26/2025 23:14	WG2628067

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1690		2.60	50	10/27/2025 23:49	WG2626884
Sulfate	8.39		5.00	5	10/27/2025 23:36	WG2626884

Sample Narrative:

L1910849-02 WG2626884: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	85.2		1.00	1	10/26/2025 23:11	WG2627081
Iron	1.02		0.100	1	10/28/2025 12:53	WG2628405
Potassium	309		1.00	1	10/26/2025 23:11	WG2627081
Magnesium	95.3		1.00	1	10/26/2025 23:11	WG2627081
Sodium	1210		1.00	2	10/27/2025 00:15	WG2627081

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.02	su
Specific Conductance (on site)	8421	umhos/cm
Temperature (on-site)	10.5	Deg. C

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5220		28.2	1	10/27/2025 14:06	WG2627292

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	276		6.36	1	10/29/2025 09:42	WG2629518

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	510		20.0	1	10/24/2025 16:06	WG2626873

Sample Narrative:

L1910849-03 WG2626873: Endpoint pH 4.5 HEDASPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	17.8		0.158	5	10/26/2025 22:42	WG2628067

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1630		2.60	50	10/28/2025 00:14	WG2626884
Sulfate	81.8		5.00	5	10/28/2025 00:02	WG2626884

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	132		1.00	1	10/26/2025 23:12	WG2627081
Iron	4.98		0.100	1	10/28/2025 12:44	WG2628405
Potassium	334		1.00	1	10/26/2025 23:12	WG2627081
Magnesium	111		1.00	1	10/26/2025 23:12	WG2627081
Sodium	1210		1.00	2	10/27/2025 00:16	WG2627081

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.96	su
Specific Conductance (on site)	16980	umhos/cm
Temperature (on-site)	10.4	Deg. C

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	9800		113	1	10/27/2025 14:06	WG2627292

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	145		6.36	1	10/27/2025 11:10	WG2627349

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	5750		20.0	1	10/24/2025 16:12	WG2626873

Sample Narrative:

L1910849-04 WG2626873: Endpoint pH 4.5 HEDASPACE

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	1410		15.8	500	10/26/2025 23:16	WG2628067

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	2650		2.60	50	10/28/2025 01:05	WG2626884
Sulfate	83.1		5.00	5	10/28/2025 00:52	WG2626884

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	125		1.00	1	10/26/2025 23:14	WG2627081
Iron	16.9		0.100	1	10/28/2025 12:54	WG2628405
Potassium	578		1.00	5	10/27/2025 00:18	WG2627081
Magnesium	135		1.00	1	10/26/2025 23:14	WG2627081
Sodium	2330		1.00	5	10/27/2025 00:18	WG2627081

Method Blank (MB)

(MB) R4292930-1 10/27/25 14:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	ND		2.82	10.0

L1910616-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1910616-07 10/27/25 14:06 • (DUP) R4292930-3 10/27/25 14:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	675	669	1	0.893		10

L1910849-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1910849-04 10/27/25 14:06 • (DUP) R4292930-4 10/27/25 14:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	9800	9640	1	1.65		10

Laboratory Control Sample (LCS)

(LCS) R4292930-2 10/27/25 14:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8190	93.1	90.0-110	

Method Blank (MB)

(MB) R4292807-1 10/27/25 11:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1911187-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1911187-01 10/27/25 11:10 • (DUP) R4292807-4 10/27/25 11:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	1130	1210	1	7.32		10

Laboratory Control Sample (LCS)

(LCS) R4292807-2 10/27/25 11:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	800	103	85.0-115	

Method Blank (MB)

(MB) R4292810-1 10/27/25 09:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1910849-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910849-01 10/27/25 09:56 • (DUP) R4292810-3 10/27/25 09:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	105	101	1	3.24		10

L1911017-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1911017-03 10/27/25 09:56 • (DUP) R4292810-4 10/27/25 09:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	51.4	52.7	1	2.63		10

Laboratory Control Sample (LCS)

(LCS) R4292810-2 10/27/25 09:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	810	105	85.0-115	

Method Blank (MB)

(MB) R4293986-1 10/29/25 09:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1912068-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1912068-01 10/29/25 09:42 • (DUP) R4293986-3 10/29/25 09:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	24.0	23.7	1	1.38		10

L1912122-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1912122-01 10/29/25 09:42 • (DUP) R4293986-4 10/29/25 09:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	205	213	1	3.83		10

Laboratory Control Sample (LCS)

(LCS) R4293986-2 10/29/25 09:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	800	103	85.0-115	

Method Blank (MB)

(MB) R4291594-2 10/24/25 09:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1909689-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1909689-01 10/24/25 09:54 • (DUP) R4291594-4 10/24/25 10:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	308	303	1	1.33		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

L1909689-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1909689-02 10/24/25 12:16 • (DUP) R4291594-6 10/24/25 12:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	309	310	1	0.132		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4291594-1 10/24/25 09:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	103	103	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4291836-2 10/24/25 13:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1910525-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1910525-01 10/24/25 13:45 • (DUP) R4291836-4 10/24/25 13:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	159	161	1	1.48		20

Sample Narrative:

OS: Endpoint pH 4.5 HEDASPACE

DUP: Endpoint pH 4.5

L1910837-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1910837-03 10/24/25 16:18 • (DUP) R4291836-6 10/24/25 16:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	275	278	1	1.26		20

Sample Narrative:

OS: Endpoint pH 4.5 HEDASPACE

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4291836-1 10/24/25 13:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	105	105	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4292175-1 10/26/25 21:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1910975-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1910975-04 10/26/25 23:23 • (DUP) R4292175-3 10/26/25 22:17

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	3.47	3.48	1	0.317		10

L1910975-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1910975-05 10/26/25 23:25 • (DUP) R4292175-10 10/26/25 23:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	2010	1380	500	37.2	J3	10

Laboratory Control Sample (LCS)

(LCS) R4292175-2 10/26/25 21:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.44	99.1	90.0-110	

L1910975-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910975-04 10/26/25 23:23 • (MS) R4292175-4 10/26/25 22:19 • (MSD) R4292175-5 10/26/25 22:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	3.47	8.52	8.43	101	99.2	1	90.0-110			1.13	10

L1910975-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1910975-05 10/26/25 23:25 • (MS) R4292175-11 10/26/25 23:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	2010	1620	0.000	500	90.0-110	V

Method Blank (MB)

(MB) R4292859-1 10/27/25 18:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.219	J	0.0519	1.00
Sulfate	0.219	J	0.0774	5.00

L1910715-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1910715-05 10/27/25 18:50 • (DUP) R4292859-3 10/27/25 19:02

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.06	3.07	1	0.404		15
Sulfate	55.6	56.8	1	2.11		15

L1910715-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1910715-06 10/27/25 19:36 • (DUP) R4292859-6 10/27/25 19:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2.39	1.03	1	79.6	P1	15
Sulfate	9.01	6.43	1	33.4	P1	15

Laboratory Control Sample (LCS)

(LCS) R4292859-2 10/27/25 18:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	36.1	90.3	80.0-120	
Sulfate	40.0	37.3	93.3	80.0-120	

L1910715-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910715-05 10/27/25 18:50 • (MS) R4292859-4 10/27/25 19:13 • (MSD) R4292859-5 10/27/25 19:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	3.06	42.2	44.3	97.8	103	1	80.0-120			4.85	15
Sulfate	40.0	55.6	84.4	89.8	72.0	85.5	1	80.0-120	J6		6.19	15

L1910715-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1910715-06 10/27/25 19:36 • (MS) R4292859-7 10/27/25 19:59

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	2.39	40.5	95.2	1	80.0-120	
Sulfate	40.0	9.01	45.8	92.1	1	80.0-120	

Method Blank (MB)

(MB) R4292219-8 10/27/25 00:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Calcium	0.880	J	0.0463	1.00
Potassium	0.182	J	0.102	1.00
Magnesium	0.319	J	0.0111	1.00
Sodium	1.44		0.0985	1.00

Laboratory Control Sample (LCS)

(LCS) R4292219-2 10/26/25 22:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	10.0	10.0	100	80.0-120	
Potassium	10.0	10.1	101	80.0-120	
Magnesium	10.0	10.2	102	80.0-120	
Sodium	10.0	10.3	103	80.0-120	

L1910737-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910737-01 10/26/25 22:41 • (MS) R4292219-4 10/26/25 22:45 • (MSD) R4292219-5 10/26/25 22:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	10.0	36.3	45.4	45.6	91.1	93.2	1	75.0-125			0.458	20
Potassium	10.0	2.09	11.6	11.7	95.4	95.6	1	75.0-125			0.177	20
Magnesium	10.0	7.84	17.6	17.8	97.7	99.4	1	75.0-125			0.971	20
Sodium	10.0	30.5	39.4	39.8	89.4	93.0	1	75.0-125			0.920	20

L1910854-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910854-04 10/26/25 22:48 • (MS) R4292219-6 10/26/25 22:50 • (MSD) R4292219-7 10/26/25 22:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	10.0	7.68	17.8	17.5	101	97.7	1	75.0-125			2.11	20
Potassium	10.0	1.82	11.6	11.4	97.4	95.8	1	75.0-125			1.33	20
Magnesium	10.0	8.99	19.2	18.9	103	99.0	1	75.0-125			1.87	20
Sodium	10.0	9.84	19.8	19.5	100	97.1	1	75.0-125			1.50	20

Method Blank (MB)

(MB) R4293204-1 10/28/25 12:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Iron	ND		0.0141	0.100

Laboratory Control Sample (LCS)

(LCS) R4293204-2 10/28/25 12:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	10.0	10.1	101	80.0-120	

L1910849-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1910849-03 10/28/25 12:44 • (MS) R4293204-4 10/28/25 12:48 • (MSD) R4293204-5 10/28/25 12:49

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	10.0	4.98	15.3	17.2	103	122	1	75.0-125			11.6	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Annual Leachate Selected Parms (concurrent with An

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
500

Lab Project #
WMCENIA-00005

Collected by (print):

Site/Facility ID #
IA02

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y 10

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl,SO4,ALK 125mlHDPE-NoPres	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	TDS 1L-HDPE NoPres	TSS 1L-HDPE NoPres						Remarks	Sample # (lab only)
								2	2									
LEACHATE POND 1	G	GW		10/22/25	1120	5	X	X	X	X	X							-01
LEACHATE POND 2	G	GW		10/22/25	1110	5	X	X	X	X	X							-02
LEACHATE POND 3	G	GW		10/22/25	1025	5	X	X	X	X	X							-03
LEACHATE POND 4	G	GW		10/22/25	1035	5	X	X	X	X	X							-04
~~LEACHATE POND 5~~		GW				5	X	X	X	X	X							

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1910849

F104

Template: **T165124**
Prelogin: **P1178265**
PM: **3564 - Chad A Upchurch**
PB: 09/23/25
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7919 5548 6950

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: Y __N
RAD Screen <0.5 mR/hr: Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	10/23/25	1630	FEDEX		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
				TUA 2.9 10:29 20	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / OK
				10/23/25	8:30		

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Laboratory Use Only / Lab I.D.: L1910849

Site Name: CDS

Sample I.D.: Leachate Pond 1

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D — D - Direct, I - Indirect, V - Visual

Sampling Equipment: D — D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other

Sample Type: Grab / Composite (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
10/22/19	1120	8.30	30100	7.88			

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Moderate Color: Black Other:

Sheen Present Y or (N) Foam Present: (Y) or N Floating Solids: Y or (N)

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: Precipitation: Y or N

Specific Comments:

Date	Name	Signature	Company
10/22/19	Kenneth Smith		Arbiana

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Laboratory Use Only / Lab I.D.: L1910849

Site Name: CDS

Sample I.D.: Leachate Pond 2

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D — D - Direct, I - Indirect, V - Visual

Sampling Equipment: D — D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other

Sample Type: Grab / Composite (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
10/22/25	1110	8.55	8307	8.85			

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Moderate Color: Black Other:

Sheen Present [Y] or [N] Foam Present: [Y] or [N] Floating Solids: [Y] or [N]

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: Precipitation: [Y] or [N]

Specific Comments:

Date	Name	Signature	Company
10/22/25	Kenneth Smith		Alliance

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Site Name: CDS

Sample I.D.: Leachate Pond 3

Laboratory Use Only / Lab I.D.: L1910849

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: [D] D - Direct, I - Indirect, V - Visual

Sampling Equipment: [D] D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other [ ]

Sample Type: [ ] Grab / Composite (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
10/22/25	1025	8.02	8421	10.5			

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Moderate Color: Black Other:

Sheen Present [Y] or [(N)] Foam Present: [(Y)] or [N] Floating Solids: [Y] or [(N)]

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: 13mph SE Precipitation: [Y] or [(N)]

Specific Comments:

Date	Name	Signature	Company
10/22/25	Kenneth Smith		Alliance

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Laboratory Use Only / Lab I.D.: L1910849

Site Name: CDS

Sample I.D.: Leachate Pond 4

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: [D] D - Direct, I - Indirect, V - Visual

Sampling Equipment: [D] D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other [ ]

Sample Type: [ ] (Grab) / Composite (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
10/22/25	1035	7.94	16480	10.4			

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Moderate Color: Black Other:

Sheen Present [Y] or [N] Foam Present: [Y] or [N] Floating Solids: [Y] or [N]

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: Precipitation: [Y] or [N]

Specific Comments:

Date	Name	Signature	Company
10/22/25	Kenneth Smith		Advanced

Appendix B Landfill Gas Monitoring and Management Report

2025 METHANE MANAGEMENT SYSTEM ANNUAL REPORT

Central Disposal Landfill

January 30, 2026

Prepared for:
Central Disposal Systems, Inc.
21265-430th Street
Lake Mills, Iowa 50450

Prepared by:
Stantec Consulting Services Inc.
One Carlson Parkway, Suite 100
Plymouth, MN 55447

Project Number:
227708670

2025 Leachate Control System Performance Evaluation Annual Report
Signature Page
January 2025

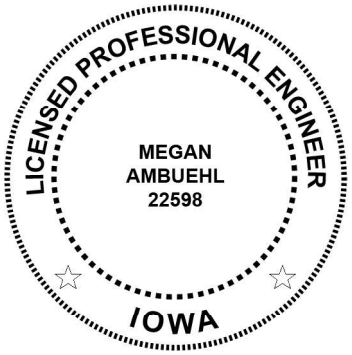
I hereby certify that this report was prepared by me or under my direct supervision, and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Megan Ambuehl

Megan Ambuehl, P.E.
State Registration No. 22598
License Renewal Date: 12/31/2026

1/29/2026

Date



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1.2 Monitoring System Description 1-2
1.2.1 Monitoring System History 1-2
1.2.2 Current Monitoring System 1-2
1.3 Monitoring Methods/Equipment 1-2
2 MONITORING RESULTS 2-1
3 SUMMARY AND RECOMMENDATIONS 3-1

TABLES

1 Historical Methane Gas Monitoring Results

FIGURES

1 Existing Monitoring Locations

1 Introduction

This 2025 Annual Report for the Central Disposal Systems, Inc. (CDS) Landfill was prepared by Stantec Consulting Services, Inc. (Stantec) to document the activities related to the Methane Management System in fulfillment of the Permit No. 95-SDP-1-72 and Iowa Department of Natural Resources (IDNR) Chapter 113.9.

1.1 Active Gas Management System Description

In June of 2003, an active landfill gas extraction system was completed, and in March 2006, a landfill gas-to-energy plant began operation. The active gas collection system includes vertical extraction wells, header piping and a utility flare. Additional vertical wells and associated piping were installed during summer 2004, 2005, 2006, 2007 and fall of 2008 and connected into the system. Significant site improvements continued to be made to the gas extraction and collection system during 2009, 2010, and 2011, including additional vertical extraction wells and associated piping. An additional twelve dual extraction wells and associated piping were installed in 2013. A construction documentation report entitled “Construction Observation Report, 2013 Landfill Gas System Expansion” dated December 2013, by Barker Lemar was submitted to the IDNR.

Operational improvements were made to the gas system in 2016 that included installation of new active gas extraction system piping and a new horizontal collector. Construction work was completed by American Environmental Group, Inc. In 2017, CDS again made improvements to the gas system including abandonment of some existing gas system piping, installation of new gas collection piping, and new horizontal collectors. The work completed in 2017 was temporary dependent on fill operations and there were no changes made to the gas collection system in 2018-2020.

Improvements to the gas management system were implemented in late 2021 and completed in 2022. Twenty-seven (27) vertical gas extraction wells, 12 horizontal stone drain collectors, landfill gas laterals, airline piping, and force main piping were installed. Pumps were installed as part of the improvements to convert to a dual-extraction system to assist with leachate management. Also, thirty-nine (39) vertical gas extraction wells were abandoned along with some miscellaneous piping, horizontals, header risers, and valves. Tetra Tech provided the construction quality assurance and submitted documentation of these gas system improvements to the IDNR (Doc ID# 105005).

In 2024, significant changes and improvements were again made to the gas management system. A combination of thirty-seven (37) new and redrilled vertical gas extraction wells and their associated lateral and header piping was installed. Tetra Tech provided the construction quality assurance.

In 2025, CDS completed a closure construction project in the northwestern portion of the landfill. Tetra Tech provided construction quality assurance for the project and CDS will provide construction documentation information when the record is complete and available. Modifications to the gas infrastructure in the area will be addressed in the documentation report.

In conjunction with the phased overlay liner construction events being completed at CDS, additional horizontal gas collectors are anticipated to be constructed in 2026 both under the overlay liner system and on top of the installed drainage sand.

1.2 Monitoring System Description

1.2.1 MONITORING SYSTEM HISTORY

The methane management system, in accordance with Chapter 113.9 and as submitted in the CDS Implementation Plan dated January 30, 2008, consisted of 10 gas probes located around the site at 600-foot intervals on the west, north, and east sides of the active site. In accordance with the current site permit and as documented in the installation letter report by Stantec dated November 4, 2009, two additional probes were installed in August 2009 on the south side of the landfill property. GMW-10, on the east side of the facility, which had been inadvertently removed during site operations, was also relocated at this time. In December 2010, the methane monitoring system was again modified. Existing gas probes GMW -1 through GMW-9 were abandoned and five new gas probes, GMW -13 through GMW –17, were installed on December 7 and 8, 2010.

In correspondence to the IDNR dated December 21, 2015, CDS proposed installation of an additional landfill gas monitoring probe to the east of the unlined waste disposal area. The proposal was presented in response to IDNR comments regarding the 2014 AWQR and the October 8, 2015 meeting between the Landfill and IDNR representatives. The purpose of the additional monitoring point is to aid in evaluating the potential migration of landfill gas immediately to the east of the unlined landfilled area. GMW-18 was installed on August 23, 2016. GMW-18 is not a landfill gas monitoring compliance point as it is not situated at the property boundary. The monitoring point was installed to provide an early indication of potential groundwater detections that may occur from landfill gas migration. Documentation of installation and an updated Landfill Gas Monitoring Plan was submitted to IDNR in September 2016 (IDNR Document 87289). The facility Permit incorporates approval of the Landfill Gas Monitoring Plan (IDNR Document 87445 - approved on October 20, 2016).

1.2.2 CURRENT MONITORING SYSTEM

The current monitoring system is depicted on **Figure 1** and includes GMW-18, the five gas probes installed in 2010, and existing probes GMW-10R, 11, and 12 for a total of nine probes. Also monitored are the on-site structures, which include the office and the shop areas.

1.3 Monitoring Methods/Equipment

The objective of the methane gas monitoring system is to guide site management in the appropriate protocols for methane gas management for the Central Disposal Landfill and to assure compliance with the IDNR Solid Waste Management and Disposal Regulations related to explosive gas control and monitoring for sanitary landfill operations (113.9).

Methane concentrations at the monitoring probes and onsite structures were measured during each of the four quarters in 2025 by WM personnel. A Landtech Gem5000 landfill gas meter was used to perform the monitoring. The meter is calibrated regularly, per WM policy, with calibration gases at various concentrations of Methane and Carbon Dioxide. Methane concentrations in the scale house and shop are also measured continually with building monitors. Building monitors are checked monthly with a “bump test” to ensure they are working properly.

The regulatory requirements for gas probe monitoring are listed below:

- The concentration of methane gas generated by the facility does not exceed 25 percent of the lower explosive limit for methane in facility structures (i.e., less than 1.25% methane).
- The concentration of methane gas does not exceed the lower explosive limit at the facility property boundary (i.e., less than 5% methane).

2 Monitoring Results

WM performed the landfill gas monitoring in 2025 as discussed above.

Methane concentrations recorded during the 2025 monitoring events for the current monitoring system (GMW-10R, and GMW-11 through 18) are tabulated along with historical information on **Table 1**. Methane was detected at very low concentrations (0.1-0.3%; well below the LEL compliance limit) within GMW-11 through 18 during the February monitoring event. Methane was again detected at a very low concentration (0.1%) later in the year within GMW-14 and 15.

Methane was also detected within GMW-10R during the June (0.1%) and August (0-0.8%) monitoring events. During the August monitoring of GMW-10R, CDS returned to the monitoring location later the same day to take another reading and did not detect methane.

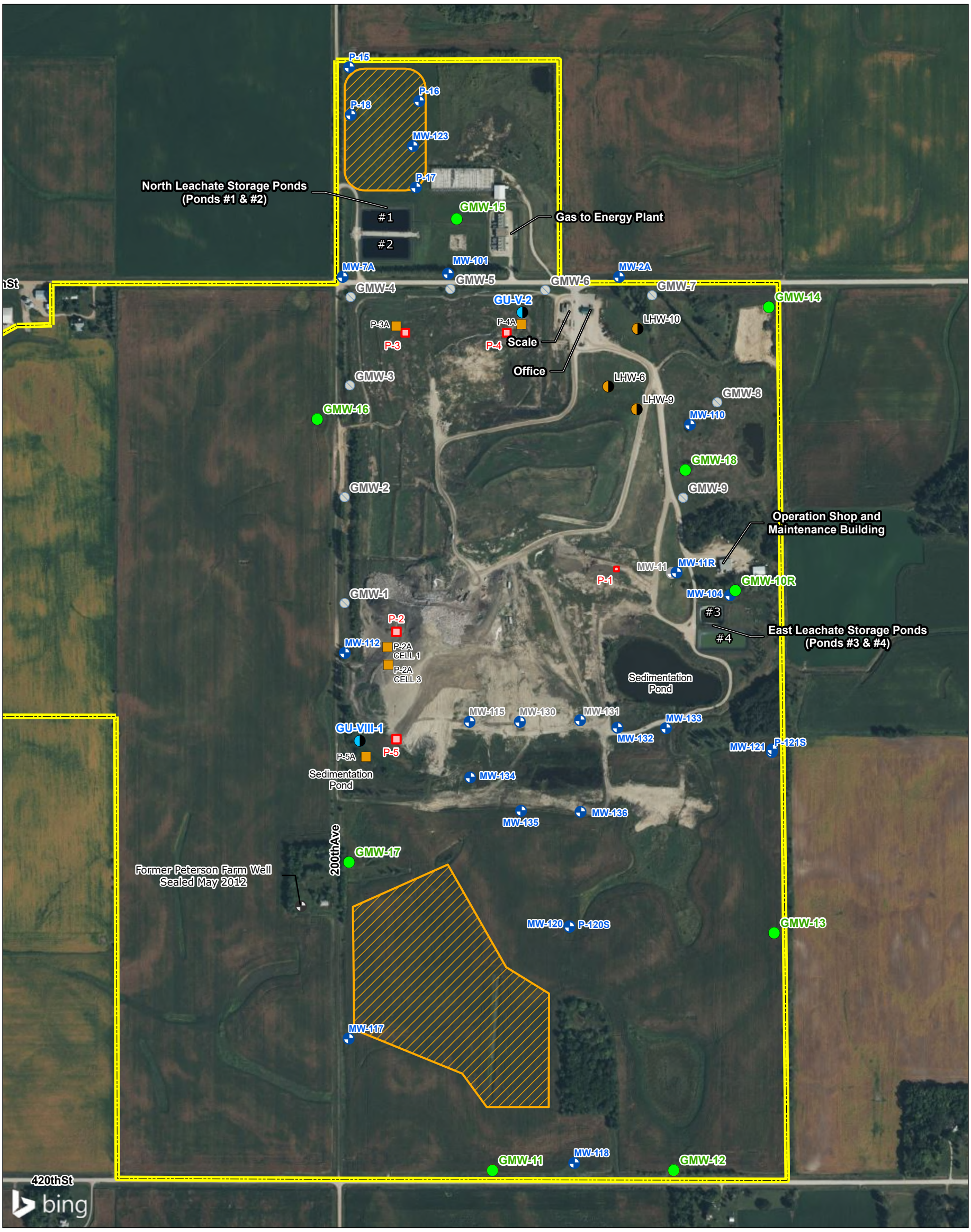
No methane was detected in the other on-site landfill structures by WM personnel or by the in-place building monitors. Building monitor operation was confirmed monthly in accordance with site procedures. WM recorded the monitoring events performed by their representative on a quarterly basis which is documented in **Table 1**. All recorded methane concentrations within the monitoring network were below the compliance threshold.

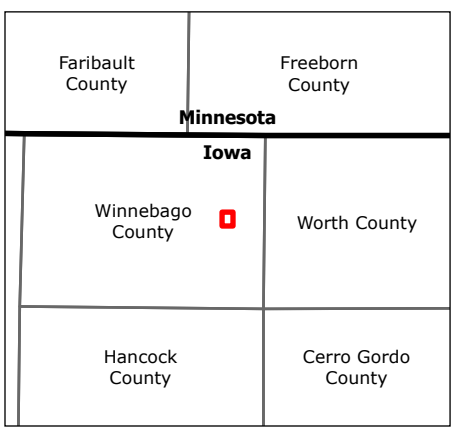
3 Summary and Recommendations

Based on a review of the current and historical methane data, neither methane nor landfill gas is migrating to the on-site structures nor off the site property in quantities that exceed regulatory levels. It is, therefore, recommended that:

The quarterly monitoring events continue as stipulated by IAC, Chapter 113.9

FIGURE 1 – EXISTING MONITORING LOCATIONS





Notes
1. Coordinate System: NAD 1983 StatePlane Iowa North FIPS 1401 Feet
2. Data Sources: Bing Maps
3. Background: Bing Aerial Imagery

Legend

- Property Line
- Monitoring Well
- Sealed Monitoring Well
- Sealed Private Well
- Leachate Head Well
- Alternate Leachate Head Level Monitoring Location
- Sealed Gas Monitoring Probe
- Groundwater Underdrain
- Subsurface Gas Monitoring Probe
- Leachate Sump
- Former Spray Irrigation Site (Permit Terminated 2017)

0 300 600 Feet

(At original document size of 11x17)
1:7,200

N

Stantec

Project Location
T99N, R23W, S21
Lake Mills, Winnebago Co., IA

Prepared by BS on 2026-01-21

Client/Project
227708670
Central Disposal Systems, Inc.
2025 Annual Report

Figure No.
1

Title
Landfill Monitoring Network

U:\227\227702549\Pro\wm_central\wm_central.aprx Revised: 2026-01-21 By: bschafermeyer

Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

TABLE 1 - HISTORICAL METHANE GAS MONITORING RESULTS

Table 1 - Summary
Quarterly Methane Monitoring Results
Central Disposal Landfill
Lake Mills, IA

Monitoring Point	Date	Methane Reading (% CH4)
GMW-10R	24-Sep-09	0.0
GMW-10R	12-Nov-09	0.8
GMW-10R	26-Mar-10	0.4
GMW-10R	18-Jun-10	0.1
GMW-10R	03-Sep-10	0.0
GMW-10R	29-Nov-10	0.0
GMW-10R	24-Mar-11	0.0
GMW-10R	24-Jun-11	0.0
GMW-10R	08-Sep-11	0.0
GMW-10R	24-Oct-11	0.0
GMW-10R	23-Dec-11	0.0
GMW-10R	14-Feb-12	0.0
GMW-10R	14-Feb-12	0.0
GMW-10R	12-Jun-12	0.0
GMW-10R	28-Sep-12	0.0
GMW-10R	14-Dec-12	0.0
GMW-10R	20-Mar-13	0.0
GMW-10R	27-Jun-13	0.0
GMW-10R	30-Sep-13	0.0
GMW-10R	10-Dec-13	0.0
GMW-10R	20-Mar-14	0.0
GMW-10R	09-Jun-14	0.0
GMW-10R	26-Sep-14	0.0
GMW-10R	26-Sep-14	0.0
GMW-10R	12-Dec-14	0.0
GMW-10R	11-Mar-15	0.0
GMW-10R	12-Jun-15	0.0
GMW-10R	18-Sep-15	0.0
GMW-10R	11-Dec-15	0.0
GMW-10R	25-Mar-16	0.0
GMW-10R	20-Jun-16	0.0
GMW-10R	13-Sep-16	0.0
GMW-10R	15-Nov-16	0.0
GMW-10R	20-Mar-17	0.0
GMW-10R	29-Jun-17	0.0
GMW-10R	28-Aug-17	0.0
GMW-10R	21-Dec-17	0.0
GMW-10R	30-Mar-18	0.0
GMW-10R	28-Jun-18	0.0
GMW-10R	21-Sep-18	0.0
GMW-10R	26-Dec-18	0.0
GMW-10R	18-Mar-19	0.0
GMW-10R	18-Jun-19	0.0
GMW-10R	19-Sep-19	0.0
GMW-10R	11-Mar-20	0.0
GMW-10R	18-Jun-20	0.0
GMW-10R	17-Sep-20	0.0
GMW-10R	19-Mar-21	0.0
GMW-10R	23-Jun-21	0.0
GMW-10R	10-Aug-21	0.0
GMW-10R	08-Nov-21	0.0
GMW-10R	16-Mar-22	0.0
GMW-10R	24-May-22	0.0
GMW-10R	22-Aug-22	0.0
GMW-10R	28-Nov-22	0.0
GMW-10R	23-Mar-23	0.1
GMW-10R	12-Jun-23	0.0
GMW-10R	12-Sep-23	0.0
GMW-10R	17-Nov-23	0.0
GMW-10R	26-Feb-24	0.0
GMW-10R	22-May-24	0.0
GMW-10R	16-Aug-24	0.0
GMW-10R	02-Dec-24	0.0
GMW-10R	21-Feb-25	0.0
GMW-10R	17-Jun-25	0.1
GMW-10R	20-Aug-25	0.8
GMW-10R	20-Aug-25	0.0
GMW-10R	23-Dec-25	0.0

Monitoring Point	Date	Methane Reading (% CH4)
GMW-11	24-Sep-09	0.0
GMW-11	12-Nov-09	0.0
GMW-11	26-Mar-10	0.0
GMW-11	18-Jun-10	0.0
GMW-11	03-Sep-10	0.0
GMW-11	29-Nov-10	0.0
GMW-11	24-Mar-11	0.0
GMW-11	24-Jun-11	0.0
GMW-11	08-Sep-11	0.0
GMW-11	24-Oct-11	0.0
GMW-11	23-Dec-11	0.0
GMW-11	14-Feb-12	0.0
GMW-11	12-Jun-12	0.0
GMW-11	28-Sep-12	0.0
GMW-11	14-Dec-12	0.0
GMW-11	20-Mar-13	0.0
GMW-11	27-Jun-13	0.0
GMW-11	30-Sep-13	0.0
GMW-11	10-Dec-13	0.0
GMW-11	20-Mar-14	0.0
GMW-11	09-Jun-14	0.0
GMW-11	26-Sep-14	0.0
GMW-11	12-Dec-14	0.0
GMW-11	11-Mar-15	0.0
GMW-11	12-Jun-15	0.0
GMW-11	18-Sep-15	0.0
GMW-11	11-Dec-15	0.0
GMW-11	25-Mar-16	0.0
GMW-11	20-Jun-16	0.0
GMW-11	13-Sep-16	0.0
GMW-11	15-Nov-16	0.0
GMW-11	20-Mar-17	0.0
GMW-11	29-Jun-17	0.0
GMW-11	28-Aug-17	0.0
GMW-11	21-Dec-17	0.0
GMW-11	30-Mar-18	0.0
GMW-11	28-Jun-18	0.0
GMW-11	21-Sep-18	0.0
GMW-11	26-Dec-18	0.0
GMW-11	18-Mar-19	0.0
GMW-11	18-Jun-19	0.0
GMW-11	19-Sep-19	0.0
GMW-11	11-Mar-20	0.1
GMW-11	18-Jun-20	0.2
GMW-11	17-Sep-20	0.0
GMW-11	19-Mar-21	0.0
GMW-11	23-Jun-21	0.0
GMW-11	10-Aug-21	0.0
GMW-11	10-Aug-21	0.0
GMW-11	08-Nov-21	0.0
GMW-11	16-Mar-22	0.0
GMW-11	24-May-22	0.0
GMW-11	22-Aug-22	0.0
GMW-11	28-Nov-22	0.0
GMW-11	23-Mar-23	0.0
GMW-11	12-Jun-23	0.0
GMW-11	12-Sep-23	0.0
GMW-11	17-Nov-23	0.0
GMW-11	26-Feb-24	0.0
GMW-11	22-May-24	0.0
GMW-11	16-Aug-24	0.0
GMW-11	02-Dec-24	0.0
GMW-11	21-Feb-25	0.2
GMW-11	17-Jun-25	0.0
GMW-11	20-Aug-25	0.0
GMW-11	23-Dec-25	0.0

Table 1 - Summary
Quarterly Methane Monitoring Results
Central Disposal Landfill
Lake Mills, IA

Monitoring Point	Date	Methane Reading (% CH4)
GMW-12	24-Sep-09	0.0
GMW-12	12-Nov-09	0.0
GMW-12	26-Mar-10	0.0
GMW-12	18-Jun-10	0.0
GMW-12	03-Sep-10	0.0
GMW-12	29-Nov-10	0.0
GMW-12	24-Mar-11	0.0
GMW-12	24-Jun-11	0.0
GMW-12	08-Sep-11	0.0
GMW-12	24-Oct-11	0.0
GMW-12	23-Dec-11	0.0
GMW-12	14-Feb-12	0.0
GMW-12	12-Jun-12	0.0
GMW-12	28-Sep-12	0.0
GMW-12	14-Dec-12	0.0
GMW-12	20-Mar-13	0.0
GMW-12	27-Jun-13	0.0
GMW-12	30-Sep-13	0.0
GMW-12	10-Dec-13	0.0
GMW-12	20-Mar-14	0.0
GMW-12	09-Jun-14	0.0
GMW-12	26-Sep-14	0.0
GMW-12	12-Dec-14	0.0
GMW-12	11-Mar-15	0.0
GMW-12	12-Jun-15	0.0
GMW-12	18-Sep-15	0.0
GMW-12	11-Dec-15	0.0
GMW-12	25-Mar-16	0.0
GMW-12	20-Jun-16	0.0
GMW-12	13-Sep-16	0.0
GMW-12	15-Nov-16	0.0
GMW-12	20-Mar-17	0.0
GMW-12	29-Jun-17	0.0
GMW-12	28-Aug-17	0.0
GMW-12	21-Dec-17	0.0
GMW-12	30-Mar-18	0.0
GMW-12	28-Jun-18	0.0
GMW-12	21-Sep-18	0.0
GMW-12	26-Dec-18	0.0
GMW-12	18-Mar-19	0.0
GMW-12	18-Jun-19	0.0
GMW-12	19-Sep-19	0.0
GMW-12	11-Mar-20	0.1
GMW-12	18-Jun-20	0.1
GMW-12	17-Sep-20	0.0
GMW-12	19-Mar-21	0.0
GMW-12	23-Jun-21	0.0
GMW-12	10-Aug-21	0.0
GMW-12	08-Nov-21	0.0
GMW-12	16-Mar-22	0.0
GMW-12	24-May-22	0.0
GMW-12	22-Aug-22	0.0
GMW-12	28-Nov-22	0.0
GMW-12	23-Mar-23	0.0
GMW-12	12-Jun-23	0.1
GMW-12	12-Sep-23	0.0
GMW-12	17-Nov-23	0.0
GMW-12	26-Feb-24	0.0
GMW-12	22-May-24	0.0
GMW-12	16-Aug-24	0.0
GMW-12	02-Dec-24	0.0
GMW-12	21-Feb-25	0.1
GMW-12	17-Jun-25	0.0
GMW-12	20-Aug-25	0.0
GMW-12	23-Dec-25	0.0

Monitoring Point	Date	Methane Reading (% CH4)
GMW-13	24-Mar-11	0.0
GMW-13	24-Jun-11	0.0
GMW-13	08-Sep-11	0.0
GMW-13	24-Oct-11	0.0
GMW-13	23-Dec-11	0.0
GMW-13	14-Feb-12	0.0
GMW-13	04-May-12	0.0
GMW-13	12-Jun-12	0.0
GMW-13	28-Sep-12	0.0
GMW-13	14-Dec-12	0.0
GMW-13	20-Mar-13	0.0
GMW-13	27-Jun-13	0.0
GMW-13	30-Sep-13	0.0
GMW-13	10-Dec-13	0.0
GMW-13	20-Mar-14	0.0
GMW-13	09-Jun-14	0.0
GMW-13	26-Sep-14	0.0
GMW-13	12-Dec-14	0.0
GMW-13	11-Mar-15	0.0
GMW-13	12-Jun-15	0.0
GMW-13	18-Sep-15	0.0
GMW-13	11-Dec-15	0.0
GMW-13	25-Mar-16	0.0
GMW-13	20-Jun-16	0.0
GMW-13	13-Sep-16	0.0
GMW-13	15-Nov-16	0.0
GMW-13	20-Mar-17	0.0
GMW-13	29-Jun-17	0.0
GMW-13	28-Aug-17	0.0
GMW-13	21-Dec-17	0.0
GMW-13	30-Mar-18	0.0
GMW-13	28-Jun-18	0.0
GMW-13	21-Sep-18	0.0
GMW-13	26-Dec-18	0.0
GMW-13	18-Mar-19	0.0
GMW-13	18-Jun-19	0.0
GMW-13	19-Sep-19	0.0
GMW-13	11-Mar-20	0.0
GMW-13	18-Jun-20	0.1
GMW-13	17-Sep-20	0.0
GMW-13	19-Mar-21	0.0
GMW-13	23-Jun-21	0.0
GMW-13	10-Aug-21	0.0
GMW-13	10-Aug-21	0.0
GMW-13	08-Nov-21	0.0
GMW-13	16-Mar-22	0.0
GMW-13	24-May-22	0.0
GMW-13	22-Aug-22	0.0
GMW-13	28-Nov-22	0.0
GMW-13	23-Mar-23	0.0
GMW-13	12-Jun-23	0.1
GMW-13	12-Sep-23	0.0
GMW-13	17-Nov-23	0.0
GMW-13	26-Feb-24	0.0
GMW-13	22-May-24	0.0
GMW-13	19-Aug-24	0.0
GMW-13	02-Dec-24	0.0
GMW-13	21-Feb-25	0.1
GMW-13	17-Jun-25	0.0
GMW-13	20-Aug-25	0.0
GMW-13	23-Dec-25	0.0

Table 1 - Summary
Quarterly Methane Monitoring Results
Central Disposal Landfill
Lake Mills, IA

Monitoring Point	Date	Methane Reading (% CH4)
GMW-14	24-Mar-11	0.0
GMW-14	24-Jun-11	0.0
GMW-14	08-Sep-11	0.0
GMW-14	24-Oct-11	0.0
GMW-14	23-Dec-11	0.0
GMW-14	14-Feb-12	0.0
GMW-14	12-Jun-12	0.0
GMW-14	28-Sep-12	0.0
GMW-14	14-Dec-12	0.0
GMW-14	20-Mar-13	0.0
GMW-14	27-Jun-13	0.0
GMW-14	30-Sep-13	0.0
GMW-14	10-Dec-13	0.0
GMW-14	20-Mar-14	0.0
GMW-14	09-Jun-14	0.0
GMW-14	09-Jun-14	0.0
GMW-14	26-Sep-14	0.0
GMW-14	12-Dec-14	0.0
GMW-14	11-Mar-15	0.0
GMW-14	12-Jun-15	0.0
GMW-14	18-Sep-15	0.0
GMW-14	11-Dec-15	0.0
GMW-14	25-Mar-16	0.0
GMW-14	20-Jun-16	0.0
GMW-14	13-Sep-16	0.0
GMW-14	15-Nov-16	0.0
GMW-14	20-Mar-17	0.0
GMW-14	29-Jun-17	0.0
GMW-14	28-Aug-17	0.0
GMW-14	21-Dec-17	0.0
GMW-14	30-Mar-18	0.0
GMW-14	28-Jun-18	0.0
GMW-14	21-Sep-18	0.0
GMW-14	26-Dec-18	0.0
GMW-14	18-Mar-19	0.0
GMW-14	18-Jun-19	0.0
GMW-14	19-Sep-19	0.0
GMW-14	11-Mar-20	0.1
GMW-14	18-Jun-20	0.2
GMW-14	17-Sep-20	0.0
GMW-14	19-Mar-21	0.0
GMW-14	23-Jun-21	0.0
GMW-14	10-Aug-21	0.0
GMW-14	08-Nov-21	0.0
GMW-14	16-Mar-22	0.0
GMW-14	24-May-22	0.0
GMW-14	22-Aug-22	0.0
GMW-14	28-Nov-22	0.0
GMW-14	23-Mar-23	0.0
GMW-14	12-Jun-23	0.0
GMW-14	12-Sep-23	0.0
GMW-14	17-Nov-23	0.0
GMW-14	26-Feb-24	0.0
GMW-14	22-May-24	0.0
GMW-14	16-Aug-24	0.0
GMW-14	02-Dec-24	0.0
GMW-14	21-Feb-25	0.1
GMW-14	17-Jun-25	0.0
GMW-14	20-Aug-25	0.0
GMW-14	23-Dec-25	0.1

Monitoring Point	Date	Methane Reading (% CH4)
GMW-15	24-Mar-11	0.0
GMW-15	24-Jun-11	0.0
GMW-15	08-Sep-11	0.0
GMW-15	24-Oct-11	0.0
GMW-15	23-Dec-11	0.0
GMW-15	14-Feb-12	0.0
GMW-15	14-Feb-12	0.0
GMW-15	04-May-12	0.0
GMW-15	12-Jun-12	0.0
GMW-15	28-Sep-12	0.0
GMW-15	14-Dec-12	0.0
GMW-15	20-Mar-13	0.0
GMW-15	27-Jun-13	0.0
GMW-15	30-Sep-13	0.0
GMW-15	10-Dec-13	0.0
GMW-15	20-Mar-14	0.0
GMW-15	09-Jun-14	0.0
GMW-15	26-Sep-14	0.0
GMW-15	12-Dec-14	0.0
GMW-15	11-Mar-15	0.0
GMW-15	12-Jun-15	0.0
GMW-15	18-Sep-15	0.0
GMW-15	11-Dec-15	0.0
GMW-15	25-Mar-16	0.0
GMW-15	20-Jun-16	0.0
GMW-15	13-Sep-16	0.0
GMW-15	15-Nov-16	0.0
GMW-15	20-Mar-17	0.0
GMW-15	29-Jun-17	0.0
GMW-15	28-Aug-17	0.0
GMW-15	21-Dec-17	0.0
GMW-15	30-Mar-18	0.0
GMW-15	28-Jun-18	0.0
GMW-15	21-Sep-18	0.0
GMW-15	26-Dec-18	0.0
GMW-15	18-Mar-19	0.0
GMW-15	18-Jun-19	0.0
GMW-15	19-Sep-19	0.0
GMW-15	11-Mar-20	0.2
GMW-15	18-Jun-20	0.4
GMW-15	17-Sep-20	0.0
GMW-15	19-Mar-21	0.0
GMW-15	23-Jun-21	0.0
GMW-15	10-Aug-21	0.0
GMW-15	08-Nov-21	0.0
GMW-15	16-Mar-22	0.0
GMW-15	24-May-22	0.0
GMW-15	22-Aug-22	0.0
GMW-15	28-Nov-22	0.0
GMW-15	23-Mar-23	0.0
GMW-15	12-Jun-23	0.0
GMW-15	12-Sep-23	0.0
GMW-15	17-Nov-23	0.0
GMW-15	26-Feb-24	0.0
GMW-15	22-May-24	0.0
GMW-15	16-Aug-24	0.0
GMW-15	02-Dec-24	0.0
GMW-15	21-Feb-25	0.3
GMW-15	17-Jun-25	0.0
GMW-15	20-Aug-25	0.1
GMW-15	23-Dec-25	0.0

Table 1 - Summary
Quarterly Methane Monitoring Results
Central Disposal Landfill
Lake Mills, IA

Monitoring Point	Date	Methane Reading (% CH4)
GMW-16	24-Mar-11	0.0
GMW-16	24-Jun-11	0.0
GMW-16	08-Sep-11	0.0
GMW-16	24-Oct-11	0.0
GMW-16	23-Dec-11	0.0
GMW-16	12-Feb-12	0.0
GMW-16	04-May-12	0.0
GMW-16	12-Jun-12	0.0
GMW-16	28-Sep-12	0.0
GMW-16	14-Dec-12	0.0
GMW-16	20-Mar-13	0.0
GMW-16	27-Jun-13	0.0
GMW-16	30-Sep-13	0.0
GMW-16	10-Dec-13	0.0
GMW-16	20-Mar-14	0.0
GMW-16	09-Jun-14	0.0
GMW-16	26-Sep-14	0.0
GMW-16	12-Dec-14	0.0
GMW-16	11-Mar-15	0.0
GMW-16	12-Jun-15	0.0
GMW-16	18-Sep-15	0.0
GMW-16	11-Dec-15	0.0
GMW-16	25-Mar-16	0.0
GMW-16	20-Jun-16	0.0
GMW-16	13-Sep-16	0.0
GMW-16	15-Nov-16	0.0
GMW-16	20-Mar-17	0.0
GMW-16	29-Jun-17	0.0
GMW-16	28-Aug-17	0.0
GMW-16	21-Dec-17	0.0
GMW-16	30-Mar-18	0.0
GMW-16	28-Jun-18	0.0
GMW-16	21-Sep-18	0.0
GMW-16	26-Dec-18	0.0
GMW-16	18-Mar-19	0.0
GMW-16	18-Jun-19	0.0
GMW-16	19-Sep-19	0.0
GMW-16	11-Mar-20	0.0
GMW-16	18-Jun-20	0.2
GMW-16	17-Sep-20	0.0
GMW-16	19-Mar-21	0.0
GMW-16	23-Jun-21	0.0
GMW-16	10-Aug-21	0.0
GMW-16	08-Nov-21	0.0
GMW-16	16-Mar-22	0.0
GMW-16	24-May-22	0.0
GMW-16	22-Aug-22	0.0
GMW-16	28-Nov-22	0.0
GMW-16	23-Mar-23	0.0
GMW-16	12-Jun-23	0.0
GMW-16	12-Sep-23	0.0
GMW-16	17-Nov-23	0.0
GMW-16	26-Feb-24	0.0
GMW-16	22-May-24	0.0
GMW-16	19-Aug-24	0.0
GMW-16	02-Dec-24	0.0
GMW-16	21-Feb-25	0.1
GMW-16	17-Jun-25	0.0
GMW-16	20-Aug-25	0.0
GMW-16	23-Dec-25	0.0

Monitoring Point	Date	Methane Reading (% CH4)
GMW-17	24-Mar-11	0.0
GMW-17	24-Jun-11	0.0
GMW-17	08-Sep-11	0.0
GMW-17	24-Oct-11	0.0
GMW-17	23-Dec-11	0.0
GMW-17	14-Feb-12	0.0
GMW-17	12-Jun-12	0.0
GMW-17	28-Sep-12	0.0
GMW-17	14-Dec-12	0.0
GMW-17	20-Mar-13	0.0
GMW-17	27-Jun-13	0.0
GMW-17	30-Sep-13	0.0
GMW-17	10-Dec-13	0.0
GMW-17	20-Mar-14	0.0
GMW-17	09-Jun-14	0.0
GMW-17	26-Sep-14	0.0
GMW-17	12-Dec-14	0.0
GMW-17	11-Mar-15	0.0
GMW-17	12-Jun-15	0.0
GMW-17	18-Sep-15	0.0
GMW-17	11-Dec-15	0.0
GMW-17	25-Mar-16	0.0
GMW-17	20-Jun-16	0.0
GMW-17	13-Sep-16	0.0
GMW-17	15-Nov-16	0.0
GMW-17	20-Mar-17	0.0
GMW-17	29-Jun-17	0.0
GMW-17	28-Aug-17	0.0
GMW-17	21-Dec-17	0.0
GMW-17	30-Mar-18	0.0
GMW-17	28-Jun-18	0.0
GMW-17	21-Sep-18	0.0
GMW-17	26-Dec-18	0.0
GMW-17	18-Mar-19	0.0
GMW-17	18-Jun-19	0.0
GMW-17	19-Sep-19	0.0
GMW-17	11-Mar-20	0.0
GMW-17	18-Jun-20	0.1
GMW-17	17-Sep-20	0.0
GMW-17	19-Mar-21	0.0
GMW-17	23-Jun-21	0.0
GMW-17	10-Aug-21	0.0
GMW-17	08-Nov-21	0.0
GMW-17	16-Mar-22	0.0
GMW-17	24-May-22	0.0
GMW-17	22-Aug-22	0.0
GMW-17	28-Nov-22	0.0
GMW-17	23-Mar-23	0.0
GMW-17	12-Jun-23	0.1
GMW-17	12-Sep-23	0.0
GMW-17	17-Nov-23	0.0
GMW-17	26-Feb-24	0.0
GMW-17	22-May-24	0.0
GMW-17	19-Aug-24	0.0
GMW-17	02-Dec-24	0.0
GMW-17	21-Feb-25	0.1
GMW-17	17-Jun-25	0.0
GMW-17	20-Aug-25	0.0
GMW-17	23-Dec-25	0.0

Table 1 - Summary
Quarterly Methane Monitoring Results
Central Disposal Landfill
Lake Mills, IA

Monitoring Point	Date	Methane Reading (% CH4)
GMW-18	13-Sep-16	0.0
GMW-18	15-Nov-16	0.0
GMW-18	20-Mar-17	0.0
GMW-18	29-Jun-17	0.0
GMW-18	28-Aug-17	0.0
GMW-18	21-Dec-17	0.0
GMW-18	30-Mar-18	0.0
GMW-18	28-Jun-18	0.0
GMW-18	21-Sep-18	0.0
GMW-18	26-Dec-18	0.0
GMW-18	18-Mar-19	0.0
GMW-18	18-Jun-19	0.0
GMW-18	19-Sep-19	0.0
GMW-18	18-Jun-20	0.0
GMW-18	17-Sep-20	0.0
GMW-18	19-Mar-21	0.0
GMW-18	23-Jun-21	0.0
GMW-18	10-Aug-21	0.0
GMW-18	08-Nov-21	0.0
GMW-18	16-Mar-22	0.0
GMW-18	24-May-22	0.0
GMW-18	22-Aug-22	0.0
GMW-18	28-Nov-22	0.0
GMW-18	23-Mar-23	0.0
GMW-18	12-Jun-23	0.0
GMW-18	12-Sep-23	0.0
GMW-18	17-Nov-23	0.0
GMW-18	26-Feb-24	0.0
GMW-18	22-May-24	0.0
GMW-18	16-Aug-24	0.0
GMW-18	02-Dec-24	0.0
GMW-18	21-Feb-25	0.1
GMW-18	17-Jun-25	0.0
GMW-18	20-Aug-25	0.0
GMW-18	23-Dec-25	0.0

Monitoring Point	Date	Methane Reading (% CH4)
Scale House	25-Mar-22	0.0
Scale House	24-May-22	0.0
Scale House	22-Aug-22	0.0
Scale House	28-Nov-22	0.0
Scale House	24-Mar-23	0.0
Scale House	12-Jun-23	0.0
Scale House	12-Sep-23	0.0
Scale House	17-Nov-23	0.0
Scale House	26-Feb-24	0.0
Scale House	23-May-24	0.0
Scale House	16-Aug-24	0.0
Scale House	02-Dec-24	0.0
Scale House	21-Feb-25	0.0
Scale House	17-Jun-25	0.0
Scale House	20-Aug-25	0.0
Scale House	23-Dec-25	0.0

Monitoring Point	Date	Methane Reading (% CH4)
Shop	25-Mar-22	0.0
Shop	24-May-22	0.0
Shop	22-Aug-22	0.0
Shop	28-Nov-22	0.0
Shop	24-Mar-23	0.0
Shop	12-Jun-23	0.0
Shop	17-Nov-23	0.0
Shop	26-Feb-24	0.0
Shop	23-May-24	0.0
Shop	23-Aug-24	0.0
Shop	02-Dec-24	0.0
Shop	21-Feb-25	0.0
Shop	17-Jun-25	0.0
Shop	20-Aug-25	0.0
Shop	23-Dec-25	0.0

Monitoring Point	Date	Methane Reading (% CH4)
Greenhouse	24-Mar-23	0.0
Greenhouse	12-Jun-23	0.0
Greenhouse	12-Sep-23	0.0
Greenhouse	17-Nov-23	0.0
Greenhouse	26-Feb-24	0.0
Greenhouse	08-May-24	0.0
Greenhouse	23-May-24	1.0
Greenhouse	16-Aug-24	0.0
Greenhouse	02-Dec-24	0.0
Greenhouse	21-Feb-25	0.0
Greenhouse	17-Jun-25	0.0
Greenhouse	20-Aug-25	0.0
Greenhouse	23-Dec-25	0.0

Monitoring Point	Date	Methane Reading (% CH4)
WMRE	24-Mar-23	0.0
WMRE	12-Jun-23	0.0
WMRE	12-Sep-23	0.0
WMRE	17-Nov-23	0.0
WMRE	26-Feb-24	0.0
WMRE	23-May-24	0.0
WMRE	19-Aug-24	0.0
WMRE	02-Dec-24	0.0
WMRE	21-Feb-25	0.0
WMRE	17-Jun-25	0.0
WMRE	20-Aug-25	0.0
WMRE	23-Dec-25	0.0

Note: As of 4Q 2009 WM performs the gas monitoring.

Appendix C Annual Detection Monitoring Analytical Reports (Pace National)

ANALYTICAL REPORT

November 18, 2025

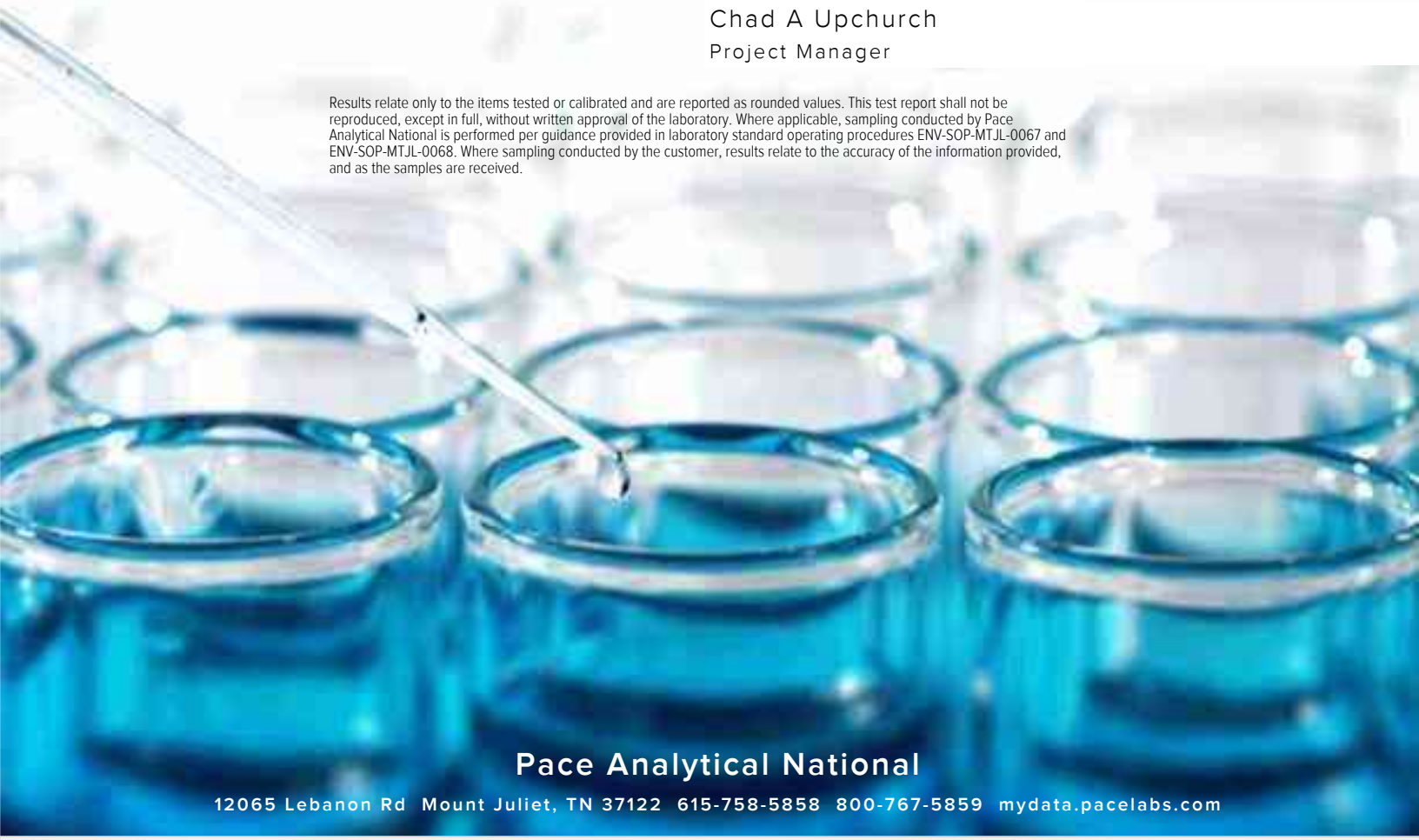
Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1914833
Samples Received:	11/05/2025
Project Number:	100
Description:	Annual GW selected parameters(3Q21,4Q22,3Q24)
Site:	IA02
Report To:	Aaron Rebmann 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-110 L1914833-01

Collected by: Kenneth Smith | Collected date/time: 11/03/25 16:39 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634689	1	11/06/25 00:26	11/06/25 07:54	BDC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636250	1	11/09/25 17:37	11/09/25 17:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2637870	1	11/11/25 13:28	11/11/25 13:28	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634455	1	11/05/25 20:27	11/05/25 20:27	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	1	11/06/25 03:38	11/06/25 03:38	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	10	11/06/25 04:10	11/06/25 04:10	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2635266	1	11/07/25 10:08	11/09/25 09:56	MAP	Mt. Juliet, TN

MW-117 L1914833-02

Collected by: Kenneth Smith | Collected date/time: 11/04/25 10:50 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634689	1	11/06/25 00:26	11/06/25 07:54	BDC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636253	1	11/10/25 08:37	11/10/25 08:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2637870	1	11/11/25 13:31	11/11/25 13:31	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634455	1	11/05/25 19:57	11/05/25 19:57	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	1	11/06/25 04:21	11/06/25 04:21	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	10	11/06/25 04:31	11/06/25 04:31	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2635266	1	11/07/25 10:08	11/09/25 10:03	MAP	Mt. Juliet, TN

MW-118 L1914833-03

Collected by: Kenneth Smith | Collected date/time: 11/04/25 09:35 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634689	1	11/06/25 00:26	11/06/25 07:54	BDC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636253	1	11/10/25 08:37	11/10/25 08:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2637870	1	11/11/25 13:35	11/11/25 13:35	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634455	1	11/05/25 19:59	11/05/25 19:59	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	1	11/06/25 04:42	11/06/25 04:42	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	10	11/06/25 04:53	11/06/25 04:53	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2635266	1	11/07/25 10:08	11/09/25 10:05	MAP	Mt. Juliet, TN

MW-2A L1914833-04

Collected by: Kenneth Smith | Collected date/time: 11/04/25 11:07 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634689	1	11/06/25 00:26	11/06/25 07:54	BDC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636253	1	11/10/25 08:37	11/10/25 08:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2637870	1	11/11/25 13:39	11/11/25 13:39	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634461	1	11/05/25 20:50	11/05/25 20:50	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	5	11/06/25 05:04	11/06/25 05:04	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2635266	1	11/07/25 10:08	11/09/25 10:07	MAP	Mt. Juliet, TN

MW-132 L1914833-05

Collected by: Kenneth Smith | Collected date/time: 11/03/25 15:50 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634689	1	11/06/25 00:26	11/06/25 07:54	BDC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636250	1	11/09/25 17:37	11/09/25 17:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2637870	1	11/11/25 13:43	11/11/25 13:43	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634461	1	11/05/25 20:56	11/05/25 20:56	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	5	11/06/25 05:25	11/06/25 05:25	ZSA	Mt. Juliet, TN

MW-132 L1914833-05

Collected by: Kenneth Smith | Collected date/time: 11/03/25 15:50 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2634290	50	11/06/25 05:36	11/06/25 05:36	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2635266	1	11/07/25 10:08	11/09/25 10:09	MAP	Mt. Juliet, TN

MW-133 L1914833-06

Collected by: Kenneth Smith | Collected date/time: 11/03/25 15:09 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634690	1	11/06/25 00:28	11/06/25 19:26	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636250	1	11/09/25 17:37	11/09/25 17:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2638050	1	11/12/25 10:18	11/12/25 10:18	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634461	1	11/05/25 20:57	11/05/25 20:57	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	5	11/06/25 05:46	11/06/25 05:46	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	50	11/06/25 06:18	11/06/25 06:18	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2635266	1	11/07/25 10:08	11/09/25 10:14	MAP	Mt. Juliet, TN

MW-7A L1914833-07

Collected by: Kenneth Smith | Collected date/time: 11/03/25 17:15 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634689	1	11/06/25 00:26	11/06/25 07:54	BDC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636250	1	11/09/25 17:37	11/09/25 17:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2637870	1	11/11/25 13:48	11/11/25 13:48	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634461	1	11/05/25 20:59	11/05/25 20:59	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	1	11/06/25 06:29	11/06/25 06:29	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2635266	1	11/07/25 10:08	11/09/25 10:16	MAP	Mt. Juliet, TN

MW-123 L1914833-08

Collected by: Kenneth Smith | Collected date/time: 11/04/25 09:28 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634689	1	11/06/25 00:26	11/06/25 07:54	BDC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636253	1	11/10/25 08:37	11/10/25 08:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2637870	1	11/11/25 13:52	11/11/25 13:52	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634461	1	11/05/25 21:00	11/05/25 21:00	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	1	11/06/25 06:50	11/06/25 06:50	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634290	5	11/06/25 07:01	11/06/25 07:01	ZSA	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2635266	1	11/07/25 10:08	11/09/25 10:17	MAP	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Gravimetric Analysis by Method 2540 D-2011

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2636250	(DUP) R4299230-4, L1914833-07	Suspended Solids

Wet Chemistry by Method 9056A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2634290	(MS) R4297364-4, (MS) R4297364-8, (MSD) R4297364-5	Chloride and Sulfate

Metals (ICP) by Method 6010C

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2635266	(MS) R4298433-4, (MSD) R4298433-5, L1914833-01	Calcium and Sodium

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.36	su
Specific Conductance (on site)	1078	umhos/cm
Temperature (on-site)	9.5	Deg. C
Turbidity (on-site)	9.7	NTU
Dissolved Oxygen (on-site)	1.6	mg/l
eH/ORP (On Site)	-6.2	mV
Depth To Water (onsite)	56.3	ft

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	737		10.0	1	11/06/2025 07:54	WG2634689

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	ND		4.00	1	11/09/2025 17:59	WG2636250

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	472		20.0	1	11/11/2025 13:28	WG2637870

Sample Narrative:

L1914833-01 WG2637870: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.122		0.100	1	11/05/2025 20:27	WG2634455

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1.83		1.00	1	11/06/2025 03:38	WG2634290
Sulfate	189		5.00	10	11/06/2025 04:10	WG2634290

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	145	V	1.00	1	11/09/2025 09:56	WG2635266
Iron	0.159		0.100	1	11/09/2025 09:56	WG2635266
Potassium	7.97		1.00	1	11/09/2025 09:56	WG2635266
Magnesium	34.1		1.00	1	11/09/2025 09:56	WG2635266
Sodium	73.1	V	1.00	1	11/09/2025 09:56	WG2635266

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.4	su
Specific Conductance (on site)	1289	umhos/cm
Temperature (on-site)	10.2	Deg. C
Turbidity (on-site)	16	NTU
Dissolved Oxygen (on-site)	0.2	mg/l
eH/ORP (On Site)	77	mV
Depth To Water (onsite)	53.33	ft

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	786		10.0	1	11/06/2025 07:54	WG2634689

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	22.8		4.00	1	11/10/2025 08:41	WG2636253

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	486		20.0	1	11/11/2025 13:31	WG2637870

Sample Narrative:

L1914833-02 WG2637870: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.754		0.100	1	11/05/2025 19:57	WG2634455

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	2.97		1.00	1	11/06/2025 04:21	WG2634290
Sulfate	229		5.00	10	11/06/2025 04:31	WG2634290

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	161		1.00	1	11/09/2025 10:03	WG2635266
Iron	1.83		0.100	1	11/09/2025 10:03	WG2635266
Potassium	8.82		1.00	1	11/09/2025 10:03	WG2635266
Magnesium	40.3		1.00	1	11/09/2025 10:03	WG2635266
Sodium	69.9		1.00	1	11/09/2025 10:03	WG2635266

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.4	su
Specific Conductance (on site)	1154	umhos/cm
Temperature (on-site)	9.3	Deg. C
Turbidity (on-site)	1	NTU
Dissolved Oxygen (on-site)	0.4	mg/l
eH/ORP (On Site)	175	mV

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	697		10.0	1	11/06/2025 07:54	WG2634689

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	ND		4.00	1	11/10/2025 08:41	WG2636253

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	445		20.0	1	11/11/2025 13:35	WG2637870

Sample Narrative:

L1914833-03 WG2637870: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.520		0.100	1	11/05/2025 19:59	WG2634455

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1.23		1.00	1	11/06/2025 04:42	WG2634290
Sulfate	182		5.00	10	11/06/2025 04:53	WG2634290

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	135		1.00	1	11/09/2025 10:05	WG2635266
Iron	0.903		0.100	1	11/09/2025 10:05	WG2635266
Potassium	8.28		1.00	1	11/09/2025 10:05	WG2635266
Magnesium	42.7		1.00	1	11/09/2025 10:05	WG2635266
Sodium	57.4		1.00	1	11/09/2025 10:05	WG2635266

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.07	su
Specific Conductance (on site)	1319	umhos/cm
Temperature (on-site)	9.7	Deg. C
Turbidity (on-site)	11.8	NTU
Dissolved Oxygen (on-site)	0.9	mg/l
eH/ORP (On Site)	57.8	mV
Depth To Water (onsite)	37.41	ft

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	928		10.0	1	11/06/2025 07:54	WG2634689

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	10.8		4.00	1	11/10/2025 08:41	WG2636253

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	507		20.0	1	11/11/2025 13:39	WG2637870

Sample Narrative:

L1914833-04 WG2637870: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.197		0.100	1	11/05/2025 20:50	WG2634461

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1.78		1.00	5	11/06/2025 05:04	WG2634290
Sulfate	310		5.00	5	11/06/2025 05:04	WG2634290

Sample Narrative:

L1914833-04 WG2634290: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	190		1.00	1	11/09/2025 10:07	WG2635266
Iron	0.326		0.100	1	11/09/2025 10:07	WG2635266
Potassium	9.54		1.00	1	11/09/2025 10:07	WG2635266
Magnesium	47.4		1.00	1	11/09/2025 10:07	WG2635266
Sodium	77.1		1.00	1	11/09/2025 10:07	WG2635266

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.19	su
Specific Conductance (on site)	1767	umhos/cm
Temperature (on-site)	10.9	Deg. C
Turbidity (on-site)	16	NTU
Dissolved Oxygen (on-site)	2.7	mg/l
eH/ORP (On Site)	10.2	mV
Depth To Water (onsite)	25.4	ft

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1420		10.0	1	11/06/2025 07:54	WG2634689

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	14.7		4.00	1	11/09/2025 17:59	WG2636250

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	501		20.0	1	11/11/2025 13:43	WG2637870

Sample Narrative:

L1914833-05 WG2637870: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.357		0.100	1	11/05/2025 20:56	WG2634461

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	4.03		1.00	5	11/06/2025 05:25	WG2634290
Sulfate	653		5.00	50	11/06/2025 05:36	WG2634290

Sample Narrative:

L1914833-05 WG2634290: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	305		1.00	1	11/09/2025 10:09	WG2635266
Iron	1.14		0.100	1	11/09/2025 10:09	WG2635266
Potassium	11.0		1.00	1	11/09/2025 10:09	WG2635266
Magnesium	79.5		1.00	1	11/09/2025 10:09	WG2635266
Sodium	52.1		1.00	1	11/09/2025 10:09	WG2635266

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	6.92	su
Specific Conductance (on site)	2124	umhos/cm
Temperature (on-site)	10.6	Deg. C
Turbidity (on-site)	18.3	NTU
Dissolved Oxygen (on-site)	1.3	mg/l
eH/ORP (On Site)	-1.6	mV
Depth To Water (onsite)	16.22	ft

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1540		10.0	1	11/06/2025 19:26	WG2634690

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	11.2		4.00	1	11/09/2025 17:59	WG2636250

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	561		20.0	1	11/12/2025 10:18	WG2638050

Sample Narrative:

L1914833-06 WG2638050: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.591		0.100	1	11/05/2025 20:57	WG2634461

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	10.1		1.00	5	11/06/2025 05:46	WG2634290
Sulfate	693		5.00	50	11/06/2025 06:18	WG2634290

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	360		1.00	1	11/09/2025 10:14	WG2635266
Iron	4.56		0.100	1	11/09/2025 10:14	WG2635266
Potassium	10.5		1.00	1	11/09/2025 10:14	WG2635266
Magnesium	103		1.00	1	11/09/2025 10:14	WG2635266
Sodium	28.8		1.00	1	11/09/2025 10:14	WG2635266

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.51	su
Specific Conductance (on site)	831	umhos/cm
Temperature (on-site)	9.6	Deg. C
Turbidity (on-site)	13.6	NTU
Dissolved Oxygen (on-site)	2.1	mg/l
Depth To Water (onsite)	63.12	ft

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	543		10.0	1	11/06/2025 07:54	WG2634689

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	46.5	J3	4.00	1	11/09/2025 17:59	WG2636250

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	425		20.0	1	11/11/2025 13:48	WG2637870

Sample Narrative:

L1914833-07 WG2637870: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	ND		0.100	1	11/05/2025 20:59	WG2634461

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	7.05		1.00	1	11/06/2025 06:29	WG2634290
Sulfate	60.2		5.00	1	11/06/2025 06:29	WG2634290

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	115		1.00	1	11/09/2025 10:16	WG2635266
Iron	2.24		0.100	1	11/09/2025 10:16	WG2635266
Potassium	7.36		1.00	1	11/09/2025 10:16	WG2635266
Magnesium	29.6		1.00	1	11/09/2025 10:16	WG2635266
Sodium	40.6		1.00	1	11/09/2025 10:16	WG2635266

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.23	su
Specific Conductance (on site)	902	umhos/cm
Temperature (on-site)	9.3	Deg. C
Turbidity (on-site)	8.6	NTU
Dissolved Oxygen (on-site)	0.9	mg/l
eH/ORP (On Site)	-32.8	mV
Depth To Water (onsite)	63.38	ft

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	591		10.0	1	11/06/2025 07:54	WG2634689

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	ND		4.00	1	11/10/2025 08:41	WG2636253

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	426		20.0	1	11/11/2025 13:52	WG2637870

Sample Narrative:

L1914833-08 WG2637870: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.500		0.100	1	11/05/2025 21:00	WG2634461

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	3.19		1.00	1	11/06/2025 06:50	WG2634290
Sulfate	124		5.00	5	11/06/2025 07:01	WG2634290

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	137		1.00	1	11/09/2025 10:17	WG2635266
Iron	1.86		0.100	1	11/09/2025 10:17	WG2635266
Potassium	6.35		1.00	1	11/09/2025 10:17	WG2635266
Magnesium	37.1		1.00	1	11/09/2025 10:17	WG2635266
Sodium	27.4		1.00	1	11/09/2025 10:17	WG2635266

Method Blank (MB)

(MB) R4298141-1 11/06/25 07:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	ND		2.82	10.0

L1914825-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1914825-01 11/06/25 07:54 • (DUP) R4298141-3 11/06/25 07:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1310	1350	1	3.01		10

L1914859-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1914859-09 11/06/25 07:54 • (DUP) R4298141-4 11/06/25 07:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	894	890	1	0.448		10

Laboratory Control Sample (LCS)

(LCS) R4298141-2 11/06/25 07:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8560	97.3	90.0-110	

Method Blank (MB)

(MB) R4298431-1 11/06/25 19:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	ND		2.82	10.0

L1914562-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1914562-01 11/06/25 19:26 • (DUP) R4298431-3 11/06/25 19:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2910	2760	1	5.47		10

L1914833-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1914833-06 11/06/25 19:26 • (DUP) R4298431-4 11/06/25 19:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1540	1590	1	3.19		10

Laboratory Control Sample (LCS)

(LCS) R4298431-2 11/06/25 19:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8550	97.2	90.0-110	

Method Blank (MB)

(MB) R4299230-1 11/09/25 17:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1914816-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1914816-01 11/09/25 17:59 • (DUP) R4299230-3 11/09/25 17:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	46.0	48.0	1	4.26		10

L1914833-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1914833-07 11/09/25 17:59 • (DUP) R4299230-4 11/09/25 17:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	46.5	61.3	1	27.4	J3	10

Laboratory Control Sample (LCS)

(LCS) R4299230-2 11/09/25 17:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	742	96.0	85.0-115	

Method Blank (MB)

(MB) R4299370-1 11/10/25 08:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1914825-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1914825-01 11/10/25 08:41 • (DUP) R4299370-3 11/10/25 08:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	64.0	66.0	1	3.08		10

L1915110-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1915110-01 11/10/25 08:41 • (DUP) R4299370-4 11/10/25 08:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	45.5	45.8	1	0.548		10

Laboratory Control Sample (LCS)

(LCS) R4299370-2 11/10/25 08:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	758	98.1	85.0-115	

Method Blank (MB)

(MB) R4299360-2 11/11/25 12:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1914736-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1914736-04 11/11/25 12:20 • (DUP) R4299360-3 11/11/25 12:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	329	327	1	0.600		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1915820-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1915820-06 11/11/25 14:26 • (DUP) R4299360-4 11/11/25 14:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	247	248	1	0.519		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4299360-1 11/11/25 12:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	98.2	98.2	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4299813-2 11/12/25 09:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1915852-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1915852-01 11/12/25 09:44 • (DUP) R4299813-4 11/12/25 09:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	112	111	1	0.887		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1916682-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1916682-01 11/12/25 11:33 • (DUP) R4299813-6 11/12/25 11:38

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	145	144	1	0.530		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4299813-1 11/12/25 09:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	96.8	96.8	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4297008-1 11/05/25 19:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1914825-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1914825-02 11/05/25 19:23 • (DUP) R4297008-3 11/05/25 19:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1914827-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1914827-02 11/05/25 19:39 • (DUP) R4297008-6 11/05/25 19:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4297008-2 11/05/25 19:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.27	96.9	90.0-110	

L1914825-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1914825-02 11/05/25 19:23 • (MS) R4297008-4 11/05/25 19:30 • (MSD) R4297008-5 11/05/25 19:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	ND	5.01	4.84	100	96.7	1	90.0-110			3.46	10

L1914827-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1914827-02 11/05/25 19:39 • (MS) R4297008-7 11/05/25 19:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.15	103	1	90.0-110	

Method Blank (MB)

(MB) R4297009-1 11/05/25 20:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1914833-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1914833-04 11/05/25 20:50 • (DUP) R4297009-3 11/05/25 20:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.197	0.204	1	3.49		10

L1914840-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1914840-01 11/05/25 21:17 • (DUP) R4297009-6 11/05/25 21:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.519	0.520	1	0.192		10

Laboratory Control Sample (LCS)

(LCS) R4297009-2 11/05/25 20:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.32	97.5	90.0-110	

L1914833-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1914833-04 11/05/25 20:50 • (MS) R4297009-4 11/05/25 20:53 • (MSD) R4297009-5 11/05/25 20:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.197	5.11	5.08	98.3	97.6	1	90.0-110			0.687	10

L1914840-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1914840-01 11/05/25 21:17 • (MS) R4297009-7 11/05/25 21:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	0.519	5.63	102	1	90.0-110	

Method Blank (MB)

(MB) R4297364-1 11/06/25 00:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	ND		0.0519	1.00
Sulfate	0.152	J	0.0774	5.00

L1914784-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1914784-01 11/06/25 01:08 • (DUP) R4297364-3 11/06/25 01:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	74.3	74.2	1	0.139		15
Sulfate	71.6	71.3	1	0.428		15

L1914827-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1914827-03 11/06/25 01:51 • (DUP) R4297364-6 11/06/25 02:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.68	1.68	1	0.232		15
Sulfate	49.6	50.3	1	1.44		15

Laboratory Control Sample (LCS)

(LCS) R4297364-2 11/06/25 00:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.4	95.9	80.0-120	
Sulfate	40.0	40.2	100	80.0-120	

L1914784-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1914784-01 11/06/25 01:08 • (MS) R4297364-4 11/06/25 01:30 • (MSD) R4297364-5 11/06/25 01:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	74.3	97.9	98.0	58.9	59.2	1	80.0-120	J6	J6	0.0956	15
Sulfate	40.0	71.6	97.0	97.0	63.6	63.5	1	80.0-120	J6	J6	0.0306	15

L1914827-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1914827-03 11/06/25 01:51 • (MS) R4297364-8 11/06/25 02:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	1.68	40.0	95.9	1	80.0-120	
Sulfate	40.0	49.6	79.6	74.9	1	80.0-120	J6

Method Blank (MB)

(MB) R4298433-1 11/09/25 09:53

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Calcium	ND		0.0463	1.00
Iron	ND		0.0141	0.100
Potassium	ND		0.102	1.00
Magnesium	ND		0.0111	1.00
Sodium	ND		0.0985	1.00

Laboratory Control Sample (LCS)

(LCS) R4298433-2 11/09/25 09:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	10.0	9.76	97.6	80.0-120	
Iron	10.0	9.68	96.8	80.0-120	
Potassium	10.0	9.22	92.2	80.0-120	
Magnesium	10.0	9.57	95.7	80.0-120	
Sodium	10.0	9.66	96.6	80.0-120	

L1914833-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1914833-01 11/09/25 09:56 • (MS) R4298433-4 11/09/25 10:00 • (MSD) R4298433-5 11/09/25 10:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	10.0	145	150	150	48.6	44.5	1	75.0-125	V	V	0.272	20
Iron	10.0	0.159	9.59	10.0	94.3	98.4	1	75.0-125			4.18	20
Potassium	10.0	7.97	17.4	17.3	94.4	93.8	1	75.0-125			0.379	20
Magnesium	10.0	34.1	42.6	42.6	85.2	84.5	1	75.0-125			0.145	20
Sodium	10.0	73.1	81.3	80.1	82.0	70.7	1	75.0-125		V	1.40	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Annual GW selected parameters(3Q21,4Q22,3Q24)

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
100

Lab Project #
WMCENIA-00002

Collected by (print):
Kenneth Smith

Site/Facility ID #
IA02

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cl,SO4 125mlHDPE-NoPres	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	TDS,ALK 1L-HDPE NoPres	TSS 1L-HDPE NoPres						Remarks	Sample # (lab only)
GU-V-2		GW				5	X	X	X	X	X							
MW-110	G	GW		11/3/25	1639	5	X	X	X	X	X							-01
MW-117	G	GW		11/4/25	1050	5	X	X	X	X	X							-02
MW-118	G	GW		11/4/25	935	5	X	X	X	X	X							-03
MW-2A	G	GW		11/4/25	1107	5	X	X	X	X	X							-04
MW-132	G	GW		11/3/25	1550	5	X	X	X	X	X							-05
MW-133	G	GW		11/3/25	1509	5	X	X	X	X	X							-06
MW-7A	G	GW		11/3/25	1715	5	X	X	X	X	X							-07
MW-123	G	GW		11/4/25	928	5	X	X	X	X	X							-08

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # LP1148833

A171

Acctnum: **WMCENIA**
Template: **T165242**
Prelogin: **P1178259**
PM: **3564 - Chad A Upchurch**
PB: 09/23/25G
Shipped Via: **FedEX Priority**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	11/4/25	1800	FEDEX	—	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 40	If pr /Time
					PH – 10BDH07251 TRC – 5090A93
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11-5-25 Time: 0845	Hold: Condition: NCF / OK
			Dayanft		

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CDS

Site No.: | | | | |

Sample Point: MW110 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: LAB883

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/03/25	1624	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

X-Other:

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 56.30 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit: L/M	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1629	03	1st 7.34	1st 1082	9.5		1.6		
1634		2nd 7.35	2nd 1081	9.5		1.6		
1639		3rd 7.36	3rd 1078	9.5	9.7	1.6	-6.2	
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: _____ Odor: None Color: None Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/3/25	Kenneth Smith	KS	Alliance

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Central Disposal

Site No.:

Sample Point: MW117

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L91A833

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 04 25	1030	:	.	.	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: [Y] or [N]

Filter Device: [X] or [ ] [0.45 µ] or [ ] µ (circle or fill in)

Purging Device: C
Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	53.33 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1035	04 LPM	1st 7.42	1st 1284	10.4		0.9		
1040		2nd 7.41	2nd 1286	10.3		0.4		
1045		3rd 7.40	3rd 1288	10.2		0.3		
1050		4th 7.40	4th 1289	10.2	1.6	0.2	77	
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: _____ Odor: None Color: None Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/4/25	Mike H		Ally

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Central Disposal

Site No.:

Sample Point: MW118 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L914833

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 04 25	09:15	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: Y or N

Purging Device: C

Sampling Device: C

A- Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

X-Other:

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable B-Pressure C-Vacuum X-Other

Sample Tube Type: A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	LPM							
09:20	0.4 1st	7.18 1st	1147 1st	9.2		1.8		
09:25	2nd	7.42 2nd	1151 2nd	9.2		0.7		
09:30	3rd	7.42 3rd	1152 3rd	9.2		0.5		
09:35	4th	7.40 4th	1154 4th	9.3	11	0.4	175	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: ____ Odor: None Color: None Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/4/25	Mike Hu		Allen

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: 605

Site No.: | | | | |

Sample Point: MW2A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 409114833

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/04/25	10:42	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N — Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

X-Other: ____ — Sample Tube Type: ____ — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl) — Depth to Water (DTW) (from TOC) 37.41 (ft) — Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft) — Stick Up (from ground elevation) ____ (ft) — Casing ID ____ (in) — Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit LPM	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:47	0.3 1st	7.11 1st	1323 1st	9.7		0.9		
10:52	2nd	7.05 2nd	1316 2nd	9.7		0.9		
10:57	3rd	7.05 3rd	1319 3rd	9.7		0.9		
11:02	4th	7.06 4th	1315 4th	9.7		0.9		
11:07		7.07	1319	9.7	1.18	0.9	578	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: ____ Odor: NONE Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/4/25	Kenneth Smith		Allotrace

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

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FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CDS

Site No.: | | | | | Sample Point: MW132 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L914833

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/03/23	15:35	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type:

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) 25.40 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID ____ (in)

Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit: LPM	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
15:40	0.3	1st 7.19	1st 1763	10.8		2.7		
15:45	↓	2nd 7.14	2nd 1747	10.9		2.7		
15:50	↓	3rd 7.19	3rd 1767	10.9	160	2.7	10.2	
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: NONE Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign)

Date	Name	Signature	Company
11/3/23	Kenneth Smith		

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

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FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CDS

Site No.: | | | | |

Sample Point: MW133

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1914833

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/03/25	1454				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 16.22 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit L/m		pH (std)		Conductance (SC/EC) (µmhos/cm @ 25 °C)		Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1459	0.2	1st	6.86	1st	2154		10.6		10.7		
1504	↓	2nd	6.87	2nd	2129		10.6		10.7		
1509	↓	3rd	6.92	3rd	2124		10.6	18.3	11.3	-1.6	
		4th		4th							
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2		+/- 3%		--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: _____ Odor: NONE Color: NONE Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/3/25	Yomell Smith		Stantec

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CDS

Site No.: | | | | |

Sample Point: MW7A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1914833

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 03 25	1700	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) 63.12 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) ____ (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID ____ (in)

Casing Material ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit L/m	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1705	0.3 1st	7.56 1st	834	9.6		2.1		
1710	2nd	7.50 2nd	830	9.6		2.1		
1715	↓ 3rd	7.51 3rd	831	9.6	13.6	2.1		
	4th	4th						
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: NONE Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/3/25	Brandon Smith		Stellantis

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

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FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CDS

Site No.: | | | | | Sample Point: MW123 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 1914833

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/04/25	9:13	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: E

Sampling Device: E

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 63.38 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (LPM)		pH (std)		Conductance (SC/EC) (µmhos/cm @ 25 °C)		Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
9:18	0.3	1st	7.24	1st	898	1st	9.3		0.9		
9:23	↓	2nd	7.16	2nd	902	2nd	9.3		0.9		
9:28	↓	3rd	7.23	3rd	902	3rd	9.3	8.6	0.9	-32.8	
		4th		4th							
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2		+/- 3%		--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: None Color: None Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign)

Date	Name	Signature	Company
11/4/25	Kenneth Smith III		Alliance

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

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Multiple Parcel Form

L# L1914833

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4668 1546 7618	T14	5.1	0	5.1	(Yes) / No / Not Present
791955470876	T14	3.2	0	3.2	Yes / No / (Not Present)
791955464338	T14	2.0	0	2.0	Yes / No / (Not Present)
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Dengnh
Name

11.5.25
Date

ANALYTICAL REPORT

December 09, 2025

Revised Report

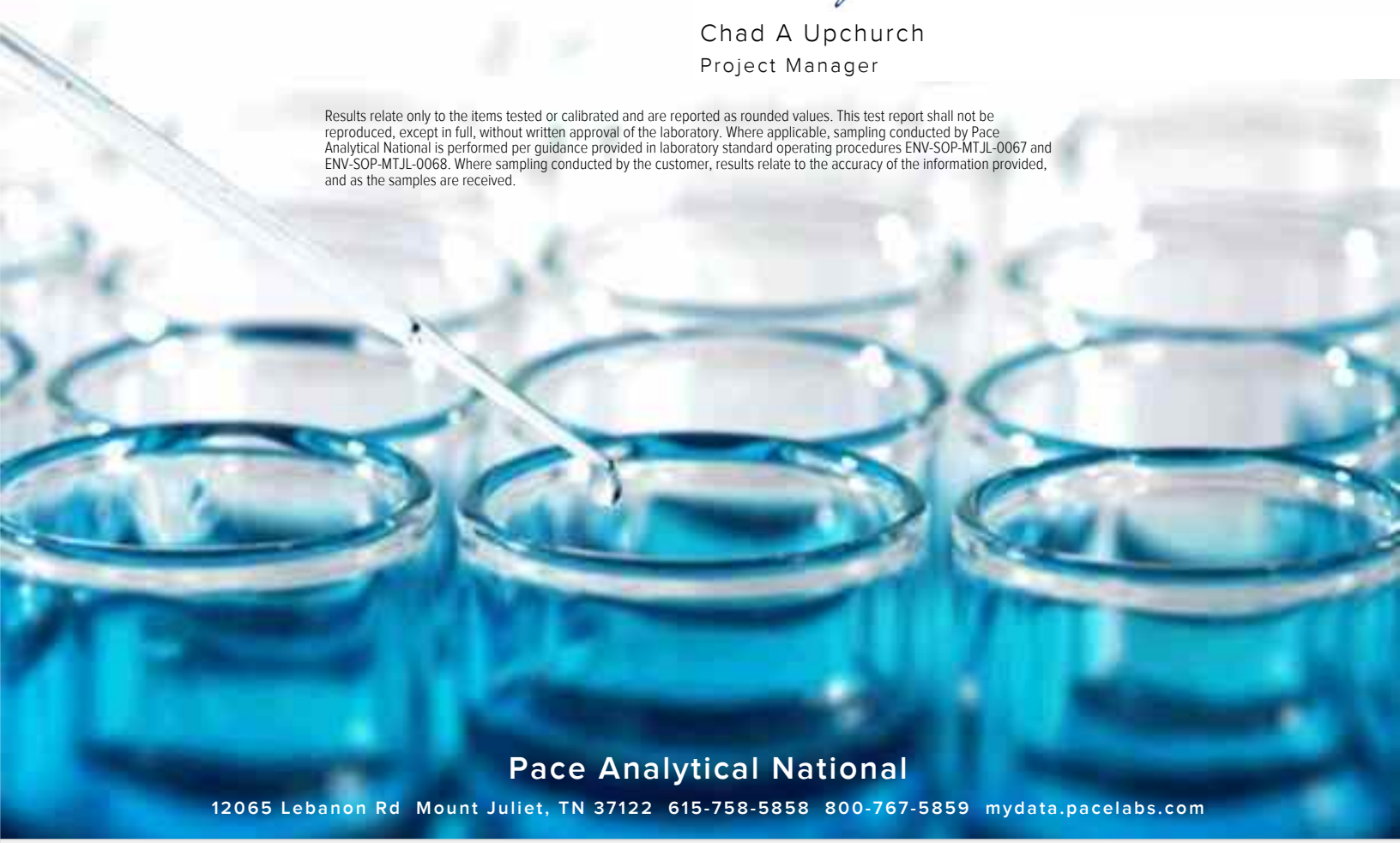
Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1917436
Samples Received:	11/12/2025
Project Number:	100
Description:	Annual GW selected parameters(3Q21,4Q22,3Q24)
Site:	IA02
Report To:	George Fletcher 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

GU-V-2 L1917436-03

Collected by: Mike H.
Collected date/time: 11/11/25 11:30
Received date/time: 11/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2639415	1	11/13/25 09:40	11/13/25 19:03	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2639270	1	11/13/25 16:05	11/13/25 16:10	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2641874	1	11/17/25 10:37	11/17/25 10:37	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2641589	1	11/16/25 22:27	11/16/25 22:27	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2639470	10	11/16/25 02:39	11/16/25 02:39	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2639443	1	11/14/25 13:31	12/03/25 23:56	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2639443	1	11/14/25 13:31	12/04/25 11:01	JPD	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Report Revision History

Level II Report - Version 1: 12/05/25 17:52
Level II Report - Version 2: 12/09/25 13:32

Project Comments

Revised Report: Revised to report L1917436-03 only to match the project, per request.

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Wet Chemistry by Method 9056A

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2639470	(MS) R4302100-4	Chloride

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2639470	(MS) R4302100-4	Chloride

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2639470	(MS) R4302100-6, (MSD) R4302100-7	Chloride

Metals (ICPMS) by Method 6020

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2639443	(MS) R4309694-4, L1917436-03	Calcium and Magnesium

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2639443	(MS) R4309694-4, (MSD) R4309694-5	Iron

Metals (ICPMS) by Method 6020

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2639443	(MSD) R4309694-5	Iron

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1280		10.0	1	11/13/2025 19:03	WG2639415

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	183		4.00	1	11/13/2025 16:10	WG2639270

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	449		20.0	1	11/17/2025 10:37	WG2641874

Sample Narrative:

L1917436-03 WG2641874: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	ND		0.100	1	11/16/2025 22:27	WG2641589

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	33.3		1.00	10	11/16/2025 02:39	WG2639470
Sulfate	530		5.00	10	11/16/2025 02:39	WG2639470

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Calcium	260	V	1.00	1	12/03/2025 23:56	WG2639443
Iron	1.89		0.100	1	12/04/2025 11:01	WG2639443
Potassium	14.5		1.00	1	12/03/2025 23:56	WG2639443
Magnesium	73.7	V	1.00	1	12/03/2025 23:56	WG2639443
Sodium	43.1		1.00	1	12/03/2025 23:56	WG2639443

Method Blank (MB)

(MB) R4301627-1 11/13/25 19:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	ND		2.82	10.0

L1917323-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917323-01 11/13/25 19:03 • (DUP) R4301627-3 11/13/25 19:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	10000	10200	1	1.38		10

L1917466-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917466-01 11/13/25 19:03 • (DUP) R4301627-4 11/13/25 19:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	535	553	1	3.31		10

Laboratory Control Sample (LCS)

(LCS) R4301627-2 11/13/25 19:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8510	96.7	90.0-110	

Method Blank (MB)

(MB) R4301079-1 11/13/25 16:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1917436-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1917436-03 11/13/25 16:10 • (DUP) R4301079-3 11/13/25 16:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	183	173	1	5.62		10

L1917473-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917473-01 11/13/25 16:10 • (DUP) R4301079-4 11/13/25 16:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	38.0	39.0	1	2.60		10

Laboratory Control Sample (LCS)

(LCS) R4301079-2 11/13/25 16:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	776	100	85.0-115	

Method Blank (MB)

(MB) R4302157-2 11/17/25 10:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1917436-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1917436-02 11/17/25 10:18 • (DUP) R4302157-3 11/17/25 10:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	522	528	1	1.18		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1918093-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1918093-03 11/17/25 11:50 • (DUP) R4302157-4 11/17/25 11:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	225	225	1	0.241		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4302157-1 11/17/25 10:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	103	103	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

QUALITY CONTROL SUMMARY

L1917436-03

Method Blank (MB)

(MB) R4301807-1 11/16/25 22:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1916718-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1916718-21 11/16/25 22:07 • (DUP) R4301807-3 11/16/25 22:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1917436-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1917436-02 11/16/25 22:16 • (DUP) R4301807-5 11/16/25 22:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	5.09	5.07	1	0.492		10

Laboratory Control Sample (LCS)

(LCS) R4301807-2 11/16/25 22:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.21	96.1	90.0-110	

L1916718-21 Original Sample (OS) • Matrix Spike (MS)

(OS) L1916718-21 11/16/25 22:07 • (MS) R4301807-4 11/16/25 22:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	4.90	98.0	1	90.0-110	

L1917436-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1917436-02 11/16/25 22:16 • (MS) R4301807-6 11/16/25 22:24 • (MSD) R4301807-7 11/16/25 22:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	5.09	9.77	9.78	93.5	93.8	1	90.0-110			0.143	10

Method Blank (MB)

(MB) R4302100-1 11/16/25 00:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.174	J	0.0519	1.00
Sulfate	0.151	J	0.0774	5.00

L1917442-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917442-01 11/16/25 03:13 • (DUP) R4302100-3 11/16/25 03:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	27.5	27.5	1	0.206		15

L1917448-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917448-01 11/16/25 03:47 • (DUP) R4302100-5 11/16/25 03:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	15.0	15.3	5	1.86	J	15

Sample Narrative:

OS: Dilution due to matrix impact on instrumentation at lower dilution

L1917442-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917442-01 11/17/25 22:38 • (DUP) R4302452-3 11/17/25 22:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	95.3	94.8	5	0.486		15

Laboratory Control Sample (LCS)

(LCS) R4302100-2 11/16/25 00:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	41.2	103	80.0-120	
Sulfate	40.0	41.4	103	80.0-120	

L1917442-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1917442-01 11/16/25 03:13 • (MS) R4302100-4 11/16/25 03:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	107	124	43.3	1	80.0-120	E J6
Sulfate	40.0	27.5	61.8	85.9	1	80.0-120	

L1917448-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1917448-01 11/16/25 03:47 • (MS) R4302100-6 11/16/25 04:10 • (MSD) R4302100-7 11/16/25 04:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	548	475	473	0.000	0.000	5	80.0-120	V	V	0.363	15
Sulfate	40.0	15.0	52.4	52.2	93.6	93.1	5	80.0-120			0.353	15

Sample Narrative:

OS: Dilution due to matrix impact on instrumentation at lower dilution

Method Blank (MB)

(MB) R4309694-1 12/03/25 23:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Calcium	0.0460	J	0.0460	1.00
Iron	0.0189	J	0.0150	0.100
Potassium	ND		0.0370	1.00
Magnesium	ND		0.100	1.00
Sodium	ND		0.110	1.00

Laboratory Control Sample (LCS)

(LCS) R4309694-2 12/03/25 23:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	5.00	5.27	105	80.0-120	
Iron	1.00	1.08	108	80.0-120	
Potassium	5.00	5.17	103	80.0-120	
Magnesium	5.00	5.50	110	80.0-120	
Sodium	5.00	5.37	107	80.0-120	

L1917436-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1917436-03 12/03/25 23:56 • (MS) R4309694-4 12/04/25 00:02 • (MSD) R4309694-5 12/04/25 00:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	5.00	260	264	265	73.2	88.6	1	75.0-125	V		0.291	20
Iron	1.00	1.85	3.23	5.30	138	345	1	75.0-125	J5	J3 J5	48.7	20
Potassium	5.00	14.5	19.6	19.8	103	106	1	75.0-125			0.617	20
Magnesium	5.00	73.7	81.4	79.1	152	108	1	75.0-125	V		2.79	20
Sodium	5.00	43.1	48.0	47.5	98.8	87.9	1	75.0-125			1.13	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
GU-VIII-1 Background

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
200

Lab Project #
WMCENIA-00010

Collected by (print):
Mike Hamer

Site/Facility ID #
IA02

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK,CL,SO4 125mlHDPE-NoPres	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	TDS 1L-HDPE NoPres	TSS 1L-HDPE NoPres	V524LL 40mlAmb-AscAcid+HCl	V524LL 40mlAmb-HCl-Blk	V8260ULL 40mlAmb-HCl	V8260ULL 40mlAmb-HCl-Blk		Remarks	Sample # (lab only)
Trip Blank		GW				2							X		X			-01
GU-VIII-1	G	GW		11/11/25	1200	11	X	X	X	X	X	X		X				-02
GU-V-2	G			11/11/25	1130	5	X	X	X	X	X							-03

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1917436

C206

Acctnum: **WMCENIA**
Template: **T237451**
Prelogin: **P1188218**
PM: **3564 - Chad A Upchurch**
PB: JD 11.3.25
Shipped Via: **FedEX Standard**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7420 1664 6697

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: X Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
	11/11/25	1600	FedEx	2
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 16
				7.4 0.9 0205
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				11/12/25 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Appendix D Otter Creek Statistical Report

Results of the Ground Water Statistics

for Central Disposal Systems Landfill

Annual Monitoring Event in 2025

Prepared for:
Central Disposal Systems Landfill, a
Waste Management Company
Lake Mills, Iowa

Prepared by:
Jeffrey A. Holmgren
Otter Creek Environmental Services, L.L.C.
Elgin, IL
(847) 464-1355

December 2025

INTRODUCTION

This report contains the results of the statistical analyses used to evaluate the ground water data obtained during the annual monitoring event in 2025 at Central Disposal Systems Landfill in Lake Mills, Iowa. The ground water at Central Disposal Systems Landfill is monitored by background wells MW-110, MW-123, and MW-2A, downgradient wells MW-11(R), MW-117, MW-118, MW-132, MW-133, and MW-7A, and groundwater underdrain GU-V-2. Groundwater and underdrain sample points were sampled during November 3-11, 2025 and analyzed for the optimized detection monitoring parameters and the supplemental monitoring parameters.

The statistical plan is designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. The intrawell methodology is described and then applied to the Central Disposal Systems Landfill data. The statistical plan conforms with IAC 567, Chapter 113.10 and the USEPA guidance document ("*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Unified Guidance"*, March 2009).

Ground Water Monitoring Program

The groundwater monitoring network for Central Disposal Systems Landfill includes upgradient wells MW-110, MW123, and MW-2A and downgradient wells MW-11R, MW-117, MW-118, MW-132, MW-133, MW-7A, and GU-V-2. Each of the groundwater monitoring wells is to be sampled and analyzed for the optimized detection monitoring parameters which include alkalinity, chloride, ammonia, and sodium. Supplemental parameters monitored annually include calcium, iron, magnesium, potassium, sulfate, total dissolved solids (TDS), and total suspended solids (TSS). Additionally, trace metals and VOCs (IDNR Appendix I parameters) will be monitored once every three years. The ground water data obtained during the November 2025 monitoring event are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. The intrawell control chart method was applied to the Central Disposal Systems Landfill data using the DUMPStat® statistical program. DUMPStat® is a program for the statistical analysis of groundwater monitoring data using methods described in "Statistical Methods for Groundwater Monitoring" by Dr. Robert D. Gibbons. The DUMPStat program is completely consistent with all USEPA regulations and guidance and the ASTM D6312-98 guidance.

Intrawell statistics

Intrawell statistics are appropriate for facilities where the upgradient wells do not accurately characterize the natural ground water conditions downgradient from the facility. This may be due to different hydrogeological conditions where the wells are screened, having too few upgradient wells to account for the spatial variability, or the site exhibiting no definable hydraulic gradient. Intrawell statistics compare

new measurements to the historical data at each ground water monitoring well independently. It is recommended that at least eight background samples be obtained prior to performing the statistics.

The most useful technique for intrawell comparisons is the combined Shewhart-CUSUM control chart. This control chart procedure is useful because it will detect releases both in terms of the constituent concentration and cumulative increases. This method is also extremely sensitive to sudden and gradual releases. A requirement for constructing these control charts is that the parameter is detected at a frequency greater than or equal to 25%, otherwise the data variance is not properly defined.

The combined Shewhart-CUSUM control chart assumes that the data are independent and normally distributed with a fixed mean and a constant variance. Independent data is much more critical than the normality assumption. To achieve independence, it is recommended that data are collected no more frequently than quarterly to account for seasonal variation. The combined Shewhart-CUSUM control chart is extremely robust to deviations from normality. Because the control charts do not use a specific multiplier based on a normal distribution, it is more conservative to assume normality.

It is recommended that at least eight rounds of data be available to provide a reliable estimate of the mean and standard deviation of the parameter concentration, although the control charts will be generated with as few as four data points. Having only four data points may produce greater uncertainty in the mean and standard deviation of the background data, leading to higher control limits, thus having a potentially high false negative rate.

Many groundwater monitoring parameters are not detected at a frequency great enough to generate the combined Shewhart-CUSUM control charts. For constituents that are detected less than 25% of the time at a particular well, the data should be plotted as a time series until a sufficient number of data points are available to provide a 99% confidence nonparametric prediction limit. Thirteen independent measurements (with 1 resample) are necessary to achieve a 99% confidence (1% false positive rate) nonparametric prediction limit. Eight independent measurements (for pass 1 of 2 resamples) are necessary to achieve a 99% confidence nonparametric prediction limit. The nonparametric prediction limit is the largest determination out of the data set collected for that well and parameter. If the detection frequency is 0% after thirteen samples have been collected, the practical quantitation limit (PQL) becomes the nonparametric prediction limit.

In developing the statistical background, the historical data must be thoroughly screened for anomalous data due to sampling error, analytical error, or simply by chance alone. An erroneous data point, if not removed prior to the mean and variance computations, would yield a larger control limit thus increasing the false negative rate. The DUMPStat® program screens for outliers using the Dixon test. If the Dixon test indicates an outlier, the value is compared to three times the median value for intrawell analyses. If the value fails both criteria of the two-stage screening, the value is considered a statistical outlier and will not be used in the mean and variance determinations. Anomalous data will still be plotted on the graphs (with a unique symbol) but will not be included in the calculations.

The verification resample plan is an integral function of the statistical plan to reduce the probability that anomalous data obtained after the background has been established, is indicative of a landfill release.

The background data for each well and constituent is tested for existing trends using Sen's nonparametric estimate of trend. If contamination exists prior to completing the background, the control limits could be potentially high and this control chart method would not be able to detect an increasing trend unless the increase is severe.

Results of the Intrawell Statistics

Optimized Detection Monitoring Parameters

The optimized detection monitoring parameters (alkalinity, chloride, ammonia, and sodium) data from annual wells MW-110, MW117, MW-118, MW-123, MW-132, MW-133, MW-2A, MW-7A, and GU-V-2 were evaluated using the combined Shewhart-CUSUM control chart method following the November 2025 monitoring event. The previous background included data obtained through May 2019 for all wells. In the previous background range, there was insufficient data to determine control limits for some parameters and others are determined using fewer than the recommended minimum of eight data points.

As ground water monitoring at a municipal solid waste facility proceeds, it is recommended to update background data sets periodically with valid detection monitoring results that are representative of background groundwater quality not affected by leakage from a monitored unit. Failure to update background will exclude factors such as natural temporal variation, changes in field or laboratory methodologies, and changes in the water table due to meteorological conditions or other influences. Since there have been no exceedances attributed to the landfill and several cases of insufficient data, the background was updated to include data obtained through 2023 for all wells.

A summary of the intrawell statistics is included in Attachment B, Table 1 "Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts." The control charts or time series graphs follow the summary table. For the parameters compared using the combined Shewhart-CUSUM control chart, there were no control limit exceedances detected. No increasing trends were detected in the background data.

A control chart factor was selected to provide a balance of the site-wide false positive and false negative rates. A statistical power curve indicates the expected false assessments for the site as a whole. Given an accepted resample verification plan of "pass one of one" resamples, the number of statistical comparisons, and the number of background data points, the optimal factor h = SCL = 6 for $N < 12$ and h = SCL = 6 for $N \geq 12$. Using this factor for intrawell analysis, the site-wide false positive rate is 3% and the test becomes sensitive to 4 standard deviation units over background.

Results of the Supplemental Monitoring Parameters

The supplemental monitoring parameters (calcium, iron, magnesium, potassium, sulfate, TDS, and TSS) at sample points MW-110, MW117, MW-118, MW-123, MW-132, MW-133, MW-2A, MW-7A, and GU-V-2 were plotted as time series in Attachment C.

Attachment A

Ground Water Data

Table 1

Analytical Data Summary for 5/29/2025

Constituents	Units	GU-VIII-1	MW-134	MW-135	MW-136
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<.3	<.3	<.3	<.3
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1
1,1-dichloroethene	ug/L	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<.0058	<.0058	<.0058	<.0058
1,2-dibromo-3-chloropropane	ug/L	<.2	<.2	<.2	<.2
1,2-dibromoethane	ug/L	<.05	<.05	<.05	<.05
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1
2-butanone (mek)	ug/L	<10	<10	<10	<10
2-hexanone	ug/L	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5
Acetone	ug/L	<25	<25	<25	<25
Acrylonitrile	ug/L	<.32	<.32	<.32	<.32
Alkalinity, total (as caco3)	mg/L	486	479	398	446
Ammonia as n	mg/L	6.200	.821	<.100	.425
Antimony, total	ug/L	<2	<2	<2	<2
Arsenic, total	ug/L	2.69	29.30	<2.00	8.01
Barium, total	ug/L	53.6	56.9	138.0	113.0
Benzene	ug/L	<1	<1	<1	<1
Beryllium, total	ug/L	<2	<2	<2	<2
Bromochloromethane	ug/L	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1
Bromomethane	ug/L	<2.5	<2.5	<2.5	<2.5
Cadmium, total	ug/L	<1	<1	<1	<1
Calcium, total	mg/L	354	223	101	120
Carbon disulfide	ug/L	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1
Chloride	mg/L	34.90	7.51	19.40	9.30
Chlorobenzene	ug/L	<1	<1	<1	<1
Chloroethane	ug/L	<2.5	<2.5	<2.5	<2.5
Chloroform	ug/L	<1	<1	<1	<1
Chloromethane	ug/L	<1.25	<1.25	<1.25	<1.25
Chromium, total	ug/L	<2.00	4.89	<2.00	2.06
Cis-1,2-dichloroethene	ug/L	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1
Cobalt, total	ug/L	6.06	<2.00	<2.00	<2.00
Copper, total	ug/L	<5.00	6.40	<5.00	6.81
Depth to water	FT		31.70	48.98	45.12
Dibromochloromethane	ug/L	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1
Iodomethane	ug/L	<10	<10	<10	<10
Iron, total	ug/L	1360	7830	515	1390
Lead, total	ug/L	<2.00	2.21	2.06	<2.00
Magnesium, total	mg/L	105.0	57.9	33.4	34.7
Methylene chloride	ug/L	<2.5	<2.5	<2.5	<2.5
Nickel, total	ug/L	16.80	38.80	<2.00	2.95
pH	SU	7.24	7.36	7.46	7.26

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 5/29/2025

Constituents	Units	GU-VIII-1	MW-134	MW-135	MW-136
Potassium, total	mg/L	14.00	10.70	7.02	7.55
Selenium, total	ug/L	<2	<2	<2	<2
Silver, total	ug/L	<2	<2	<2	<2
Sodium, total	mg/L	40.6	127.0	40.7	58.6
Specific conductance, field	UMHOS/CM	2295			
Styrene	ug/L	<1	<1	<1	<1
Sulfate	mg/L	947.0	691.0	76.1	113.0
Tetrachloroethene	ug/L	<1	<1	<1	<1
Thallium, total	ug/L	<2	<2	<2	<2
Toluene	ug/L	<1	<1	<1	<1
Total dissolved solids	mg/L	1830	1560	465	642
Total suspended solids	mg/L	2.7	80.8	32.0	56.8
Trans-1,2-dichloroethene	ug/L	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<1	<1	<1	<1
Trichloroethene	ug/L	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<2.5	<2.5	<2.5	<2.5
Turbidity (field)	NTU	1	50	40	60
Vanadium, total	ug/L	<5.00	<5.00	<5.00	5.55
Vinyl acetate	ug/L	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1
Water temperature (field)	DEGREES C	16.1	12.3	11.0	10.2
Xylenes, total	ug/L	<1.5	<1.5	<1.5	<1.5
Zinc, total	ug/L	<25	<25	<25	<25

* - The displayed value is the arithmetic mean of multiple database matches.

Table 2

Analytical Data Summary for 11/3/2025

Constituents	Units	MW-110	MW-11R	MW-132	MW-133	MW-7A
1,1,1,2-tetrachloroethane	ug/L		<1			
1,1,1-trichloroethane	ug/L		<1			
1,1,2,2-tetrachloroethane	ug/L		<.3			
1,1,2-trichloroethane	ug/L		<1			
1,1-dichloroethane	ug/L		<1			
1,1-dichloroethene	ug/L		<1			
1,2,3-trichloropropane	ug/L		<.0058			
1,2-dibromo-3-chloropropane	ug/L		<.2			
1,2-dibromoethane	ug/L		<.05			
1,2-dichlorobenzene	ug/L		<1			
1,2-dichloroethane	ug/L		<1			
1,2-dichloropropane	ug/L		<1			
1,4-dichlorobenzene	ug/L		<1			
2-butanone (mek)	ug/L		<10			
2-hexanone	ug/L		<5			
4-methyl-2-pentanone (mibk)	ug/L		<5			
Acetone	ug/L		<25			
Acrylonitrile	ug/L		<.32			
Alkalinity, total (as caco3)	mg/L	472	408	501	561	425
Ammonia as n	mg/L	.122	.730	.357	.591	<.100
Antimony, total	ug/L		<2			
Arsenic, total	ug/L		27.2			
Barium, total	ug/L		101			
Benzene	ug/L		<1			
Beryllium, total	ug/L		<2			
Bromochloromethane	ug/L		<1			
Bromodichloromethane	ug/L		<1			
Bromoform	ug/L		<1			
Bromomethane	ug/L		<2.5			
Cadmium, total	ug/L		<1			
Calcium, total	mg/L	145	158	305	360	115
Carbon disulfide	ug/L		<1			
Carbon tetrachloride	ug/L		<1			
Chloride	mg/L	1.83	2.68	4.03	10.10	7.05
Chlorobenzene	ug/L		<1			
Chloroethane	ug/L		<2.5			
Chloroform	ug/L		<1			
Chloromethane	ug/L		<1.25			
Chromium, total	ug/L		<2			
Cis-1,2-dichloroethene	ug/L		<1			
Cis-1,3-dichloropropene	ug/L		<1			
Cobalt, total	ug/L		<2			
Copper, total	ug/L		<5			
Depth to water	FT		50.19			
Dibromochloromethane	ug/L		<1			
Dibromomethane	ug/L		<1			
Dissolved Oxygen (on-site)	mg/L	1.6		2.7	1.3	2.1
eH/ORP (On Site)	mV	-6.2		10.2	-1.6	
Ethylbenzene	ug/L		<1			
Iodomethane	ug/L		<10			
Iron, total	ug/L	159	532	1140	4560	2240
Lead, total	ug/L		<2			
Magnesium, total	mg/L	34.1	43.9	79.5	103.0	29.6
Methylene chloride	ug/L		<2.5			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 2

Analytical Data Summary for 11/3/2025

Constituents	Units	MW-110	MW-11R	MW-132	MW-133	MW-7A
Nickel, total	ug/L		4.08			
pH	SU	7.36	7.24	7.19	6.92	7.51
Potassium, total	mg/L	7.97	8.04	11.00	10.50	7.36
Selenium, total	ug/L		<2			
Silver, total	ug/L		<2			
Sodium, total	mg/L	73.1	47.3	52.1	28.8	40.6
Specific conductance, field	UMHOS/CM	1078	1098	1767	2124	831
Styrene	ug/L		<1			
Sulfate	mg/L	189.0	233.0	653.0	693.0	60.2
Tetrachloroethene	ug/L		<1			
Thallium, total	ug/L		<2			
Toluene	ug/L		<1			
Total dissolved solids	mg/L	737	779	1420	1540	543
Total suspended solids	mg/L	<4.0	8.0	14.7	11.2	46.5
Trans-1,2-dichloroethene	ug/L		<1			
Trans-1,3-dichloropropene	ug/L		<1			
Trans-1,4-dichloro-2-butene	ug/L		<1			
Trichloroethene	ug/L		<1			
Trichlorofluoromethane	ug/L		<2.5			
Turbidity (field)	NTU	9.7	15.7	16.0	18.3	13.6
Vanadium, total	ug/L		<5			
Vinyl acetate	ug/L		<5			
Vinyl chloride	ug/L		<1			
Water temperature (field)	DEGREES C	9.5	10.2	10.9	10.6	9.6
Xylenes, total	ug/L		<1.5			
Zinc, total	ug/L		<25			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 3

Analytical Data Summary for 11/4/2025

Constituents	Units	MW-117	MW-118	MW-123	MW-134	MW-135	MW-136	MW-2A
1,1,1,2-tetrachloroethane	ug/L				<1	<1	<1	
1,1,1-trichloroethane	ug/L				<1	<1	<1	
1,1,2,2-tetrachloroethane	ug/L				<.3	<.3	<.3	
1,1,2-trichloroethane	ug/L				<1	<1	<1	
1,1-dichloroethane	ug/L				<1	<1	<1	
1,1-dichloroethene	ug/L				<1	<1	<1	
1,2,3-trichloropropane	ug/L				<.0058	<.0058	<.0058	
1,2-dibromo-3-chloropropane	ug/L				<.2	<.2	<.2	
1,2-dibromoethane	ug/L				<.05	<.05	<.05	
1,2-dichlorobenzene	ug/L				<1	<1	<1	
1,2-dichloroethane	ug/L				<1	<1	<1	
1,2-dichloropropane	ug/L				<1	<1	<1	
1,4-dichlorobenzene	ug/L				<1	<1	<1	
2-butanone (mek)	ug/L				<10	<10	<10	
2-hexanone	ug/L				<5	<5	<5	
4-methyl-2-pentanone (mibk)	ug/L				<5	<5	<5	
Acetone	ug/L				<25	<25	<25	
Acrylonitrile	ug/L				<.32	<.32	<.32	
Alkalinity, total (as caco3)	mg/L	486	445	426	469	370	474	507
Ammonia as n	mg/L	.754	.520	.500	.780	<.100	.429	.197
Antimony, total	ug/L				<2	<2	<2	
Arsenic, total	ug/L				36.00	<2.00	7.87	
Barium, total	ug/L				26.4	119.0	117.0	
Benzene	ug/L				<1	<1	<1	
Beryllium, total	ug/L				<2	<2	<2	
Bromochloromethane	ug/L				<1	<1	<1	
Bromodichloromethane	ug/L				<1	<1	<1	
Bromoform	ug/L				<1	<1	<1	
Bromomethane	ug/L				<2.5	<2.5	<2.5	
Cadmium, total	ug/L				<1	<1	<1	
Calcium, total	mg/L	161	135	137	238	101	134	190
Carbon disulfide	ug/L				<1	<1	<1	
Carbon tetrachloride	ug/L				<1	<1	<1	
Chloride	mg/L	2.97	1.23	3.19	5.36	17.40	3.23	1.78
Chlorobenzene	ug/L				<1	<1	<1	
Chloroethane	ug/L				<2.5	<2.5	<2.5	
Chloroform	ug/L				<1	<1	<1	
Chloromethane	ug/L				<1.25	<1.25	<1.25	
Chromium, total	ug/L				<2	<2	<2	
Cis-1,2-dichloroethene	ug/L				<1	<1	<1	
Cis-1,3-dichloropropene	ug/L				<1	<1	<1	
Cobalt, total	ug/L				<2	<2	<2	
Copper, total	ug/L				<5	<5	<5	
Depth to water	FT				30.40	47.70	44.47	
Dibromochloromethane	ug/L				<1	<1	<1	
Dibromomethane	ug/L				<1	<1	<1	
Dissolved Oxygen (on-site)	mg/L	.2	.4	.9				.9
eH/ORP (On Site)	mV	77.0	175.0	-32.8				57.8
Ethylbenzene	ug/L				<1	<1	<1	
Iodomethane	ug/L				<10	<10	<10	
Iron, total	ug/L	1830	903	1860	5390	146	100	326
Lead, total	ug/L				<2	<2	<2	
Magnesium, total	mg/L	40.3	42.7	37.1	66.1	36.9	38.5	47.4
Methylene chloride	ug/L				<2.5	<2.5	<2.5	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 3

Analytical Data Summary for 11/4/2025

Constituents	Units	MW-117	MW-118	MW-123	MW-134	MW-135	MW-136	MW-2A
Nickel, total	ug/L				<2	<2	<2	
pH	SU	7.40	7.40	7.23	7.80	7.95	7.37	7.07
Potassium, total	mg/L	8.82	8.28	6.35	11.00	7.45	7.70	9.54
Selenium, total	ug/L				<2	<2	<2	
Silver, total	ug/L				<2	<2	<2	
Sodium, total	mg/L	69.9	57.4	27.4	117.0	41.5	50.5	77.1
Specific conductance, field	UMHOS/CM	1289	1154	902	1897	939	994	1319
Styrene	ug/L				<1	<1	<1	
Sulfate	mg/L	229.0	182.0	124.0	548.0	82.9	128.0	310.0
Tetrachloroethene	ug/L				<1	<1	<1	
Thallium, total	ug/L				<2	<2	<2	
Toluene	ug/L				<1	<1	<1	
Total dissolved solids	mg/L	786	697	591	1310	533	640	928
Total suspended solids	mg/L	22.8	<4.0	<4.0	64.0	40.2	8.6	10.8
Trans-1,2-dichloroethene	ug/L				<1	<1	<1	
Trans-1,3-dichloropropene	ug/L				<1	<1	<1	
Trans-1,4-dichloro-2-butene	ug/L				<1	<1	<1	
Trichloroethene	ug/L				<1	<1	<1	
Trichlorofluoromethane	ug/L				<2.5	<2.5	<2.5	
Turbidity (field)	NTU	16.0	1.0	8.6	40.0	21.0	18.2	11.8
Vanadium, total	ug/L				<5	<5	<5	
Vinyl acetate	ug/L				<5	<5	<5	
Vinyl chloride	ug/L				<1	<1	<1	
Water temperature (field)	DEGREES C	10.2	9.3	9.3	13.5	9.8	11.5	9.7
Xylenes, total	ug/L				<1.5	<1.5	<1.5	
Zinc, total	ug/L				<25	<25	<25	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 4

Analytical Data Summary for 11/11/2025

Constituents	Units	GU-V-2	GU-VIII-1
1,1,1,2-tetrachloroethane	ug/L		<1
1,1,1-trichloroethane	ug/L		<1
1,1,2,2-tetrachloroethane	ug/L		<.3
1,1,2-trichloroethane	ug/L		<1
1,1-dichloroethane	ug/L		<1
1,1-dichloroethene	ug/L		<1
1,2,3-trichloropropane	ug/L		<.0058
1,2-dibromo-3-chloropropane	ug/L		<.2
1,2-dibromoethane	ug/L		<.05
1,2-dichlorobenzene	ug/L		<1
1,2-dichloroethane	ug/L		<1
1,2-dichloropropane	ug/L		<1
1,4-dichlorobenzene	ug/L		<1
2-butanone (mek)	ug/L		<10
2-hexanone	ug/L		<5
4-methyl-2-pentanone (mibk)	ug/L		<5
Acetone	ug/L		<25
Acrylonitrile	ug/L		<.32
Alkalinity, total (as caco3)	mg/L	449	522
Ammonia as n	mg/L	<.10	5.09
Antimony, total	ug/L		<2
Arsenic, total	ug/L		3.98
Barium, total	ug/L		53.6
Benzene	ug/L		<1
Beryllium, total	ug/L		<2
Bromochloromethane	ug/L		<1
Bromodichloromethane	ug/L		<1
Bromoform	ug/L		<1
Bromomethane	ug/L		<2.5
Cadmium, total	ug/L		<1
Calcium, total	mg/L	260	305
Carbon disulfide	ug/L		<1
Carbon tetrachloride	ug/L		<1
Chloride	mg/L	33.3	41.4
Chlorobenzene	ug/L		<1
Chloroethane	ug/L		<2.5
Chloroform	ug/L		<1
Chloromethane	ug/L		<1.25
Chromium, total	ug/L		<2
Cis-1,2-dichloroethene	ug/L		<1
Cis-1,3-dichloropropene	ug/L		<1
Cobalt, total	ug/L		4.92
Copper, total	ug/L		<5
Dibromochloromethane	ug/L		<1
Dibromomethane	ug/L		<1
Ethylbenzene	ug/L		<1
Iodomethane	ug/L		<10
Iron, total	ug/L	1890	1420
Lead, total	ug/L		<2
Magnesium, total	mg/L	73.7	92.5
Methylene chloride	ug/L		<2.5
Nickel, total	ug/L		16.8
Potassium, total	mg/L	14.5	13.8
Selenium, total	ug/L		<2
Silver, total	ug/L		<2
Sodium, total	mg/L	43.1	48.2
Styrene	ug/L		<1
Sulfate	mg/L	530	723
Tetrachloroethene	ug/L		<1
Thallium, total	ug/L		<2
Toluene	ug/L		<1
Total dissolved solids	mg/L	1280	1510
Total suspended solids	mg/L	183	<4
Trans-1,2-dichloroethene	ug/L		<1
Trans-1,3-dichloropropene	ug/L		<1
Trans-1,4-dichloro-2-butene	ug/L		<1
Trichloroethene	ug/L		<1
Trichlorofluoromethane	ug/L		<2.5
Vanadium, total	ug/L		<5
Vinyl acetate	ug/L		<5
Vinyl chloride	ug/L		<1
Xylenes, total	ug/L		<1.5
Zinc, total	ug/L		<25

* - The displayed value is the arithmetic mean of multiple database matches.

Attachment B

Summary Tables and Graphs for the Intrawell Comparisons
Detection Monitoring Parameters

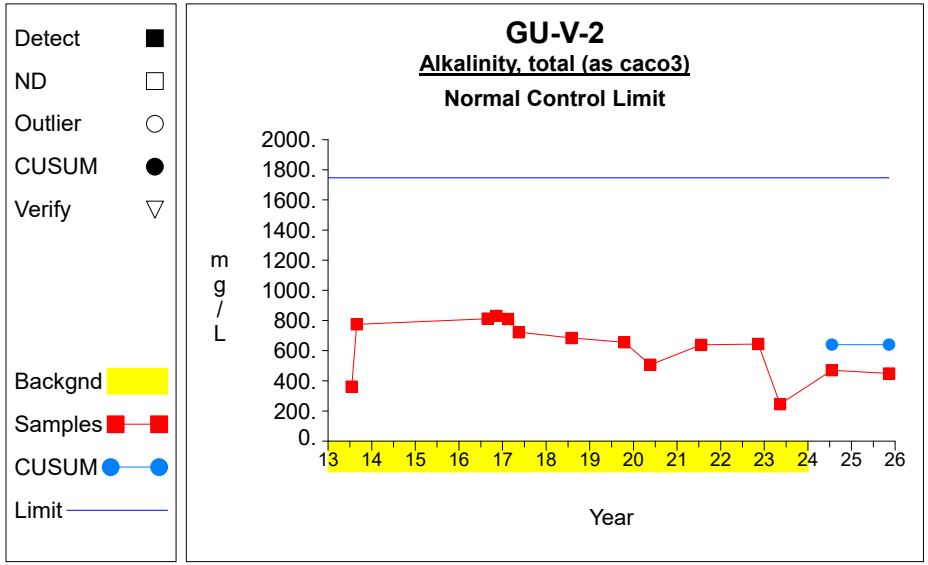
Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts

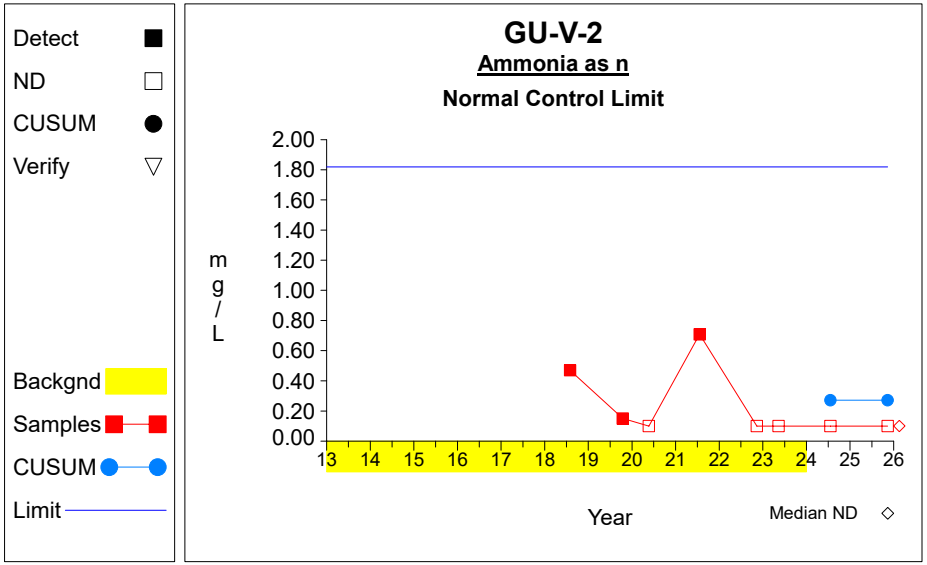
Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf
Alkalinity, total (as caco3)	mg/L	GU-V-2	12	2	14	640.3333	184.3777	470.0000	449.0000	640.3333	640.3333	1746.5998	normal	
Ammonia as n	mg/L	GU-V-2	6	2	8	0.2713	0.2580	0.1000	0.1000	0.2713	0.2713	1.8196	normal	
Chloride	mg/L	GU-V-2	12	2	14	49.6333	24.0629	33.1000	33.3000	49.6333	49.6333	194.0109	normal	
Sodium, total	mg/L	GU-V-2	12	2	14	43.0000	2.8470	45.1000	43.1000	43.0000	43.0000	60.0820	normal	
Alkalinity, total (as caco3)	mg/L	MW-110	20	2	23	389.7500	44.7953	422.0000	472.0000	389.7500	438.4035	658.5218	normal	
Ammonia as n	mg/L	MW-110	25	2	38	0.3297	1.2501	0.9250	0.1220	0.3297	0.3297	7.8302	normal	
Chloride	mg/L	MW-110	30	2	42	3.9810	1.5811	2.2900	1.8300	3.9810	3.9810	13.4678	normal	
Sodium, total	mg/L	MW-110	14	2	16	61.6000	10.9263	56.2000	73.1000	61.6000	64.9053	127.1575	normal	
Alkalinity, total (as caco3)	mg/L	MW-117	29	2	31	483.4483	28.7509	477.0000	486.0000	483.4483	483.4483	655.9536	normal	
Ammonia as n	mg/L	MW-117	26	2	29	0.7301	0.2792	0.2710	0.7540	0.7301	0.7301	2.4051	normal	
Chloride	mg/L	MW-117	29	2	32	5.1283	2.7368	12.4000	2.9700	10.3474	6.1366	21.5489	normal	
Sodium, total	mg/L	MW-117	11	2	13	71.6636	3.1872	73.4000	69.9000	71.6636	71.6636	90.7871	normal	
Alkalinity, total (as caco3)	mg/L	MW-118	29	2	31	447.5172	29.7281	451.0000	445.0000	447.5172	447.5172	625.8857	normal	
Ammonia as n	mg/L	MW-118	26	2	29	0.5905	0.1743	0.1000	0.5200	0.5905	0.5905	1.6365	normal	
Chloride	mg/L	MW-118	29	2	32	1.3628	1.0376	1.0000	1.2300	1.3628	1.3628	7.5881	normal	
Sodium, total	mg/L	MW-118	11	2	13	57.8727	1.9298	58.8000	57.4000	57.8727	57.8727	69.4516	normal	
Alkalinity, total (as caco3)	mg/L	MW-123	39	2	41	421.3333	37.7996	436.0000	426.0000	421.3333	421.3333	648.1307	normal	
Ammonia as n	mg/L	MW-123	35	2	38	0.4944	0.1015	0.4640	0.5000	0.4944	0.4944	1.1036	normal	
Chloride	mg/L	MW-123	38	2	41	2.3068	0.5985	3.4000	3.1900	2.9511	3.3854	5.8979	normal	
Sodium, total	mg/L	MW-123	11	2	13	27.3727	0.8707	27.4000	27.4000	27.3727	27.3727	32.5971	normal	
Alkalinity, total (as caco3)	mg/L	MW-132	14	2	16	492.4286	36.5760	496.0000	501.0000	492.4286	492.4286	711.8844	normal	
Ammonia as n	mg/L	MW-132	8	2	10	0.4645	0.0926	0.2160	0.3570	0.4645	0.4645	1.0204	normal	
Chloride	mg/L	MW-132	13	2	15	7.9108	2.0426	3.9100	4.0300	7.9108	7.9108	20.1661	normal	
Sodium, total	mg/L	MW-132	14	2	16	62.5429	10.6864	61.3000	52.1000	62.5429	62.5429	126.6614	normal	
Alkalinity, total (as caco3)	mg/L	MW-133	15	2	17	513.2667	52.2145	512.0000	561.0000	513.2667	521.8391	826.5536	normal	
Ammonia as n	mg/L	MW-133	8	2	10	0.4673	0.1346	0.4120	0.5910	0.4673	0.4673	1.2751	normal	
Chloride	mg/L	MW-133	14	2	16	10.7971	3.4445	10.4000	10.1000	10.7971	10.7971	31.4641	normal	
Sodium, total	mg/L	MW-133	15	2	17	29.2200	8.1004	23.8000	28.8000	29.2200	29.2200	77.8222	normal	
Alkalinity, total (as caco3)	mg/L	MW-2A	13	2	16	504.7692	16.7539	530.0000	507.0000	517.4346	507.1000	605.2925	normal	
Ammonia as n	mg/L	MW-2A	10	2	12	0.3189	0.2158	0.5930	0.1970	0.3772	0.3189	1.6135	normal	
Chloride	mg/L	MW-2A	15	2	17	1.8480	1.0063	1.2400	1.7800	1.8480	1.8480	7.8855	normal	
Sodium, total	mg/L	MW-2A	15	2	17	75.1733	2.7902	74.9000	77.1000	75.1733	75.1733	91.9142	normal	
Alkalinity, total (as caco3)	mg/L	MW-7A	21	2	23	322.0619	112.4219	466.0000	425.0000	381.6836	400.3053	996.5932	normal	
Ammonia as n	mg/L	MW-7A	24	2	31	0.2879	0.2016	0.2110	0.1000	0.2879	0.2879	1.4975	normal	
Chloride	mg/L	MW-7A	31	2	38	6.1184	10.6350	1.0000	7.0500	6.1184	6.1184	69.9287	normal	
Sodium, total	mg/L	MW-7A	22	2	24	40.7591	4.8562	40.8000	40.6000	40.7591	40.7591	69.8962	normal	

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

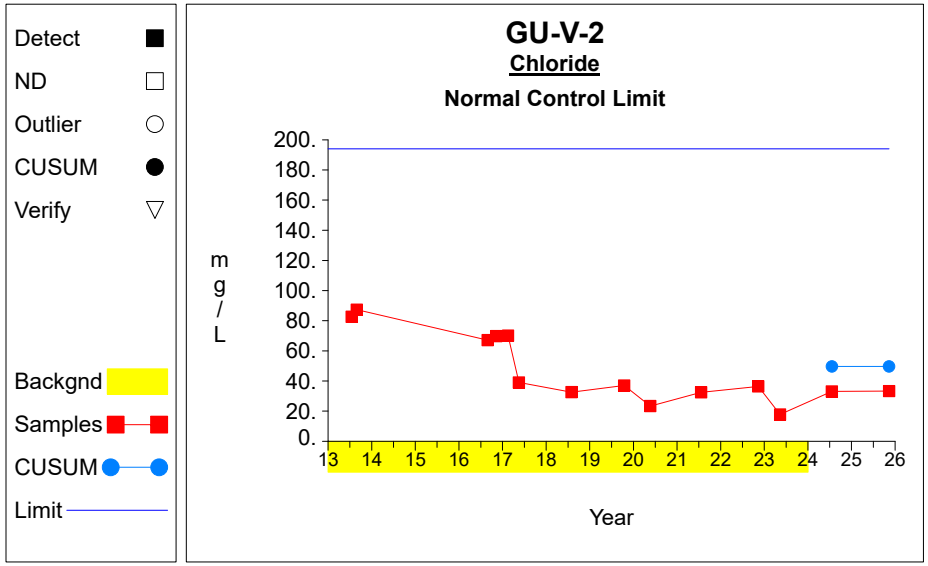
Intra-Well Control Charts / Prediction Limits



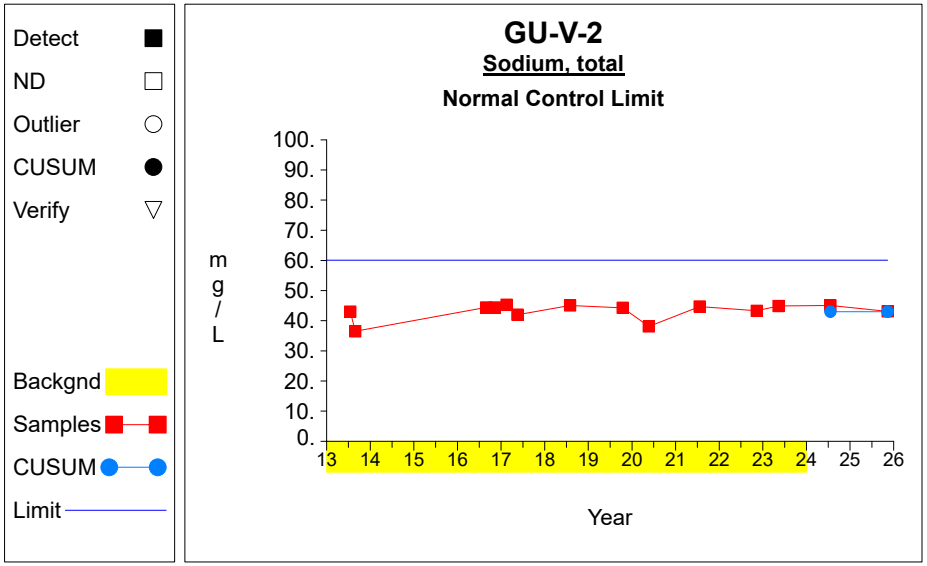
Graph 1



Graph 2



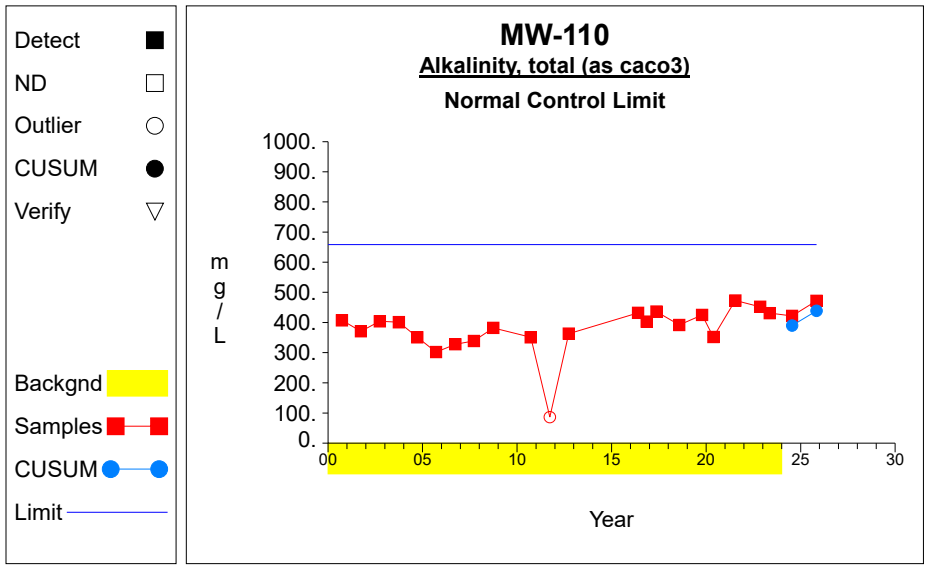
Graph 3



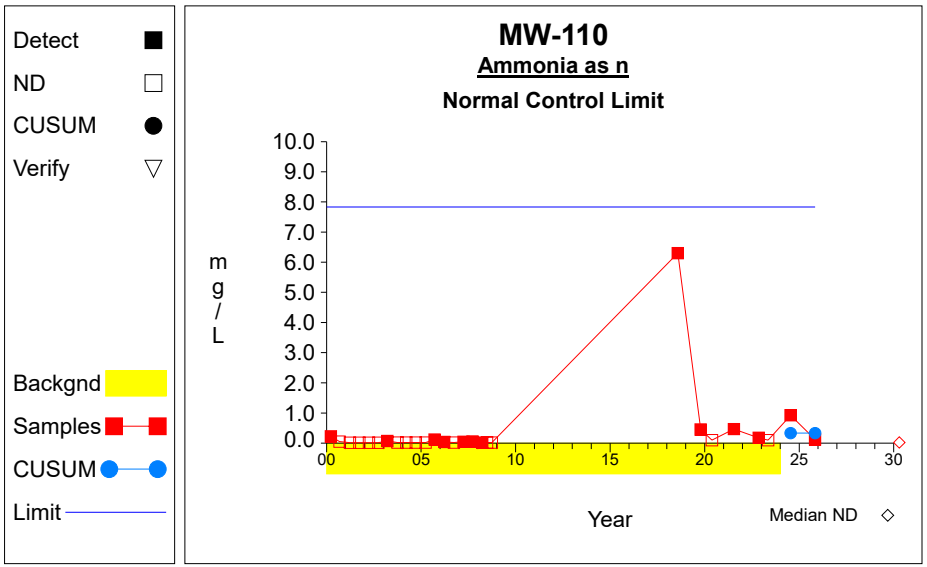
Graph 4

Prepared by: Otter Creek Environmental

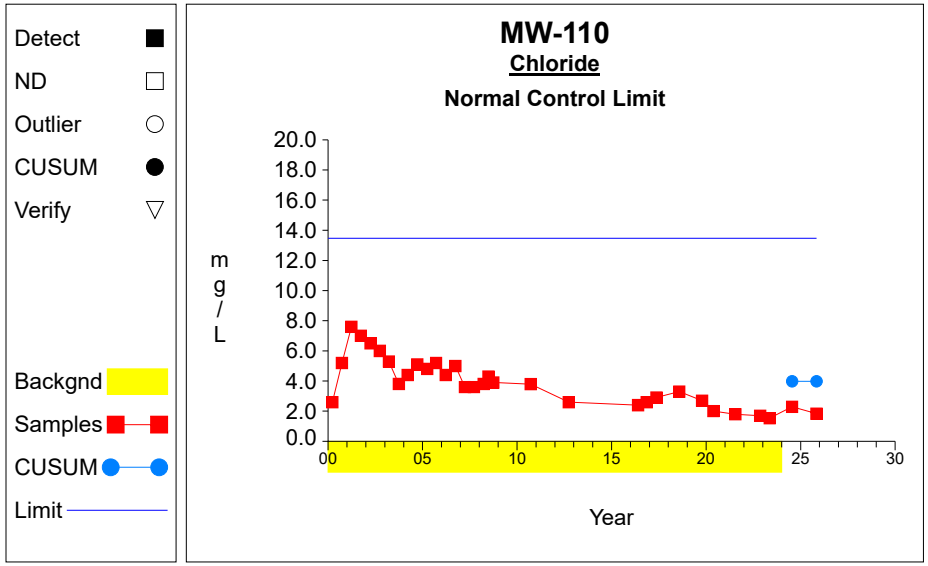
Intra-Well Control Charts / Prediction Limits



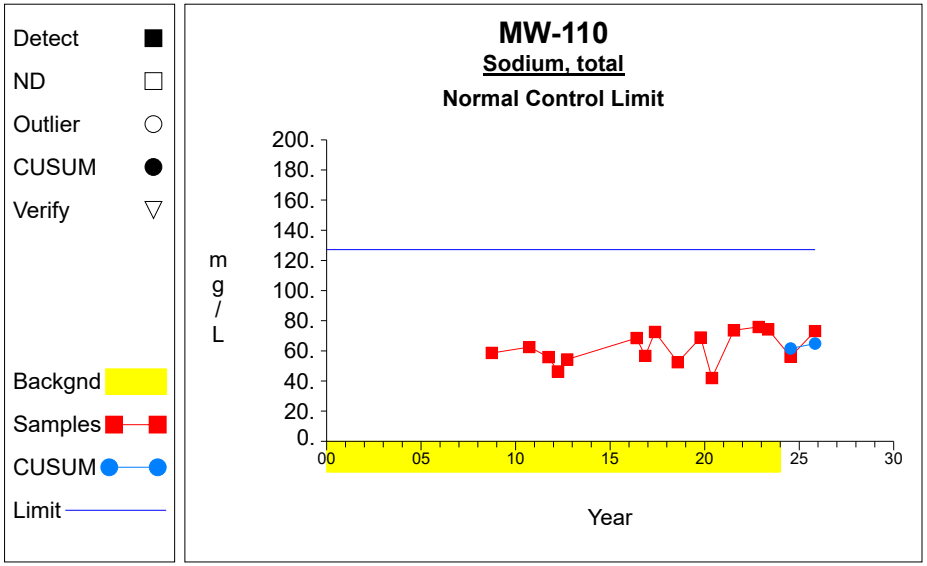
Graph 5



Graph 6



Graph 7



Graph 8

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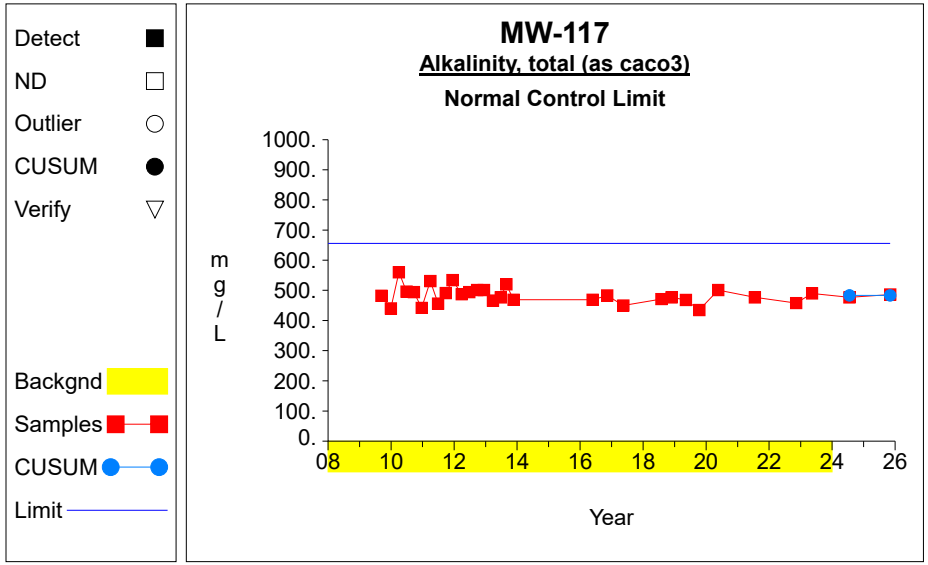
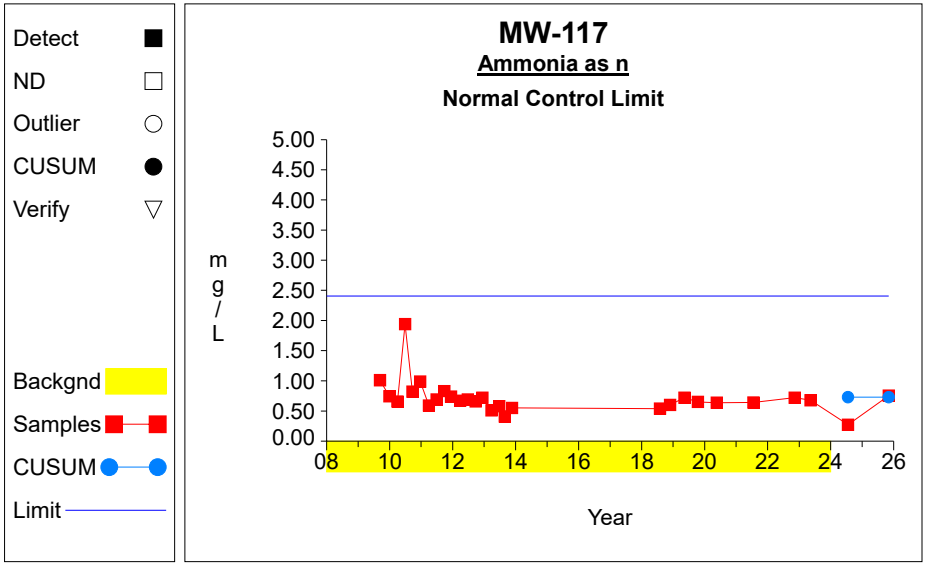
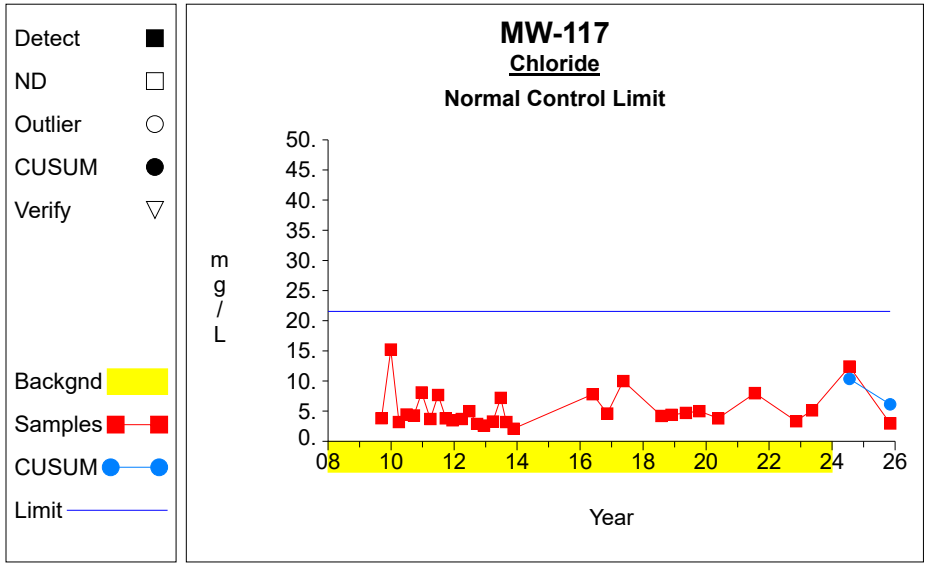
Intra-Well Control Charts / Prediction Limits



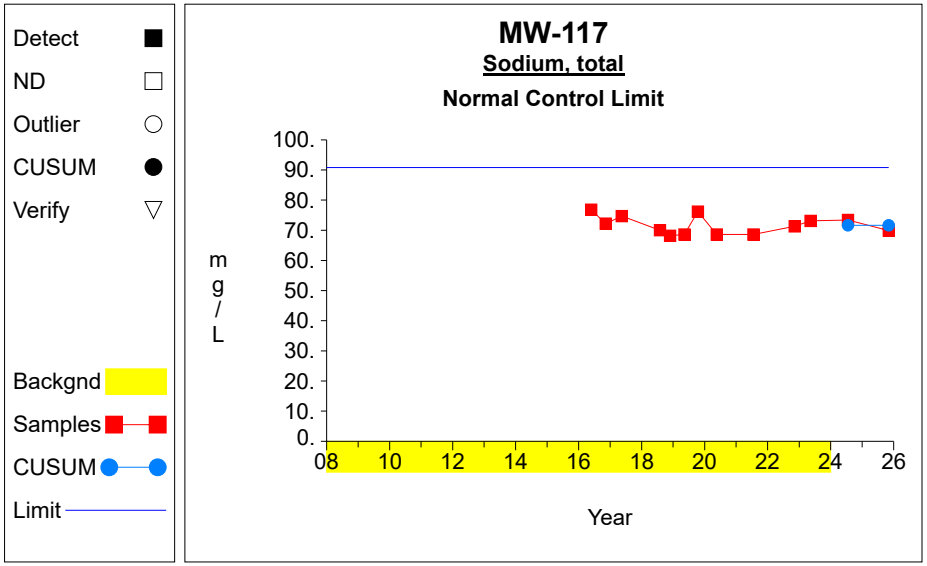
Graph 9



Graph 10



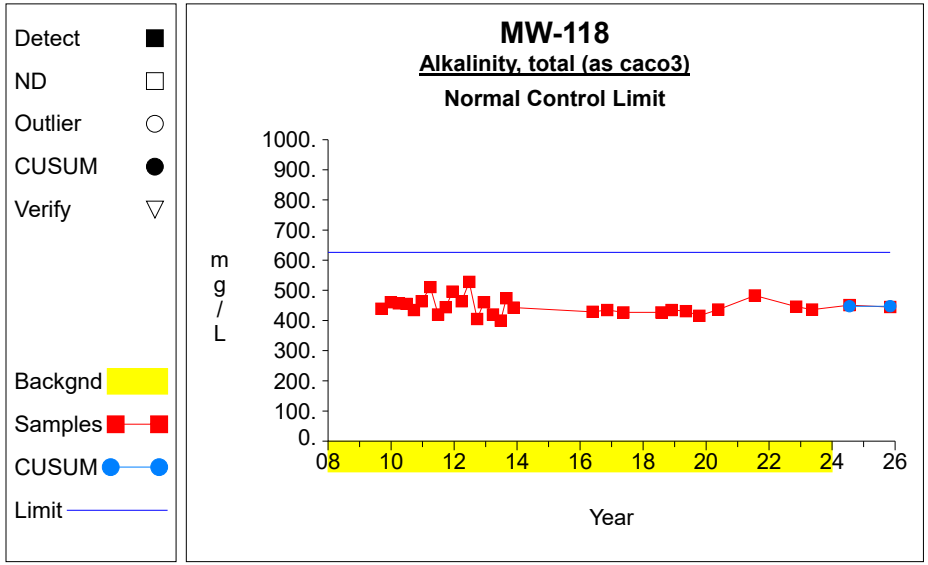
Graph 11



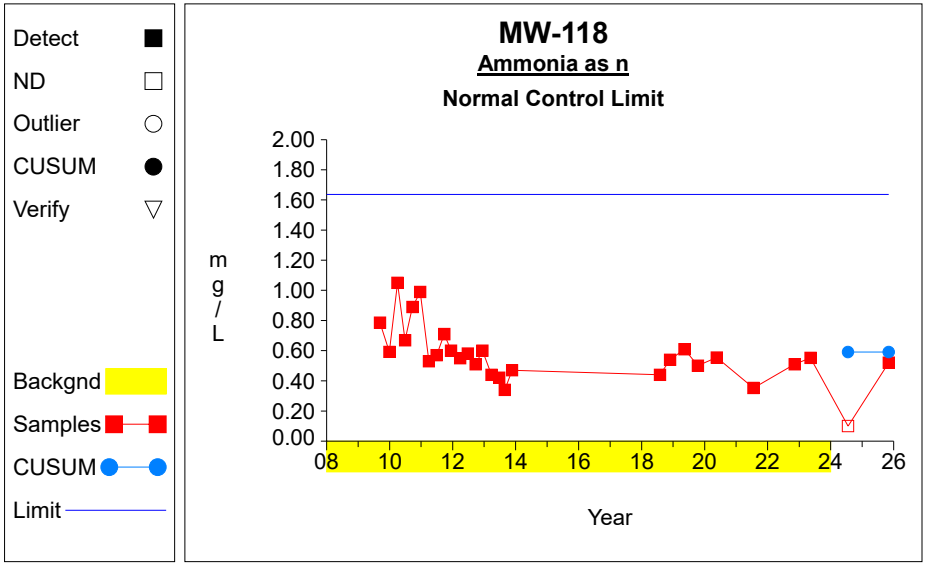
Graph 12

Prepared by: Otter Creek Environmental

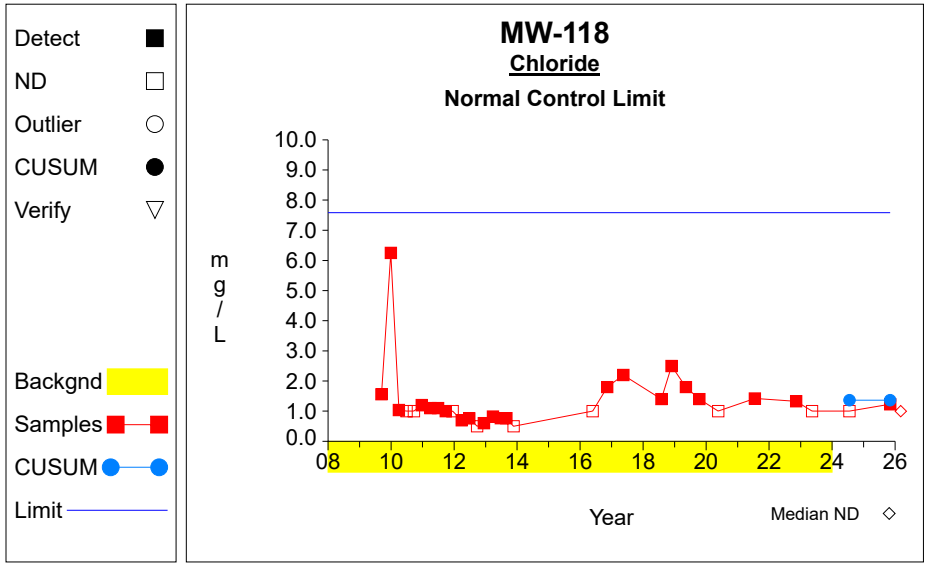
Intra-Well Control Charts / Prediction Limits



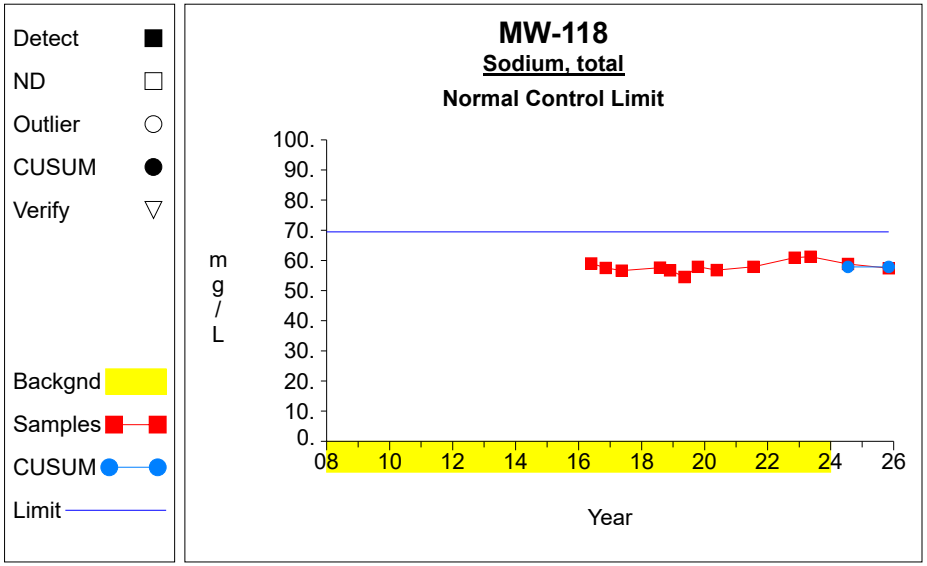
Graph 13



Graph 14



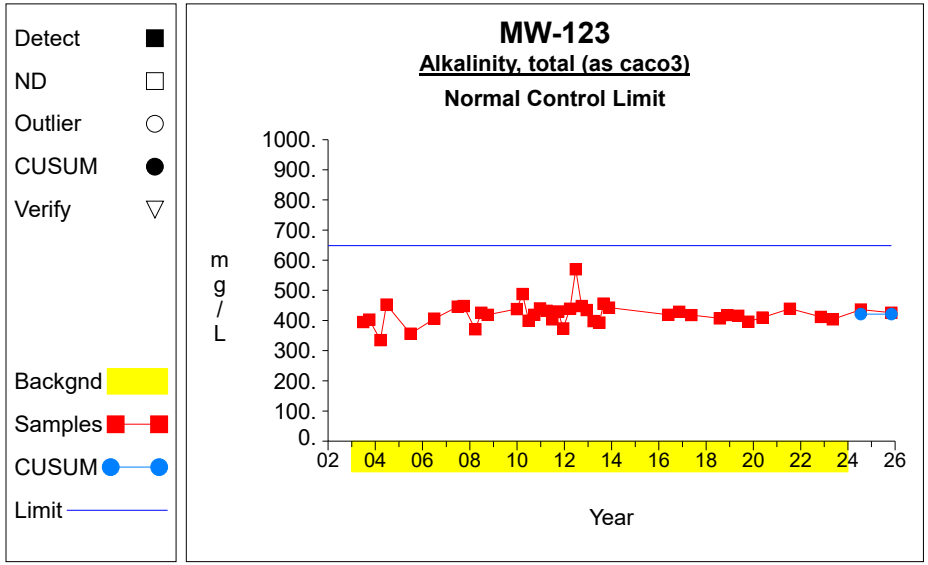
Graph 15



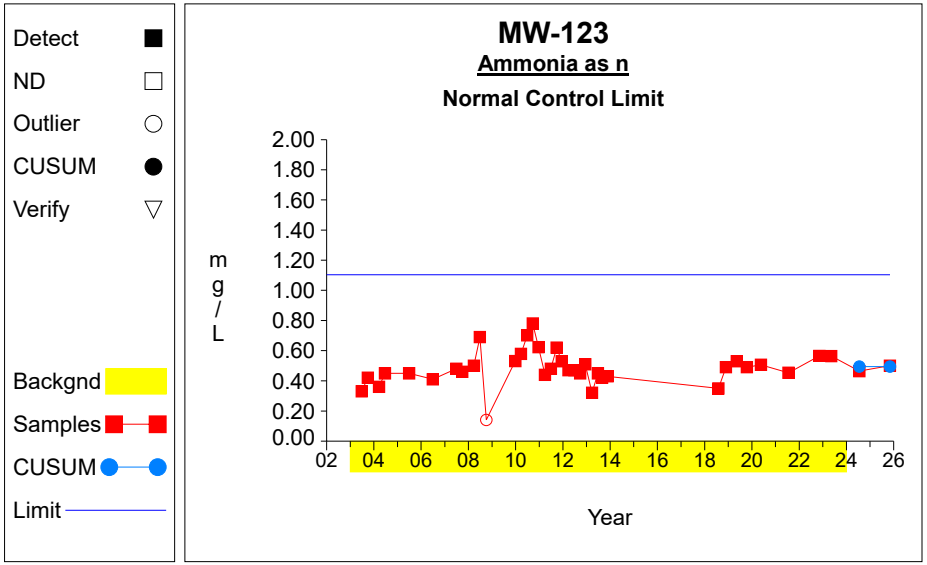
Graph 16

Prepared by: Otter Creek Environmental

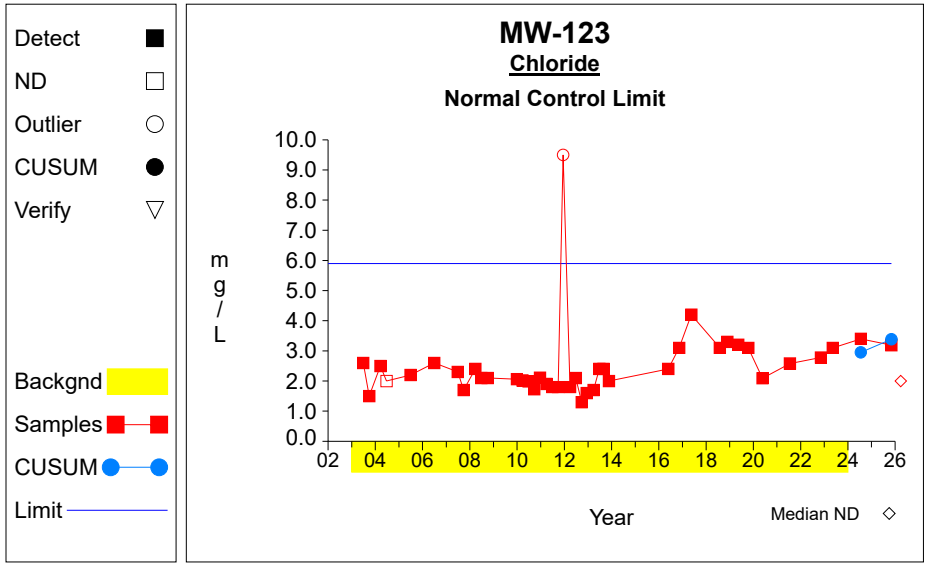
Intra-Well Control Charts / Prediction Limits



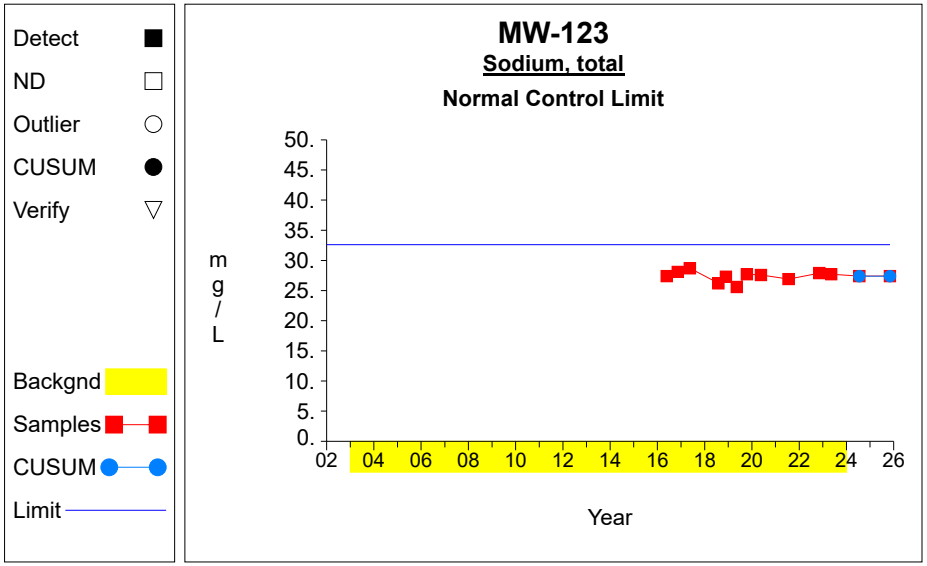
Graph 17



Graph 18



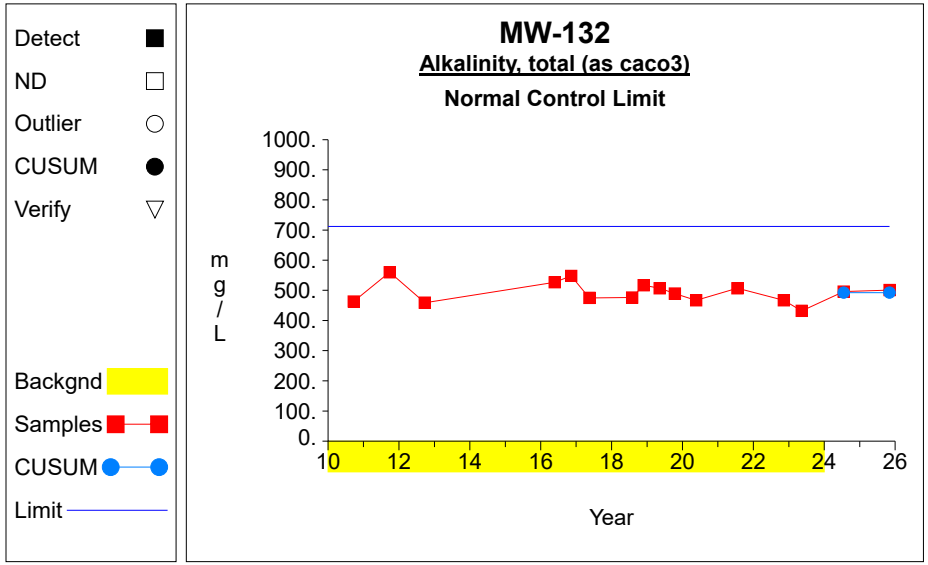
Graph 19



Graph 20

Prepared by: Otter Creek Environmental

Intra-Well Control Charts / Prediction Limits



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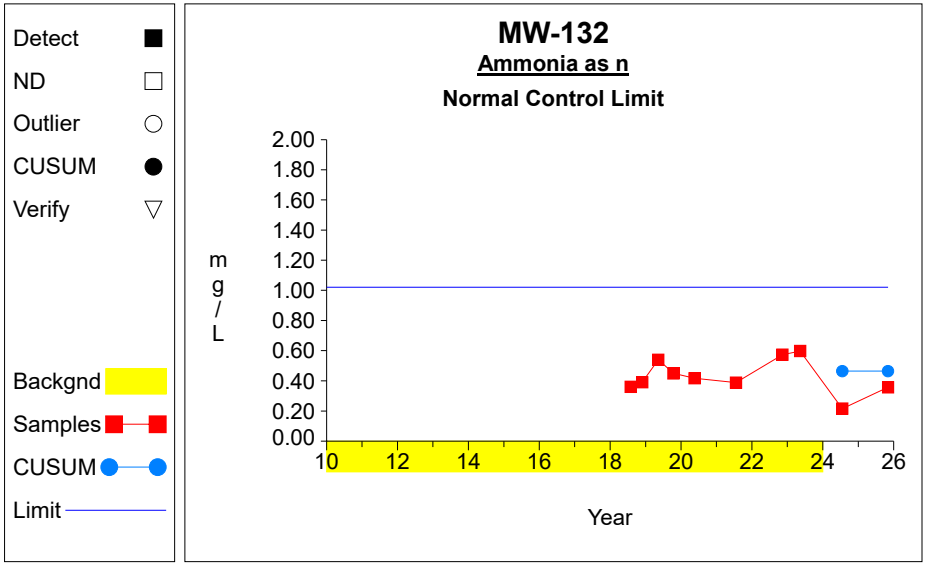
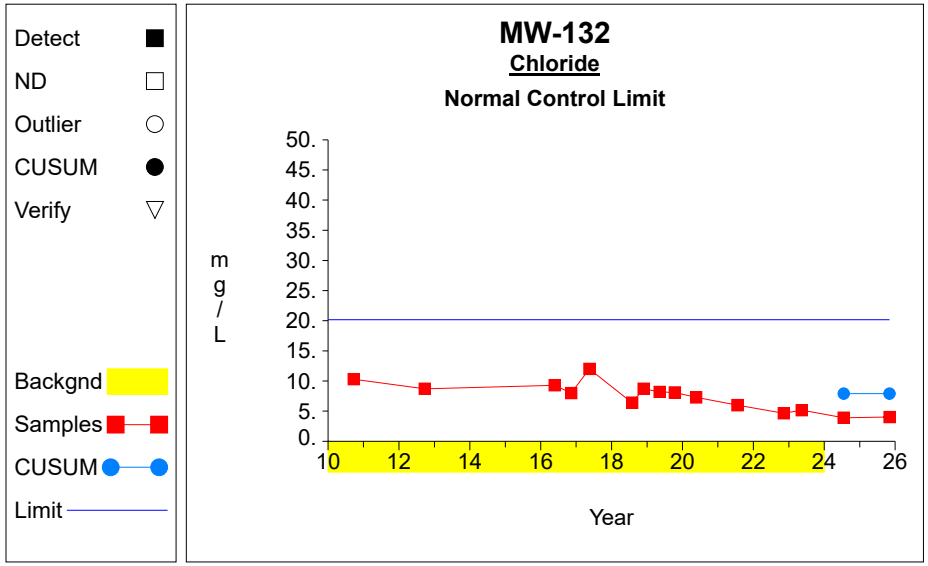
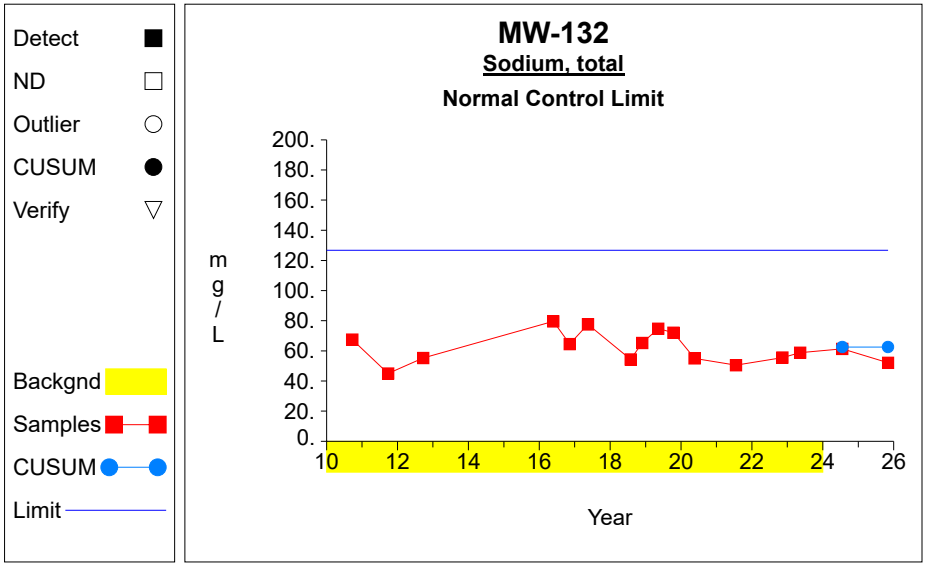


Graph 22



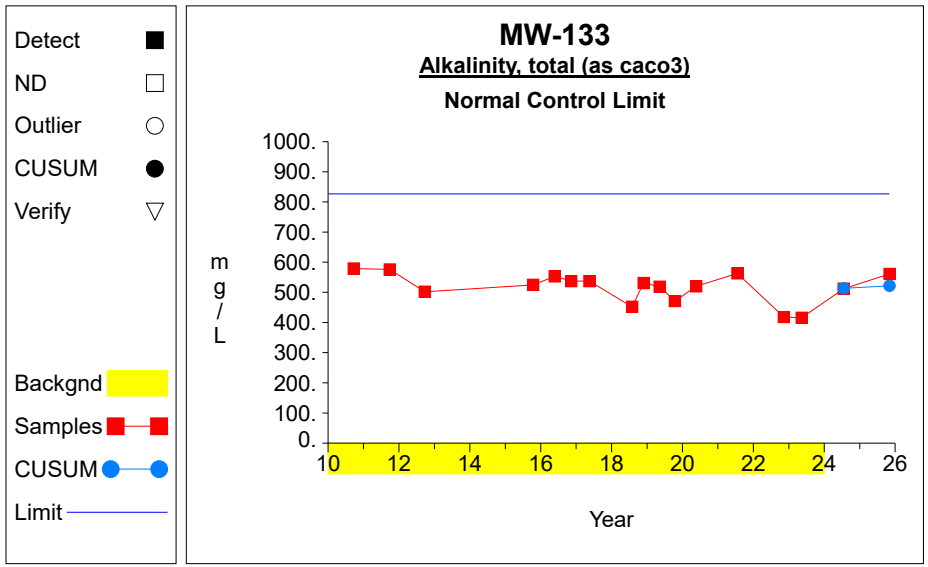
Graph 23



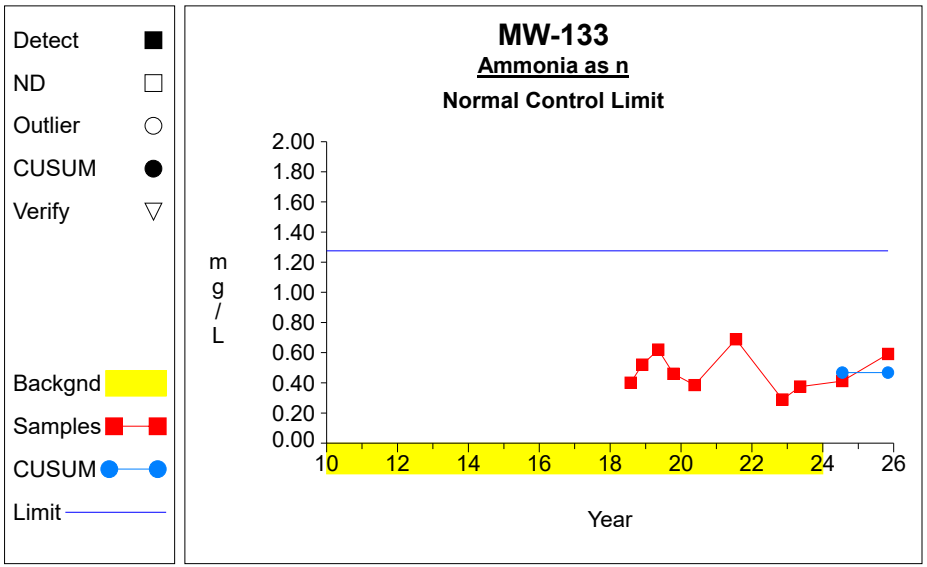
Graph 24

Prepared by: Otter Creek Environmental

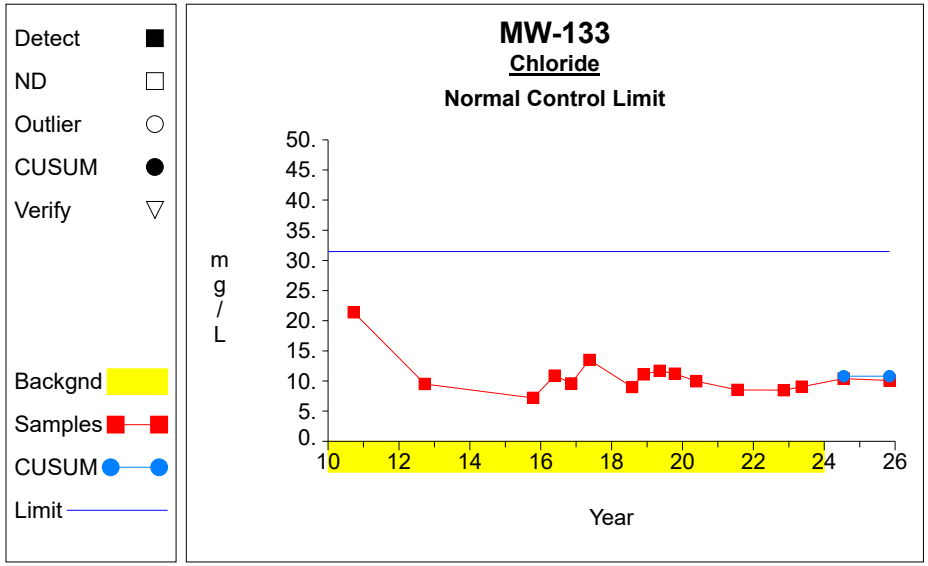
Intra-Well Control Charts / Prediction Limits



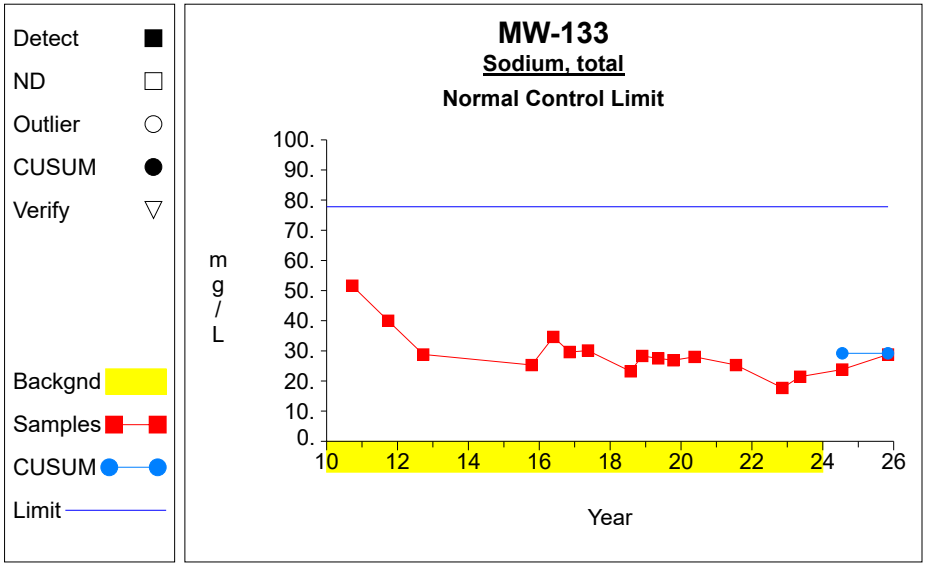
Graph 25



Graph 26



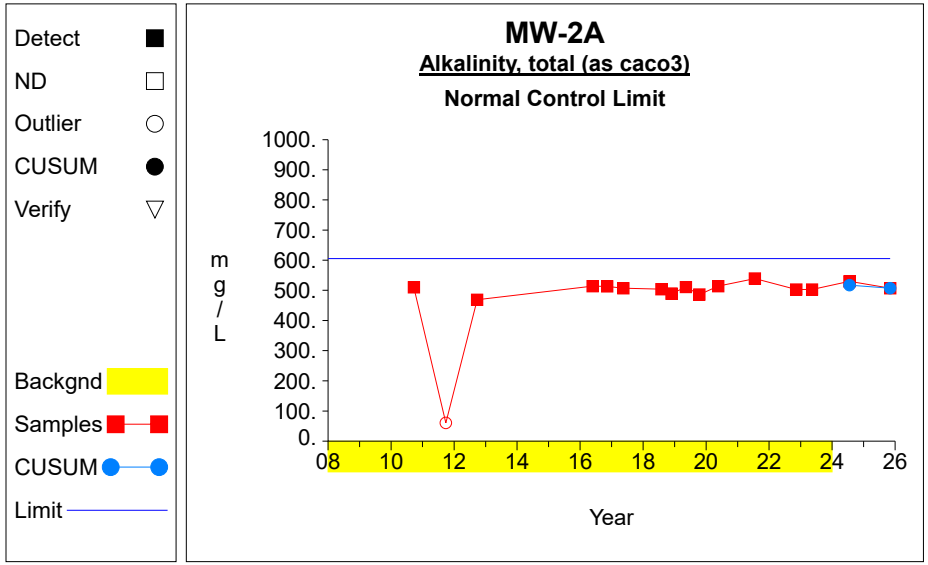
Graph 27



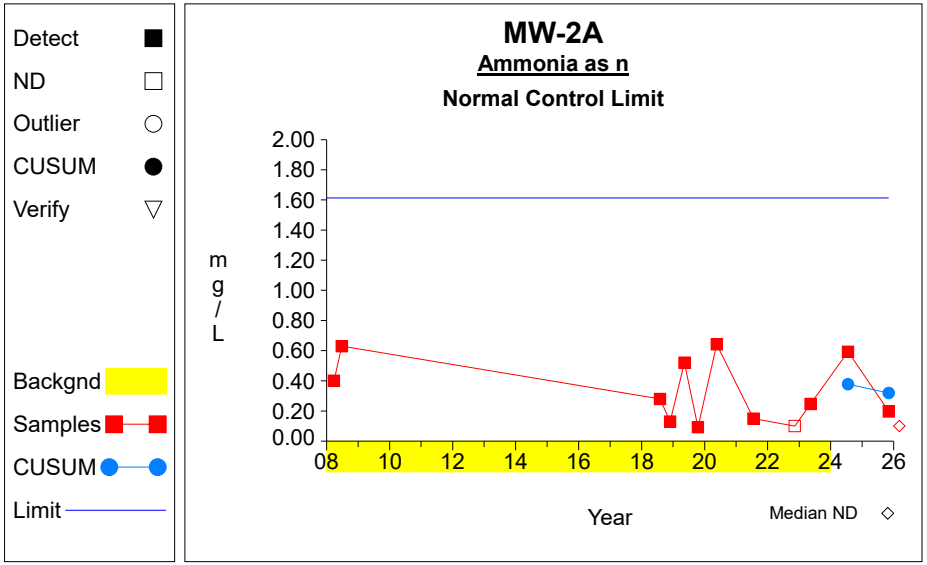
Graph 28

Prepared by: Otter Creek Environmental

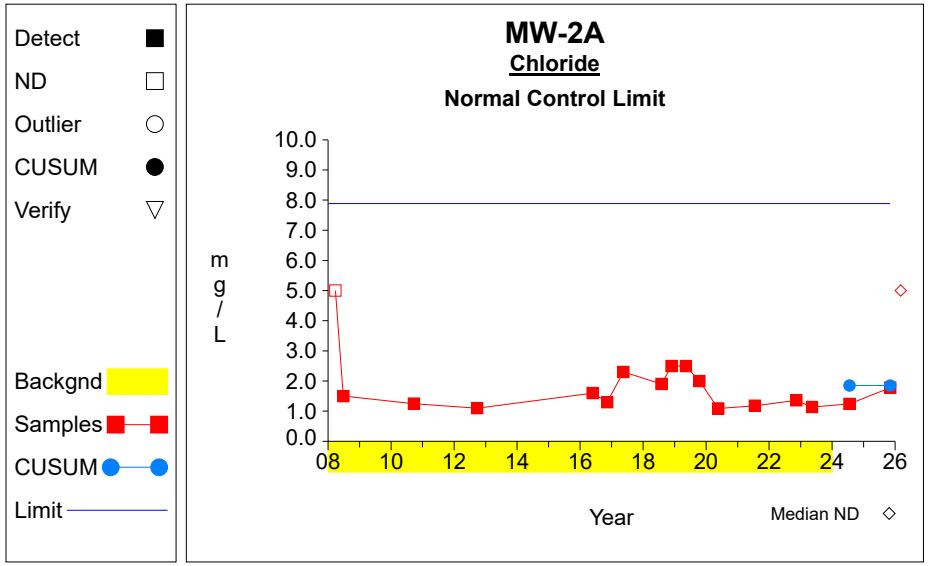
Intra-Well Control Charts / Prediction Limits



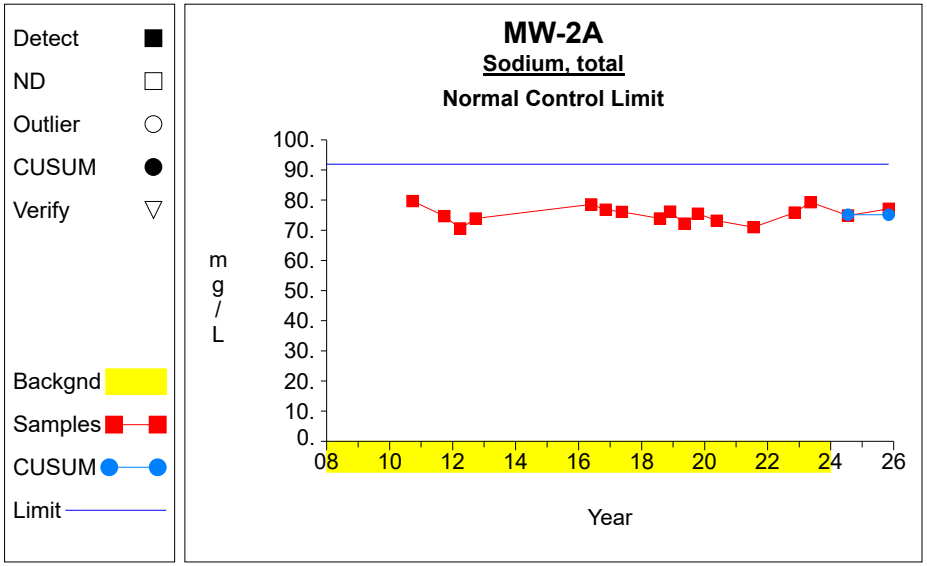
Graph 29



Graph 30



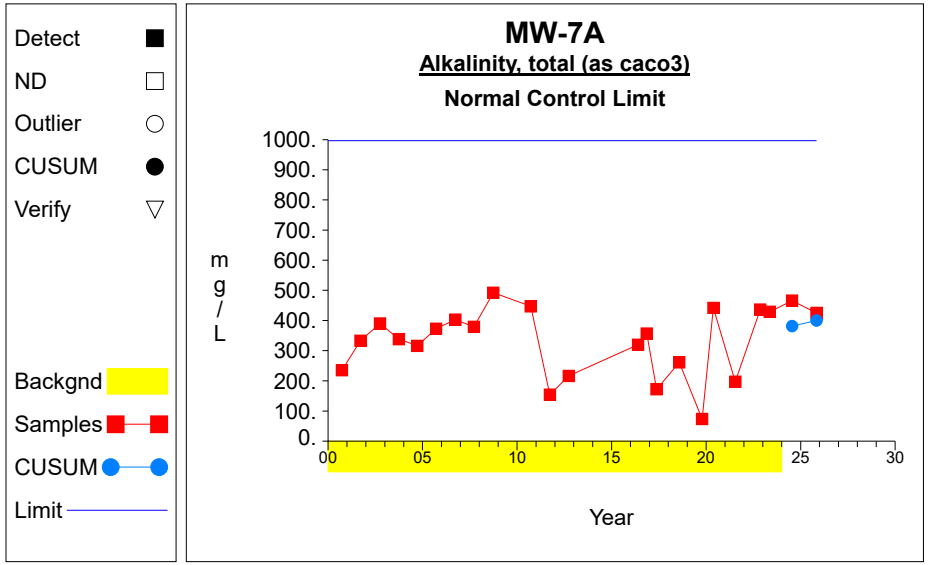
Graph 31



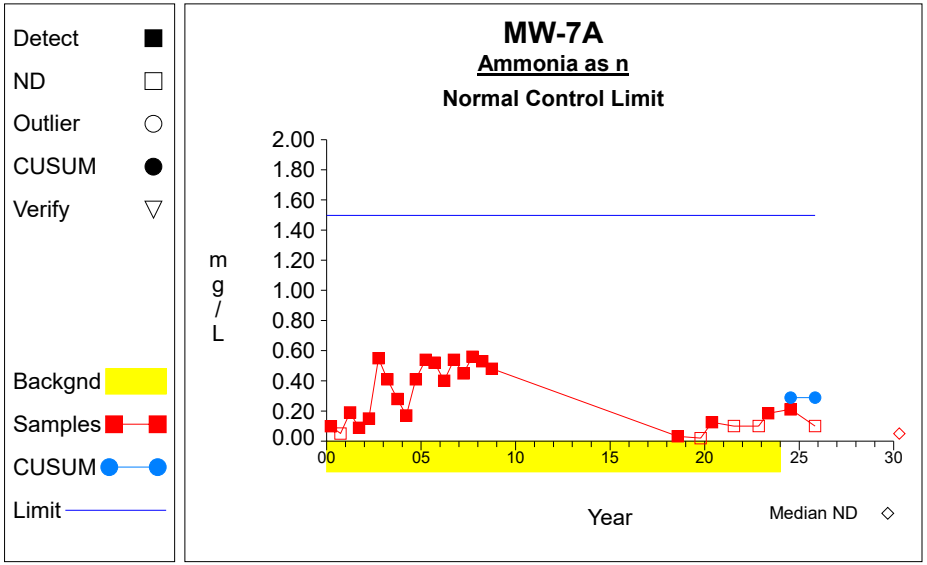
Graph 32

Prepared by: Otter Creek Environmental

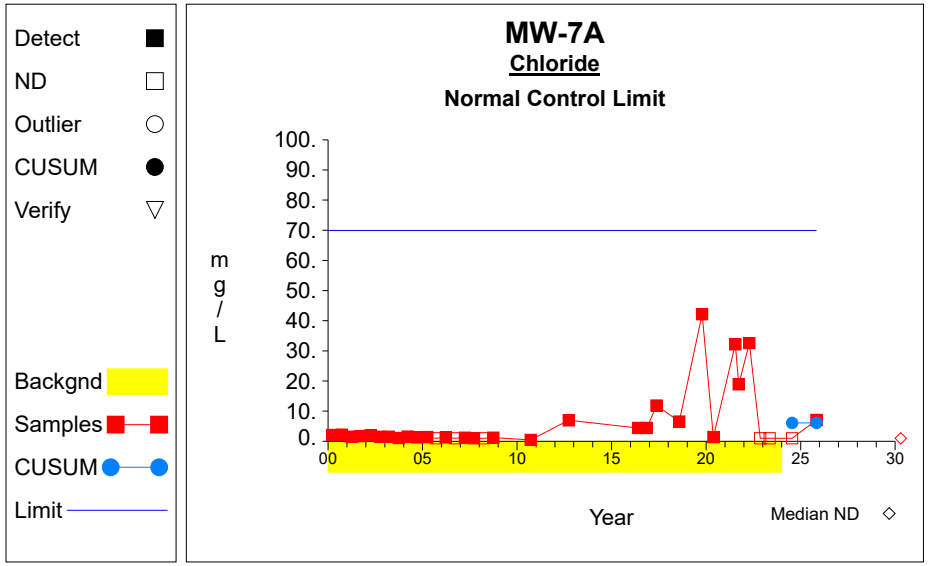
Intra-Well Control Charts / Prediction Limits



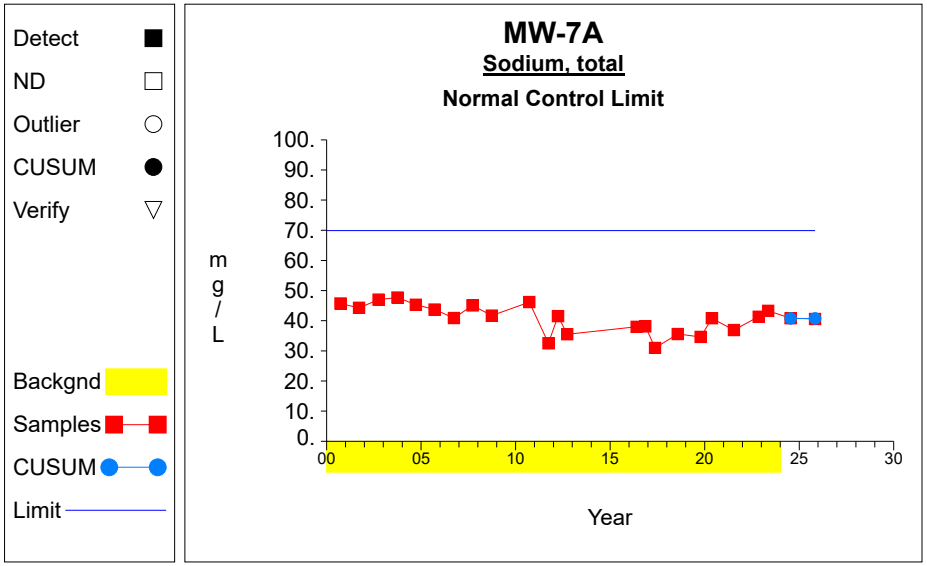
Graph 33



Graph 34



Graph 35



Graph 36

Prepared by: Otter Creek Environmental

False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program

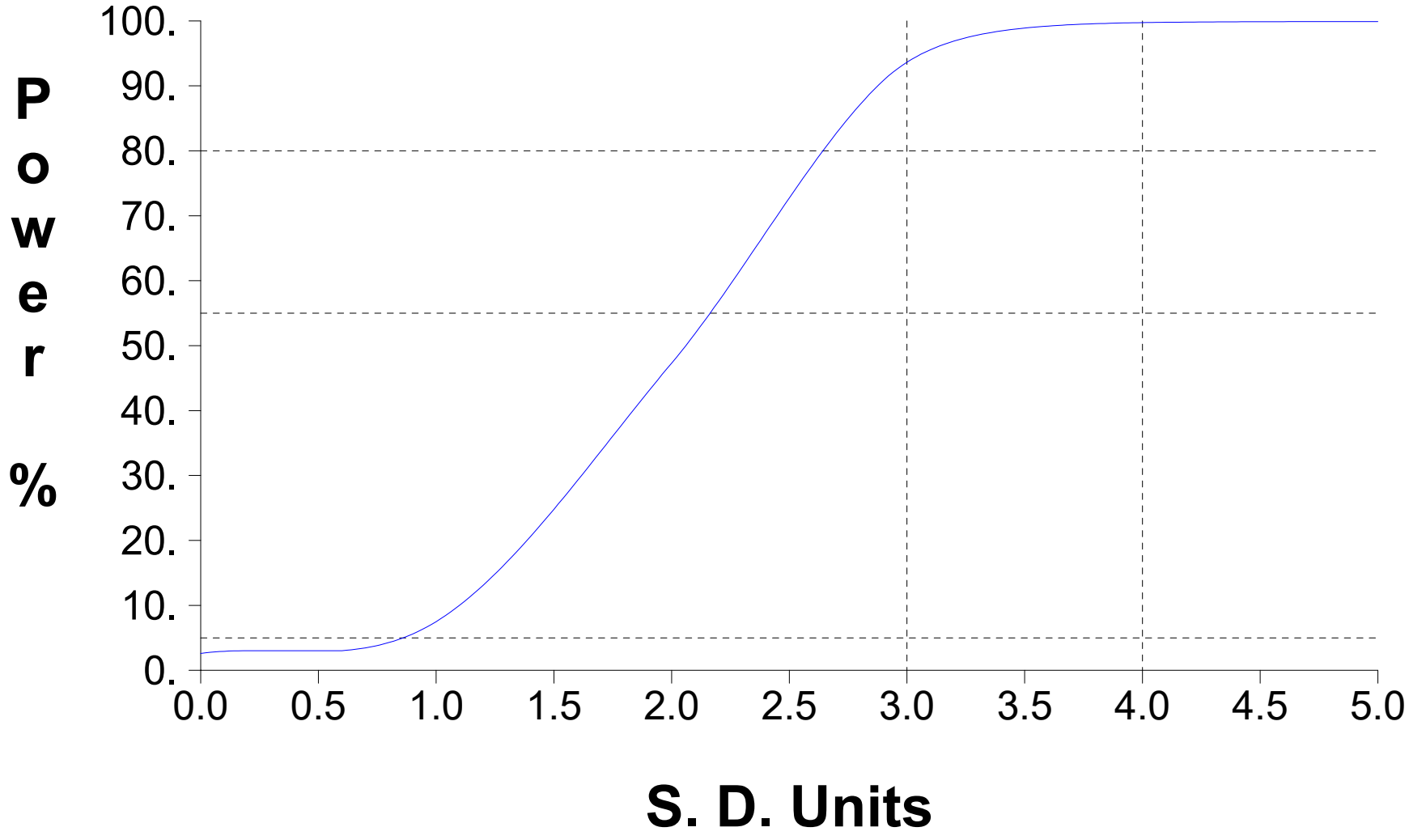


Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Alkalinity, total (as caco3)	mg/L	GU-V-2	07/16/2013	yes	361.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	08/28/2013	yes	775.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	08/29/2016	yes	812.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	11/09/2016	yes	831.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	02/16/2017	yes	810.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	05/16/2017	yes	722.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	07/31/2018	yes	684.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	10/15/2019	yes	656.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	05/20/2020	yes	506.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	07/20/2021	yes	638.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	11/11/2022	yes	644.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	05/11/2023	yes	245.0000					
Alkalinity, total (as caco3)	mg/L	GU-V-2	07/19/2024		470.0000			640.3333		
Alkalinity, total (as caco3)	mg/L	GU-V-2	11/11/2025		449.0000			640.3333		
Ammonia as n	mg/L	GU-V-2	07/31/2018	yes	0.4700					
Ammonia as n	mg/L	GU-V-2	10/15/2019	yes	0.1500					
Ammonia as n	mg/L	GU-V-2	05/20/2020	yes	0.1000	ND				
Ammonia as n	mg/L	GU-V-2	07/20/2021	yes	0.7080					
Ammonia as n	mg/L	GU-V-2	11/11/2022	yes	0.1000	ND				
Ammonia as n	mg/L	GU-V-2	05/11/2023	yes	0.1000	ND				
Ammonia as n	mg/L	GU-V-2	07/19/2024		0.1000	ND		0.2713		
Ammonia as n	mg/L	GU-V-2	11/11/2025		0.1000	ND		0.2713		
Chloride	mg/L	GU-V-2	07/16/2013	yes	82.6000					
Chloride	mg/L	GU-V-2	08/28/2013	yes	87.3000					
Chloride	mg/L	GU-V-2	08/29/2016	yes	67.1000					
Chloride	mg/L	GU-V-2	11/09/2016	yes	69.8000					
Chloride	mg/L	GU-V-2	02/16/2017	yes	70.1000					
Chloride	mg/L	GU-V-2	05/16/2017	yes	39.0000					
Chloride	mg/L	GU-V-2	07/31/2018	yes	32.6000					
Chloride	mg/L	GU-V-2	10/15/2019	yes	37.0000					
Chloride	mg/L	GU-V-2	05/20/2020	yes	23.4000					
Chloride	mg/L	GU-V-2	07/20/2021	yes	32.5000					
Chloride	mg/L	GU-V-2	11/11/2022	yes	36.4000					
Chloride	mg/L	GU-V-2	05/11/2023	yes	17.8000					
Chloride	mg/L	GU-V-2	07/19/2024		33.1000			49.6333		
Chloride	mg/L	GU-V-2	11/11/2025		33.3000			49.6333		
Sodium, total	mg/L	GU-V-2	07/16/2013	yes	43.0000					
Sodium, total	mg/L	GU-V-2	08/28/2013	yes	36.5000					
Sodium, total	mg/L	GU-V-2	08/29/2016	yes	44.4000					
Sodium, total	mg/L	GU-V-2	11/09/2016	yes	44.4000					
Sodium, total	mg/L	GU-V-2	02/16/2017	yes	45.3000					
Sodium, total	mg/L	GU-V-2	05/16/2017	yes	42.0000					
Sodium, total	mg/L	GU-V-2	07/31/2018	yes	45.1000					
Sodium, total	mg/L	GU-V-2	10/15/2019	yes	44.3000					
Sodium, total	mg/L	GU-V-2	05/20/2020	yes	38.1000					
Sodium, total	mg/L	GU-V-2	07/20/2021	yes	44.7000					
Sodium, total	mg/L	GU-V-2	11/11/2022	yes	43.3000					
Sodium, total	mg/L	GU-V-2	05/11/2023	yes	44.9000					
Sodium, total	mg/L	GU-V-2	07/19/2024		45.1000			43.0000		
Sodium, total	mg/L	GU-V-2	11/11/2025		43.1000			43.0000		

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ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Alkalinity, total (as caco3)	mg/L	MW-110	09/26/2000	yes	407.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	09/26/2001	yes	371.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	09/26/2002	yes	404.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	09/29/2003	yes	401.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	09/20/2004	yes	351.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	09/19/2005	yes	302.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	09/27/2006	yes	328.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	09/19/2007	yes	339.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	09/29/2008	yes	382.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	09/22/2010	yes	351.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	09/27/2011	yes	86.0000		yes			*
Alkalinity, total (as caco3)	mg/L	MW-110	09/25/2012	yes	363.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	05/25/2016	yes	432.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	11/09/2016	yes	403.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	05/15/2017	yes	436.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	07/31/2018	yes	392.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	10/15/2019	yes	425.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	05/19/2020	yes	352.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	07/19/2021	yes	473.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	11/10/2022	yes	452.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	05/11/2023	yes	431.0000					
Alkalinity, total (as caco3)	mg/L	MW-110	07/19/2024		422.0000			389.7500		
Alkalinity, total (as caco3)	mg/L	MW-110	11/03/2025		472.0000			438.4035		
Ammonia as n	mg/L	MW-110	03/23/2000	yes	0.2200					
Ammonia as n	mg/L	MW-110	09/06/2000	yes	0.0500	ND			0.0200	***
Ammonia as n	mg/L	MW-110	03/27/2001	yes	0.0100	ND			0.0200	***
Ammonia as n	mg/L	MW-110	09/26/2001	yes	0.0100	ND			0.0200	***
Ammonia as n	mg/L	MW-110	03/28/2002	yes	0.0100	ND			0.0200	***
Ammonia as n	mg/L	MW-110	09/26/2002	yes	0.0100	ND			0.0200	***
Ammonia as n	mg/L	MW-110	03/18/2003	yes	0.0730					
Ammonia as n	mg/L	MW-110	09/29/2003	yes	0.0200	ND				
Ammonia as n	mg/L	MW-110	03/18/2004	yes	0.0200	ND				
Ammonia as n	mg/L	MW-110	09/20/2004	yes	0.0200	ND				
Ammonia as n	mg/L	MW-110	03/28/2005	yes	0.0200	ND				
Ammonia as n	mg/L	MW-110	09/19/2005	yes	0.1200					
Ammonia as n	mg/L	MW-110	03/21/2006	yes	0.0350					
Ammonia as n	mg/L	MW-110	09/27/2006	yes	0.0200	ND				
Ammonia as n	mg/L	MW-110	03/29/2007	yes	0.0460					
Ammonia as n	mg/L	MW-110	09/19/2007	yes	0.0550					
Ammonia as n	mg/L	MW-110	03/26/2008	yes	0.0200					
Ammonia as n	mg/L	MW-110	06/26/2008	yes	0.0200	ND				
Ammonia as n	mg/L	MW-110	09/29/2008	yes	0.0200	ND				
Ammonia as n	mg/L	MW-110	07/31/2018	yes	6.3000					
Ammonia as n	mg/L	MW-110	10/15/2019	yes	0.4500					
Ammonia as n	mg/L	MW-110	05/19/2020	yes	0.1000	ND			0.0200	***
Ammonia as n	mg/L	MW-110	07/19/2021	yes	0.4670					
Ammonia as n	mg/L	MW-110	11/10/2022	yes	0.1760					
Ammonia as n	mg/L	MW-110	05/11/2023	yes	0.1000	ND			0.0200	***
Ammonia as n	mg/L	MW-110	07/19/2024		0.9250			0.3297		
Ammonia as n	mg/L	MW-110	11/03/2025		0.1220			0.3297		

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ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Chloride	mg/L	MW-110	03/23/2000	yes	2.6000					
Chloride	mg/L	MW-110	09/26/2000	yes	5.2000					
Chloride	mg/L	MW-110	03/27/2001	yes	7.6000					
Chloride	mg/L	MW-110	09/26/2001	yes	7.0000					
Chloride	mg/L	MW-110	03/28/2002	yes	6.5000					
Chloride	mg/L	MW-110	09/26/2002	yes	6.0000					
Chloride	mg/L	MW-110	03/18/2003	yes	5.3000					
Chloride	mg/L	MW-110	09/29/2003	yes	3.8000					
Chloride	mg/L	MW-110	03/18/2004	yes	4.4000					
Chloride	mg/L	MW-110	09/20/2004	yes	5.1000					
Chloride	mg/L	MW-110	03/28/2005	yes	4.8000					
Chloride	mg/L	MW-110	09/19/2005	yes	5.2000					
Chloride	mg/L	MW-110	03/21/2006	yes	4.4000					
Chloride	mg/L	MW-110	09/27/2006	yes	5.0000					
Chloride	mg/L	MW-110	03/29/2007	yes	3.6000					
Chloride	mg/L	MW-110	09/19/2007	yes	3.6000					
Chloride	mg/L	MW-110	03/26/2008	yes	3.8000					
Chloride	mg/L	MW-110	06/26/2008	yes	4.3000					
Chloride	mg/L	MW-110	09/29/2008	yes	3.9000					
Chloride	mg/L	MW-110	09/22/2010	yes	3.7900					
Chloride	mg/L	MW-110	09/25/2012	yes	2.6000					
Chloride	mg/L	MW-110	05/25/2016	yes	2.4000					
Chloride	mg/L	MW-110	11/09/2016	yes	2.6000					
Chloride	mg/L	MW-110	05/15/2017	yes	2.9000					
Chloride	mg/L	MW-110	07/31/2018	yes	3.3000					
Chloride	mg/L	MW-110	10/15/2019	yes	2.7000					
Chloride	mg/L	MW-110	05/19/2020	yes	2.0100					
Chloride	mg/L	MW-110	07/19/2021	yes	1.7900					
Chloride	mg/L	MW-110	11/10/2022	yes	1.7000					
Chloride	mg/L	MW-110	05/11/2023	yes	1.5400					
Chloride	mg/L	MW-110	07/19/2024		2.2900			3.9810		
Chloride	mg/L	MW-110	11/03/2025		1.8300			3.9810		
Sodium, total	mg/L	MW-110	09/29/2008	yes	58.6000					
Sodium, total	mg/L	MW-110	09/22/2010	yes	62.5000					
Sodium, total	mg/L	MW-110	09/27/2011	yes	55.9000					
Sodium, total	mg/L	MW-110	03/29/2012	yes	46.3000					
Sodium, total	mg/L	MW-110	09/25/2012	yes	54.3000					
Sodium, total	mg/L	MW-110	05/25/2016	yes	68.5000					
Sodium, total	mg/L	MW-110	11/09/2016	yes	56.7000					
Sodium, total	mg/L	MW-110	05/15/2017	yes	72.5000					
Sodium, total	mg/L	MW-110	07/31/2018	yes	52.4000					
Sodium, total	mg/L	MW-110	10/15/2019	yes	68.9000					
Sodium, total	mg/L	MW-110	05/19/2020	yes	42.0000					
Sodium, total	mg/L	MW-110	07/19/2021	yes	73.6000					
Sodium, total	mg/L	MW-110	11/10/2022	yes	75.9000					
Sodium, total	mg/L	MW-110	05/11/2023	yes	74.3000					
Sodium, total	mg/L	MW-110	07/19/2024		56.2000			61.6000		
Sodium, total	mg/L	MW-110	11/03/2025		73.1000			64.9053		
Alkalinity, total (as caco3)	mg/L	MW-117	09/10/2009	yes	482.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	12/29/2009	yes	440.0000					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Alkalinity, total (as caco3)	mg/L	MW-117	03/31/2010	yes	560.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	06/29/2010	yes	496.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	09/22/2010	yes	494.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	12/21/2010	yes	442.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	03/30/2011	yes	531.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	06/29/2011	yes	456.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	09/27/2011	yes	491.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	12/13/2011	yes	534.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	03/28/2012	yes	487.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	06/25/2012	yes	494.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	09/25/2012	yes	501.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	12/11/2012	yes	501.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	03/26/2013	yes	466.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	06/24/2013	yes	477.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	08/28/2013	yes	520.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	11/20/2013	yes	469.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	05/25/2016	yes	469.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	11/10/2016	yes	483.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	05/15/2017	yes	450.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	07/31/2018	yes	471.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	11/27/2018	yes	477.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	05/10/2019	yes	468.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	10/14/2019	yes	435.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	05/19/2020	yes	501.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	07/19/2021	yes	477.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	11/10/2022	yes	458.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	05/11/2023	yes	490.0000					
Alkalinity, total (as caco3)	mg/L	MW-117	07/19/2024		477.0000			483.4483		
Alkalinity, total (as caco3)	mg/L	MW-117	11/04/2025		486.0000			483.4483		
Ammonia as n	mg/L	MW-117	09/10/2009	yes	1.0100					
Ammonia as n	mg/L	MW-117	12/29/2009	yes	0.7440					
Ammonia as n	mg/L	MW-117	03/31/2010	yes	0.6570					
Ammonia as n	mg/L	MW-117	06/29/2010	yes	1.9400					
Ammonia as n	mg/L	MW-117	09/22/2010	yes	0.8200					
Ammonia as n	mg/L	MW-117	12/21/2010	yes	0.9870					
Ammonia as n	mg/L	MW-117	03/30/2011	yes	0.5900					
Ammonia as n	mg/L	MW-117	06/29/2011	yes	0.6900					
Ammonia as n	mg/L	MW-117	09/27/2011	yes	0.8300					
Ammonia as n	mg/L	MW-117	12/13/2011	yes	0.7400					
Ammonia as n	mg/L	MW-117	03/28/2012	yes	0.6700					
Ammonia as n	mg/L	MW-117	06/25/2012	yes	0.6900					
Ammonia as n	mg/L	MW-117	09/25/2012	yes	0.6600					
Ammonia as n	mg/L	MW-117	12/11/2012	yes	0.7200					
Ammonia as n	mg/L	MW-117	03/26/2013	yes	0.5100					
Ammonia as n	mg/L	MW-117	06/24/2013	yes	0.5800					
Ammonia as n	mg/L	MW-117	08/28/2013	yes	0.4100					
Ammonia as n	mg/L	MW-117	11/20/2013	yes	0.5500					
Ammonia as n	mg/L	MW-117	07/31/2018	yes	0.5400					
Ammonia as n	mg/L	MW-117	11/27/2018	yes	0.6000					
Ammonia as n	mg/L	MW-117	05/10/2019	yes	0.7200					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Ammonia as n	mg/L	MW-117	10/14/2019	yes	0.6500					
Ammonia as n	mg/L	MW-117	05/19/2020	yes	0.6370					
Ammonia as n	mg/L	MW-117	07/19/2021	yes	0.6400					
Ammonia as n	mg/L	MW-117	11/10/2022	yes	0.7200					
Ammonia as n	mg/L	MW-117	05/11/2023	yes	0.6780					
Ammonia as n	mg/L	MW-117	07/19/2024		0.2710			0.7301		
Ammonia as n	mg/L	MW-117	11/04/2025		0.7540			0.7301		
Chloride	mg/L	MW-117	09/10/2009	yes	3.8300					
Chloride	mg/L	MW-117	12/29/2009	yes	15.2000					
Chloride	mg/L	MW-117	03/31/2010	yes	3.2100					
Chloride	mg/L	MW-117	06/29/2010	yes	4.4300					
Chloride	mg/L	MW-117	09/22/2010	yes	4.2800					
Chloride	mg/L	MW-117	12/21/2010	yes	8.1000					
Chloride	mg/L	MW-117	03/30/2011	yes	3.7000					
Chloride	mg/L	MW-117	06/29/2011	yes	7.7000					
Chloride	mg/L	MW-117	09/27/2011	yes	3.8000					
Chloride	mg/L	MW-117	12/13/2011	yes	3.5000					
Chloride	mg/L	MW-117	03/28/2012	yes	3.7000					
Chloride	mg/L	MW-117	06/25/2012	yes	5.0000					
Chloride	mg/L	MW-117	09/25/2012	yes	2.9000					
Chloride	mg/L	MW-117	12/11/2012	yes	2.6000					
Chloride	mg/L	MW-117	03/26/2013	yes	3.3000					
Chloride	mg/L	MW-117	06/24/2013	yes	7.2000					
Chloride	mg/L	MW-117	08/28/2013	yes	3.2000					
Chloride	mg/L	MW-117	11/20/2013	yes	2.1000					
Chloride	mg/L	MW-117	05/25/2016	yes	7.8000					
Chloride	mg/L	MW-117	11/10/2016	yes	4.6000					
Chloride	mg/L	MW-117	05/15/2017	yes	10.0000					
Chloride	mg/L	MW-117	07/31/2018	yes	4.2000					
Chloride	mg/L	MW-117	11/27/2018	yes	4.4000					
Chloride	mg/L	MW-117	05/10/2019	yes	4.7000					
Chloride	mg/L	MW-117	10/14/2019	yes	5.0000					
Chloride	mg/L	MW-117	05/19/2020	yes	3.8100					
Chloride	mg/L	MW-117	07/19/2021	yes	7.9900					
Chloride	mg/L	MW-117	11/10/2022	yes	3.3400					
Chloride	mg/L	MW-117	05/11/2023	yes	5.1300					
Chloride	mg/L	MW-117	07/19/2024		12.4000			10.3474		
Chloride	mg/L	MW-117	11/04/2025		2.9700			6.1366		
Sodium, total	mg/L	MW-117	05/25/2016	yes	76.8000					
Sodium, total	mg/L	MW-117	11/10/2016	yes	72.2000					
Sodium, total	mg/L	MW-117	05/15/2017	yes	74.7000					
Sodium, total	mg/L	MW-117	07/31/2018	yes	70.0000					
Sodium, total	mg/L	MW-117	11/27/2018	yes	68.2000					
Sodium, total	mg/L	MW-117	05/10/2019	yes	68.6000					
Sodium, total	mg/L	MW-117	10/14/2019	yes	76.2000					
Sodium, total	mg/L	MW-117	05/19/2020	yes	68.6000					
Sodium, total	mg/L	MW-117	07/19/2021	yes	68.6000					
Sodium, total	mg/L	MW-117	11/10/2022	yes	71.3000					
Sodium, total	mg/L	MW-117	05/11/2023	yes	73.1000					
Sodium, total	mg/L	MW-117	07/19/2024		73.4000			71.6636		

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Sodium, total	mg/L	MW-117	11/04/2025		69.9000			71.6636		
Alkalinity, total (as caco3)	mg/L	MW-118	09/10/2009	yes	439.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	12/29/2009	yes	461.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	03/31/2010	yes	457.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	06/29/2010	yes	455.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	09/22/2010	yes	435.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	12/21/2010	yes	464.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	03/30/2011	yes	511.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	06/29/2011	yes	420.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	09/27/2011	yes	444.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	12/13/2011	yes	496.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	03/28/2012	yes	464.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	06/25/2012	yes	528.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	09/25/2012	yes	405.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	12/11/2012	yes	461.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	03/26/2013	yes	420.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	06/24/2013	yes	400.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	08/28/2013	yes	474.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	11/20/2013	yes	443.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	05/25/2016	yes	429.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	11/10/2016	yes	435.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	05/15/2017	yes	427.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	07/31/2018	yes	427.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	11/27/2018	yes	435.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	05/10/2019	yes	431.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	10/14/2019	yes	416.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	05/19/2020	yes	436.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	07/19/2021	yes	483.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	11/10/2022	yes	446.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	05/11/2023	yes	436.0000					
Alkalinity, total (as caco3)	mg/L	MW-118	07/19/2024		451.0000			447.5172		
Alkalinity, total (as caco3)	mg/L	MW-118	11/04/2025		445.0000			447.5172		
Ammonia as n	mg/L	MW-118	09/10/2009	yes	0.7860					
Ammonia as n	mg/L	MW-118	12/29/2009	yes	0.5920					
Ammonia as n	mg/L	MW-118	03/31/2010	yes	1.0500					
Ammonia as n	mg/L	MW-118	06/29/2010	yes	0.6690					
Ammonia as n	mg/L	MW-118	09/22/2010	yes	0.8900					
Ammonia as n	mg/L	MW-118	12/21/2010	yes	0.9890					
Ammonia as n	mg/L	MW-118	03/30/2011	yes	0.5300					
Ammonia as n	mg/L	MW-118	06/29/2011	yes	0.5700					
Ammonia as n	mg/L	MW-118	09/27/2011	yes	0.7100					
Ammonia as n	mg/L	MW-118	12/13/2011	yes	0.6000					
Ammonia as n	mg/L	MW-118	03/28/2012	yes	0.5500					
Ammonia as n	mg/L	MW-118	06/25/2012	yes	0.5800					
Ammonia as n	mg/L	MW-118	09/25/2012	yes	0.5100					
Ammonia as n	mg/L	MW-118	12/11/2012	yes	0.6000					
Ammonia as n	mg/L	MW-118	03/26/2013	yes	0.4400					
Ammonia as n	mg/L	MW-118	06/24/2013	yes	0.4200					
Ammonia as n	mg/L	MW-118	08/28/2013	yes	0.3400					
Ammonia as n	mg/L	MW-118	11/20/2013	yes	0.4700					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Ammonia as n	mg/L	MW-118	07/31/2018	yes	0.4400					
Ammonia as n	mg/L	MW-118	11/27/2018	yes	0.5400					
Ammonia as n	mg/L	MW-118	05/10/2019	yes	0.6100					
Ammonia as n	mg/L	MW-118	10/14/2019	yes	0.5000					
Ammonia as n	mg/L	MW-118	05/19/2020	yes	0.5540					
Ammonia as n	mg/L	MW-118	07/19/2021	yes	0.3520					
Ammonia as n	mg/L	MW-118	11/10/2022	yes	0.5100					
Ammonia as n	mg/L	MW-118	05/11/2023	yes	0.5520					
Ammonia as n	mg/L	MW-118	07/19/2024		0.1000	ND		0.5905		
Ammonia as n	mg/L	MW-118	11/04/2025		0.5200			0.5905		
Chloride	mg/L	MW-118	09/10/2009	yes	1.5600					
Chloride	mg/L	MW-118	12/29/2009	yes	6.2500					
Chloride	mg/L	MW-118	03/31/2010	yes	1.0400					
Chloride	mg/L	MW-118	06/29/2010	yes	1.0000	ND				
Chloride	mg/L	MW-118	09/22/2010	yes	1.0000	ND				
Chloride	mg/L	MW-118	12/21/2010	yes	1.2000					
Chloride	mg/L	MW-118	03/30/2011	yes	1.1000					
Chloride	mg/L	MW-118	06/29/2011	yes	1.1000					
Chloride	mg/L	MW-118	09/27/2011	yes	1.0000					
Chloride	mg/L	MW-118	12/13/2011	yes	1.0000	ND				
Chloride	mg/L	MW-118	03/28/2012	yes	0.7000					
Chloride	mg/L	MW-118	06/25/2012	yes	0.7600					
Chloride	mg/L	MW-118	09/25/2012	yes	0.5000	ND			1.0000	***
Chloride	mg/L	MW-118	12/11/2012	yes	0.6000					
Chloride	mg/L	MW-118	03/26/2013	yes	0.8200					
Chloride	mg/L	MW-118	06/24/2013	yes	0.7700					
Chloride	mg/L	MW-118	08/28/2013	yes	0.7700					
Chloride	mg/L	MW-118	11/20/2013	yes	0.5000	ND			1.0000	***
Chloride	mg/L	MW-118	05/25/2016	yes	1.0000	ND				
Chloride	mg/L	MW-118	11/10/2016	yes	1.8000					
Chloride	mg/L	MW-118	05/15/2017	yes	2.2000					
Chloride	mg/L	MW-118	07/31/2018	yes	1.4000					
Chloride	mg/L	MW-118	11/27/2018	yes	2.5000					
Chloride	mg/L	MW-118	05/10/2019	yes	1.8000					
Chloride	mg/L	MW-118	10/14/2019	yes	1.4000					
Chloride	mg/L	MW-118	05/19/2020	yes	1.0000	ND				
Chloride	mg/L	MW-118	07/19/2021	yes	1.4200					
Chloride	mg/L	MW-118	11/10/2022	yes	1.3300					
Chloride	mg/L	MW-118	05/11/2023	yes	1.0000	ND				
Chloride	mg/L	MW-118	07/19/2024		1.0000	ND		1.3628		
Chloride	mg/L	MW-118	11/04/2025		1.2300			1.3628		
Sodium, total	mg/L	MW-118	05/25/2016	yes	59.0000					
Sodium, total	mg/L	MW-118	11/10/2016	yes	57.5000					
Sodium, total	mg/L	MW-118	05/15/2017	yes	56.6000					
Sodium, total	mg/L	MW-118	07/31/2018	yes	57.6000					
Sodium, total	mg/L	MW-118	11/27/2018	yes	56.7000					
Sodium, total	mg/L	MW-118	05/10/2019	yes	54.5000					
Sodium, total	mg/L	MW-118	10/14/2019	yes	57.9000					
Sodium, total	mg/L	MW-118	05/19/2020	yes	56.8000					
Sodium, total	mg/L	MW-118	07/19/2021	yes	57.9000					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Sodium, total	mg/L	MW-118	11/10/2022	yes	60.9000					
Sodium, total	mg/L	MW-118	05/11/2023	yes	61.2000					
Sodium, total	mg/L	MW-118	07/19/2024		58.8000			57.8727		
Sodium, total	mg/L	MW-118	11/04/2025		57.4000			57.8727		
Alkalinity, total (as caco3)	mg/L	MW-123	06/26/2003	yes	395.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	09/29/2003	yes	403.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	03/19/2004	yes	335.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	06/22/2004	yes	453.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	06/29/2005	yes	356.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	06/29/2006	yes	406.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	06/29/2007	yes	446.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	09/27/2007	yes	448.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	03/26/2008	yes	371.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	06/26/2008	yes	426.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	10/02/2008	yes	419.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	12/28/2009	yes	438.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	03/24/2010	yes	488.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	06/28/2010	yes	399.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	09/22/2010	yes	419.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	12/20/2010	yes	440.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	03/30/2011	yes	432.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	06/28/2011	yes	404.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	09/27/2011	yes	430.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	12/12/2011	yes	374.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	03/28/2012	yes	439.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	06/26/2012	yes	570.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	09/25/2012	yes	448.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	12/11/2012	yes	435.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	03/26/2013	yes	398.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	06/25/2013	yes	393.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	08/29/2013	yes	456.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	11/21/2013	yes	443.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	05/25/2016	yes	419.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	11/09/2016	yes	429.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	05/16/2017	yes	418.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	07/31/2018	yes	407.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	11/27/2018	yes	418.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	05/10/2019	yes	416.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	10/14/2019	yes	396.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	05/19/2020	yes	410.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	07/19/2021	yes	439.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	11/10/2022	yes	412.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	05/11/2023	yes	404.0000					
Alkalinity, total (as caco3)	mg/L	MW-123	07/19/2024		436.0000			421.3333		
Alkalinity, total (as caco3)	mg/L	MW-123	11/04/2025		426.0000			421.3333		
Ammonia as n	mg/L	MW-123	06/26/2003	yes	0.3300					
Ammonia as n	mg/L	MW-123	09/29/2003	yes	0.4200					
Ammonia as n	mg/L	MW-123	03/19/2004	yes	0.3600					
Ammonia as n	mg/L	MW-123	06/22/2004	yes	0.4500					
Ammonia as n	mg/L	MW-123	06/29/2005	yes	0.4500					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Ammonia as n	mg/L	MW-123	06/29/2006	yes	0.4100					
Ammonia as n	mg/L	MW-123	06/29/2007	yes	0.4800					
Ammonia as n	mg/L	MW-123	09/27/2007	yes	0.4600					
Ammonia as n	mg/L	MW-123	03/26/2008	yes	0.5000					
Ammonia as n	mg/L	MW-123	06/26/2008	yes	0.6900					
Ammonia as n	mg/L	MW-123	10/02/2008	yes	0.1400		yes			*
Ammonia as n	mg/L	MW-123	12/28/2009	yes	0.5310					
Ammonia as n	mg/L	MW-123	03/24/2010	yes	0.5790					
Ammonia as n	mg/L	MW-123	06/28/2010	yes	0.7020					
Ammonia as n	mg/L	MW-123	09/22/2010	yes	0.7800					
Ammonia as n	mg/L	MW-123	12/20/2010	yes	0.6230					
Ammonia as n	mg/L	MW-123	03/30/2011	yes	0.4400					
Ammonia as n	mg/L	MW-123	06/28/2011	yes	0.4800					
Ammonia as n	mg/L	MW-123	09/27/2011	yes	0.6200					
Ammonia as n	mg/L	MW-123	12/12/2011	yes	0.5300					
Ammonia as n	mg/L	MW-123	03/28/2012	yes	0.4700					
Ammonia as n	mg/L	MW-123	06/26/2012	yes	0.4700					
Ammonia as n	mg/L	MW-123	09/25/2012	yes	0.4500					
Ammonia as n	mg/L	MW-123	12/11/2012	yes	0.5100					
Ammonia as n	mg/L	MW-123	03/26/2013	yes	0.3200					
Ammonia as n	mg/L	MW-123	06/25/2013	yes	0.4500					
Ammonia as n	mg/L	MW-123	08/29/2013	yes	0.4200					
Ammonia as n	mg/L	MW-123	11/21/2013	yes	0.4300					
Ammonia as n	mg/L	MW-123	07/31/2018	yes	0.3500					
Ammonia as n	mg/L	MW-123	11/27/2018	yes	0.4900					
Ammonia as n	mg/L	MW-123	05/10/2019	yes	0.5300					
Ammonia as n	mg/L	MW-123	10/14/2019	yes	0.4900					
Ammonia as n	mg/L	MW-123	05/19/2020	yes	0.5060					
Ammonia as n	mg/L	MW-123	07/19/2021	yes	0.4530					
Ammonia as n	mg/L	MW-123	11/10/2022	yes	0.5650					
Ammonia as n	mg/L	MW-123	05/11/2023	yes	0.5640					
Ammonia as n	mg/L	MW-123	07/19/2024		0.4640			0.4944		
Ammonia as n	mg/L	MW-123	11/04/2025		0.5000			0.4944		
Chloride	mg/L	MW-123	06/26/2003	yes	2.6000					
Chloride	mg/L	MW-123	09/29/2003	yes	1.5000					
Chloride	mg/L	MW-123	03/19/2004	yes	2.5000					
Chloride	mg/L	MW-123	06/22/2004	yes	2.0000	ND				
Chloride	mg/L	MW-123	06/29/2005	yes	2.2000					
Chloride	mg/L	MW-123	06/29/2006	yes	2.6000					
Chloride	mg/L	MW-123	06/29/2007	yes	2.3000					
Chloride	mg/L	MW-123	09/27/2007	yes	1.7000					
Chloride	mg/L	MW-123	03/26/2008	yes	2.4000					
Chloride	mg/L	MW-123	06/26/2008	yes	2.1000					
Chloride	mg/L	MW-123	10/02/2008	yes	2.1000					
Chloride	mg/L	MW-123	12/28/2009	yes	2.0600					
Chloride	mg/L	MW-123	03/24/2010	yes	2.0200					
Chloride	mg/L	MW-123	06/28/2010	yes	1.9900					
Chloride	mg/L	MW-123	09/22/2010	yes	1.7300					
Chloride	mg/L	MW-123	12/20/2010	yes	2.1100					
Chloride	mg/L	MW-123	03/30/2011	yes	1.9000					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Chloride	mg/L	MW-123	06/28/2011	yes	1.8000					
Chloride	mg/L	MW-123	09/27/2011	yes	1.8000					
Chloride	mg/L	MW-123	12/12/2011	yes	9.5000		yes			*
Chloride	mg/L	MW-123	03/28/2012	yes	1.8000					
Chloride	mg/L	MW-123	06/26/2012	yes	2.1000					
Chloride	mg/L	MW-123	09/25/2012	yes	1.3000					
Chloride	mg/L	MW-123	12/11/2012	yes	1.6000					
Chloride	mg/L	MW-123	03/26/2013	yes	1.7000					
Chloride	mg/L	MW-123	06/25/2013	yes	2.4000					
Chloride	mg/L	MW-123	08/29/2013	yes	2.4000					
Chloride	mg/L	MW-123	11/21/2013	yes	2.0000					
Chloride	mg/L	MW-123	05/25/2016	yes	2.4000					
Chloride	mg/L	MW-123	11/09/2016	yes	3.1000					
Chloride	mg/L	MW-123	05/16/2017	yes	4.2000					
Chloride	mg/L	MW-123	07/31/2018	yes	3.1000					
Chloride	mg/L	MW-123	11/27/2018	yes	3.3000					
Chloride	mg/L	MW-123	05/10/2019	yes	3.2000					
Chloride	mg/L	MW-123	10/14/2019	yes	3.1000					
Chloride	mg/L	MW-123	05/19/2020	yes	2.0900					
Chloride	mg/L	MW-123	07/19/2021	yes	2.5800					
Chloride	mg/L	MW-123	11/10/2022	yes	2.7800					
Chloride	mg/L	MW-123	05/11/2023	yes	3.1000					
Chloride	mg/L	MW-123	07/19/2024		3.4000			2.9511		
Chloride	mg/L	MW-123	11/04/2025		3.1900			3.3854		
Sodium, total	mg/L	MW-123	05/25/2016	yes	27.4000					
Sodium, total	mg/L	MW-123	11/09/2016	yes	28.1000					
Sodium, total	mg/L	MW-123	05/16/2017	yes	28.7000					
Sodium, total	mg/L	MW-123	07/31/2018	yes	26.2000					
Sodium, total	mg/L	MW-123	11/27/2018	yes	27.3000					
Sodium, total	mg/L	MW-123	05/10/2019	yes	25.6000					
Sodium, total	mg/L	MW-123	10/14/2019	yes	27.7000					
Sodium, total	mg/L	MW-123	05/19/2020	yes	27.6000					
Sodium, total	mg/L	MW-123	07/19/2021	yes	26.9000					
Sodium, total	mg/L	MW-123	11/10/2022	yes	27.9000					
Sodium, total	mg/L	MW-123	05/11/2023	yes	27.7000					
Sodium, total	mg/L	MW-123	07/19/2024		27.4000			27.3727		
Sodium, total	mg/L	MW-123	11/04/2025		27.4000			27.3727		
Alkalinity, total (as caco3)	mg/L	MW-132	09/22/2010	yes	463.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	09/27/2011	yes	560.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	09/24/2012	yes	459.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	05/24/2016	yes	527.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	11/09/2016	yes	548.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	05/15/2017	yes	475.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	07/31/2018	yes	476.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	11/27/2018	yes	517.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	05/09/2019	yes	507.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	10/14/2019	yes	489.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	05/20/2020	yes	467.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	07/19/2021	yes	507.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	11/10/2022	yes	467.0000					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Alkalinity, total (as caco3)	mg/L	MW-132	05/11/2023	yes	432.0000					
Alkalinity, total (as caco3)	mg/L	MW-132	07/19/2024		496.0000			492.4286		
Alkalinity, total (as caco3)	mg/L	MW-132	11/03/2025		501.0000			492.4286		
Ammonia as n	mg/L	MW-132	07/31/2018	yes	0.3600					
Ammonia as n	mg/L	MW-132	11/27/2018	yes	0.3900					
Ammonia as n	mg/L	MW-132	05/09/2019	yes	0.5400					
Ammonia as n	mg/L	MW-132	10/14/2019	yes	0.4500					
Ammonia as n	mg/L	MW-132	05/20/2020	yes	0.4170					
Ammonia as n	mg/L	MW-132	07/19/2021	yes	0.3880					
Ammonia as n	mg/L	MW-132	11/10/2022	yes	0.5730					
Ammonia as n	mg/L	MW-132	05/11/2023	yes	0.5980					
Ammonia as n	mg/L	MW-132	07/19/2024		0.2160			0.4645		
Ammonia as n	mg/L	MW-132	11/03/2025		0.3570			0.4645		
Chloride	mg/L	MW-132	09/22/2010	yes	10.3000					
Chloride	mg/L	MW-132	09/24/2012	yes	8.7000					
Chloride	mg/L	MW-132	05/24/2016	yes	9.3000					
Chloride	mg/L	MW-132	11/09/2016	yes	8.0000					
Chloride	mg/L	MW-132	05/15/2017	yes	12.0000					
Chloride	mg/L	MW-132	07/31/2018	yes	6.4000					
Chloride	mg/L	MW-132	11/27/2018	yes	8.7000					
Chloride	mg/L	MW-132	05/09/2019	yes	8.2000					
Chloride	mg/L	MW-132	10/14/2019	yes	8.1000					
Chloride	mg/L	MW-132	05/20/2020	yes	7.3000					
Chloride	mg/L	MW-132	07/19/2021	yes	6.0000					
Chloride	mg/L	MW-132	11/10/2022	yes	4.6600					
Chloride	mg/L	MW-132	05/11/2023	yes	5.1800					
Chloride	mg/L	MW-132	07/19/2024		3.9100			7.9108		
Chloride	mg/L	MW-132	11/03/2025		4.0300			7.9108		
Sodium, total	mg/L	MW-132	09/22/2010	yes	67.5000					
Sodium, total	mg/L	MW-132	09/27/2011	yes	45.0000					
Sodium, total	mg/L	MW-132	09/24/2012	yes	55.3000					
Sodium, total	mg/L	MW-132	05/24/2016	yes	79.6000					
Sodium, total	mg/L	MW-132	11/09/2016	yes	64.5000					
Sodium, total	mg/L	MW-132	05/15/2017	yes	77.6000					
Sodium, total	mg/L	MW-132	07/31/2018	yes	54.3000					
Sodium, total	mg/L	MW-132	11/27/2018	yes	65.3000					
Sodium, total	mg/L	MW-132	05/09/2019	yes	74.7000					
Sodium, total	mg/L	MW-132	10/14/2019	yes	72.0000					
Sodium, total	mg/L	MW-132	05/20/2020	yes	55.0000					
Sodium, total	mg/L	MW-132	07/19/2021	yes	50.5000					
Sodium, total	mg/L	MW-132	11/10/2022	yes	55.5000					
Sodium, total	mg/L	MW-132	05/11/2023	yes	58.8000					
Sodium, total	mg/L	MW-132	07/19/2024		61.3000			62.5429		
Sodium, total	mg/L	MW-132	11/03/2025		52.1000			62.5429		
Alkalinity, total (as caco3)	mg/L	MW-133	09/22/2010	yes	579.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	09/27/2011	yes	576.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	09/24/2012	yes	502.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	10/14/2015	yes	525.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	05/24/2016	yes	553.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	11/09/2016	yes	537.0000					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Alkalinity, total (as caco3)	mg/L	MW-133	05/15/2017	yes	537.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	07/31/2018	yes	452.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	11/27/2018	yes	531.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	05/09/2019	yes	519.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	10/14/2019	yes	471.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	05/20/2020	yes	520.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	07/19/2021	yes	563.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	11/10/2022	yes	418.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	05/11/2023	yes	416.0000					
Alkalinity, total (as caco3)	mg/L	MW-133	07/19/2024		512.0000			513.2667		
Alkalinity, total (as caco3)	mg/L	MW-133	11/03/2025		561.0000			521.8391		
Ammonia as n	mg/L	MW-133	07/31/2018	yes	0.4000					
Ammonia as n	mg/L	MW-133	11/27/2018	yes	0.5200					
Ammonia as n	mg/L	MW-133	05/09/2019	yes	0.6200					
Ammonia as n	mg/L	MW-133	10/14/2019	yes	0.4600					
Ammonia as n	mg/L	MW-133	05/20/2020	yes	0.3850					
Ammonia as n	mg/L	MW-133	07/19/2021	yes	0.6890					
Ammonia as n	mg/L	MW-133	11/10/2022	yes	0.2890					
Ammonia as n	mg/L	MW-133	05/11/2023	yes	0.3750					
Ammonia as n	mg/L	MW-133	07/19/2024		0.4120			0.4673		
Ammonia as n	mg/L	MW-133	11/03/2025		0.5910			0.4673		
Chloride	mg/L	MW-133	09/22/2010	yes	21.4000					
Chloride	mg/L	MW-133	09/24/2012	yes	9.5000					
Chloride	mg/L	MW-133	10/14/2015	yes	7.2000					
Chloride	mg/L	MW-133	05/24/2016	yes	10.9000					
Chloride	mg/L	MW-133	11/09/2016	yes	9.6000					
Chloride	mg/L	MW-133	05/15/2017	yes	13.5000					
Chloride	mg/L	MW-133	07/31/2018	yes	9.0000					
Chloride	mg/L	MW-133	11/27/2018	yes	11.1000					
Chloride	mg/L	MW-133	05/09/2019	yes	11.7000					
Chloride	mg/L	MW-133	10/14/2019	yes	11.2000					
Chloride	mg/L	MW-133	05/20/2020	yes	9.9800					
Chloride	mg/L	MW-133	07/19/2021	yes	8.5300					
Chloride	mg/L	MW-133	11/10/2022	yes	8.4900					
Chloride	mg/L	MW-133	05/11/2023	yes	9.0600					
Chloride	mg/L	MW-133	07/19/2024		10.4000			10.7971		
Chloride	mg/L	MW-133	11/03/2025		10.1000			10.7971		
Sodium, total	mg/L	MW-133	09/22/2010	yes	51.6000					
Sodium, total	mg/L	MW-133	09/27/2011	yes	40.0000					
Sodium, total	mg/L	MW-133	09/24/2012	yes	28.8000					
Sodium, total	mg/L	MW-133	10/14/2015	yes	25.3000					
Sodium, total	mg/L	MW-133	05/24/2016	yes	34.6000					
Sodium, total	mg/L	MW-133	11/09/2016	yes	29.6000					
Sodium, total	mg/L	MW-133	05/15/2017	yes	30.1000					
Sodium, total	mg/L	MW-133	07/31/2018	yes	23.2000					
Sodium, total	mg/L	MW-133	11/27/2018	yes	28.3000					
Sodium, total	mg/L	MW-133	05/09/2019	yes	27.5000					
Sodium, total	mg/L	MW-133	10/14/2019	yes	26.9000					
Sodium, total	mg/L	MW-133	05/20/2020	yes	28.0000					
Sodium, total	mg/L	MW-133	07/19/2021	yes	25.3000					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Sodium, total	mg/L	MW-133	11/10/2022	yes	17.7000					
Sodium, total	mg/L	MW-133	05/11/2023	yes	21.4000					
Sodium, total	mg/L	MW-133	07/19/2024		23.8000			29.2200		
Sodium, total	mg/L	MW-133	11/03/2025		28.8000			29.2200		
Alkalinity, total (as caco3)	mg/L	MW-2A	09/22/2010	yes	510.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	09/27/2011	yes	60.3000		yes			*
Alkalinity, total (as caco3)	mg/L	MW-2A	09/25/2012	yes	469.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	05/25/2016	yes	514.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	11/10/2016	yes	513.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	05/16/2017	yes	507.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	07/31/2018	yes	504.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	11/27/2018	yes	489.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	05/10/2019	yes	511.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	10/15/2019	yes	486.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	05/19/2020	yes	514.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	07/19/2021	yes	539.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	11/11/2022	yes	503.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	05/11/2023	yes	503.0000					
Alkalinity, total (as caco3)	mg/L	MW-2A	07/19/2024		530.0000			517.4346		
Alkalinity, total (as caco3)	mg/L	MW-2A	11/04/2025		507.0000			507.1000		
Ammonia as n	mg/L	MW-2A	03/26/2008	yes	0.4000					
Ammonia as n	mg/L	MW-2A	06/26/2008	yes	0.6300					
Ammonia as n	mg/L	MW-2A	07/31/2018	yes	0.2800					
Ammonia as n	mg/L	MW-2A	11/27/2018	yes	0.1300					
Ammonia as n	mg/L	MW-2A	05/10/2019	yes	0.5200					
Ammonia as n	mg/L	MW-2A	10/15/2019	yes	0.0920					
Ammonia as n	mg/L	MW-2A	05/19/2020	yes	0.6420					
Ammonia as n	mg/L	MW-2A	07/19/2021	yes	0.1490					
Ammonia as n	mg/L	MW-2A	11/11/2022	yes	0.1000	ND				
Ammonia as n	mg/L	MW-2A	05/11/2023	yes	0.2460					
Ammonia as n	mg/L	MW-2A	07/19/2024		0.5930			0.3772		
Ammonia as n	mg/L	MW-2A	11/04/2025		0.1970			0.3189		
Chloride	mg/L	MW-2A	03/26/2008	yes	5.0000	ND				
Chloride	mg/L	MW-2A	06/26/2008	yes	1.5000					
Chloride	mg/L	MW-2A	09/22/2010	yes	1.2500					
Chloride	mg/L	MW-2A	09/25/2012	yes	1.1000					
Chloride	mg/L	MW-2A	05/25/2016	yes	1.6000					
Chloride	mg/L	MW-2A	11/10/2016	yes	1.3000					
Chloride	mg/L	MW-2A	05/16/2017	yes	2.3000					
Chloride	mg/L	MW-2A	07/31/2018	yes	1.9000					
Chloride	mg/L	MW-2A	11/27/2018	yes	2.5000					
Chloride	mg/L	MW-2A	05/10/2019	yes	2.5000					
Chloride	mg/L	MW-2A	10/15/2019	yes	2.0000					
Chloride	mg/L	MW-2A	05/19/2020	yes	1.0900					
Chloride	mg/L	MW-2A	07/19/2021	yes	1.1800					
Chloride	mg/L	MW-2A	11/11/2022	yes	1.3600					
Chloride	mg/L	MW-2A	05/11/2023	yes	1.1400					
Chloride	mg/L	MW-2A	07/19/2024		1.2400			1.8480		
Chloride	mg/L	MW-2A	11/04/2025		1.7800			1.8480		
Sodium, total	mg/L	MW-2A	09/22/2010	yes	79.7000					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Sodium, total	mg/L	MW-2A	09/27/2011	yes	74.7000					
Sodium, total	mg/L	MW-2A	03/29/2012	yes	70.6000					
Sodium, total	mg/L	MW-2A	09/25/2012	yes	73.9000					
Sodium, total	mg/L	MW-2A	05/25/2016	yes	78.6000					
Sodium, total	mg/L	MW-2A	11/10/2016	yes	76.8000					
Sodium, total	mg/L	MW-2A	05/16/2017	yes	76.1000					
Sodium, total	mg/L	MW-2A	07/31/2018	yes	73.9000					
Sodium, total	mg/L	MW-2A	11/27/2018	yes	76.2000					
Sodium, total	mg/L	MW-2A	05/10/2019	yes	72.2000					
Sodium, total	mg/L	MW-2A	10/15/2019	yes	75.5000					
Sodium, total	mg/L	MW-2A	05/19/2020	yes	73.2000					
Sodium, total	mg/L	MW-2A	07/19/2021	yes	71.0000					
Sodium, total	mg/L	MW-2A	11/11/2022	yes	75.9000					
Sodium, total	mg/L	MW-2A	05/11/2023	yes	79.3000					
Sodium, total	mg/L	MW-2A	07/19/2024		74.9000			75.1733		
Sodium, total	mg/L	MW-2A	11/04/2025		77.1000			75.1733		
Alkalinity, total (as caco3)	mg/L	MW-7A	09/26/2000	yes	235.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	09/17/2001	yes	333.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	09/30/2002	yes	390.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	09/29/2003	yes	338.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	09/20/2004	yes	316.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	09/19/2005	yes	373.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	09/27/2006	yes	403.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	09/19/2007	yes	379.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	09/29/2008	yes	492.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	09/22/2010	yes	447.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	09/27/2011	yes	154.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	09/25/2012	yes	216.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	05/25/2016	yes	320.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	11/10/2016	yes	357.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	05/16/2017	yes	172.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	07/31/2018	yes	261.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	10/15/2019	yes	73.3000					
Alkalinity, total (as caco3)	mg/L	MW-7A	05/19/2020	yes	442.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	07/19/2021	yes	197.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	11/11/2022	yes	436.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	05/11/2023	yes	429.0000					
Alkalinity, total (as caco3)	mg/L	MW-7A	07/19/2024		466.0000			381.6836		
Alkalinity, total (as caco3)	mg/L	MW-7A	11/03/2025		425.0000			400.3053		
Ammonia as n	mg/L	MW-7A	03/22/2000	yes	0.0990					
Ammonia as n	mg/L	MW-7A	09/26/2000	yes	0.0500	ND				
Ammonia as n	mg/L	MW-7A	03/28/2001	yes	0.1900					
Ammonia as n	mg/L	MW-7A	09/17/2001	yes	0.0890					
Ammonia as n	mg/L	MW-7A	03/28/2002	yes	0.1500					
Ammonia as n	mg/L	MW-7A	09/30/2002	yes	0.5500					
Ammonia as n	mg/L	MW-7A	03/18/2003	yes	0.4100					
Ammonia as n	mg/L	MW-7A	09/29/2003	yes	0.2800					
Ammonia as n	mg/L	MW-7A	03/18/2004	yes	0.1700					
Ammonia as n	mg/L	MW-7A	09/20/2004	yes	0.4100					
Ammonia as n	mg/L	MW-7A	03/28/2005	yes	0.5400					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Ammonia as n	mg/L	MW-7A	09/19/2005	yes	0.5200					
Ammonia as n	mg/L	MW-7A	03/21/2006	yes	0.4000					
Ammonia as n	mg/L	MW-7A	09/27/2006	yes	0.5400					
Ammonia as n	mg/L	MW-7A	03/29/2007	yes	0.4500					
Ammonia as n	mg/L	MW-7A	09/19/2007	yes	0.5600					
Ammonia as n	mg/L	MW-7A	03/26/2008	yes	0.5300					
Ammonia as n	mg/L	MW-7A	09/29/2008	yes	0.4800					
Ammonia as n	mg/L	MW-7A	07/31/2018	yes	0.0320					
Ammonia as n	mg/L	MW-7A	10/15/2019	yes	0.0200	ND			0.0500	***
Ammonia as n	mg/L	MW-7A	05/19/2020	yes	0.1250					
Ammonia as n	mg/L	MW-7A	07/19/2021	yes	0.1000	ND			0.0500	***
Ammonia as n	mg/L	MW-7A	11/11/2022	yes	0.1000	ND			0.0500	***
Ammonia as n	mg/L	MW-7A	05/11/2023	yes	0.1850					
Ammonia as n	mg/L	MW-7A	07/19/2024		0.2110			0.2879		
Ammonia as n	mg/L	MW-7A	11/03/2025		0.1000	ND		0.2879		
Chloride	mg/L	MW-7A	03/22/2000	yes	2.1000					
Chloride	mg/L	MW-7A	09/26/2000	yes	2.2000					
Chloride	mg/L	MW-7A	03/28/2001	yes	1.5000					
Chloride	mg/L	MW-7A	09/17/2001	yes	1.7000					
Chloride	mg/L	MW-7A	03/28/2002	yes	2.0000					
Chloride	mg/L	MW-7A	09/30/2002	yes	1.5000					
Chloride	mg/L	MW-7A	03/18/2003	yes	1.5000					
Chloride	mg/L	MW-7A	09/29/2003	yes	1.1000					
Chloride	mg/L	MW-7A	03/18/2004	yes	1.6000					
Chloride	mg/L	MW-7A	09/20/2004	yes	1.3000					
Chloride	mg/L	MW-7A	03/28/2005	yes	1.4000					
Chloride	mg/L	MW-7A	09/19/2005	yes	1.0000	ND				
Chloride	mg/L	MW-7A	03/21/2006	yes	1.3000					
Chloride	mg/L	MW-7A	09/27/2006	yes	1.0000	ND				
Chloride	mg/L	MW-7A	03/29/2007	yes	1.2000					
Chloride	mg/L	MW-7A	09/19/2007	yes	1.0000					
Chloride	mg/L	MW-7A	03/26/2008	yes	1.0000	ND				
Chloride	mg/L	MW-7A	09/29/2008	yes	1.2000					
Chloride	mg/L	MW-7A	09/22/2010	yes	0.4700					
Chloride	mg/L	MW-7A	09/25/2012	yes	7.0000					
Chloride	mg/L	MW-7A	05/25/2016	yes	4.4000					
Chloride	mg/L	MW-7A	11/10/2016	yes	4.4000					
Chloride	mg/L	MW-7A	05/16/2017	yes	11.9000					
Chloride	mg/L	MW-7A	07/31/2018	yes	6.6000					
Chloride	mg/L	MW-7A	10/15/2019	yes	42.2000					
Chloride	mg/L	MW-7A	05/19/2020	yes	1.4000					
Chloride	mg/L	MW-7A	07/19/2021	yes	32.2000					
Chloride	mg/L	MW-7A	09/23/2021	yes	18.9000					
Chloride	mg/L	MW-7A	04/14/2022	yes	32.6000					
Chloride	mg/L	MW-7A	11/11/2022	yes	1.0000	ND				
Chloride	mg/L	MW-7A	05/11/2023	yes	1.0000	ND				
Chloride	mg/L	MW-7A	07/19/2024		1.0000	ND		6.1184		
Chloride	mg/L	MW-7A	11/03/2025		7.0500			6.1184		
Sodium, total	mg/L	MW-7A	09/26/2000	yes	45.7000					
Sodium, total	mg/L	MW-7A	09/17/2001	yes	44.3000					

* - Outlier for that well and constituent.
** - Non-outlier detected sample Result and / or CUSUM value exceeds limit.
*** - ND value replaced with median RL.
**** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Sodium, total	mg/L	MW-7A	09/30/2002	yes	47.0000					
Sodium, total	mg/L	MW-7A	09/29/2003	yes	47.7000					
Sodium, total	mg/L	MW-7A	09/20/2004	yes	45.3000					
Sodium, total	mg/L	MW-7A	09/19/2005	yes	43.7000					
Sodium, total	mg/L	MW-7A	09/27/2006	yes	40.9000					
Sodium, total	mg/L	MW-7A	09/19/2007	yes	45.1000					
Sodium, total	mg/L	MW-7A	09/29/2008	yes	41.7000					
Sodium, total	mg/L	MW-7A	09/22/2010	yes	46.2000					
Sodium, total	mg/L	MW-7A	09/27/2011	yes	32.5000					
Sodium, total	mg/L	MW-7A	03/29/2012	yes	41.5000					
Sodium, total	mg/L	MW-7A	09/25/2012	yes	35.5000					
Sodium, total	mg/L	MW-7A	05/25/2016	yes	38.0000					
Sodium, total	mg/L	MW-7A	11/10/2016	yes	38.1000					
Sodium, total	mg/L	MW-7A	05/16/2017	yes	31.0000					
Sodium, total	mg/L	MW-7A	07/31/2018	yes	35.6000					
Sodium, total	mg/L	MW-7A	10/15/2019	yes	34.6000					
Sodium, total	mg/L	MW-7A	05/19/2020	yes	40.8000					
Sodium, total	mg/L	MW-7A	07/19/2021	yes	36.9000					
Sodium, total	mg/L	MW-7A	11/11/2022	yes	41.3000					
Sodium, total	mg/L	MW-7A	05/11/2023	yes	43.3000					
Sodium, total	mg/L	MW-7A	07/19/2024		40.8000			40.7591		
Sodium, total	mg/L	MW-7A	11/03/2025		40.6000			40.7591		

* - Outlier for that well and constituent.
** - Non-outlier detected sample Result and / or CUSUM value exceeds limit.
*** - ND value replaced with median RL.
**** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 4

Dixon's Test Outliers
1% Significance Level

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Alkalinity, total (as caco3)	mg/L	MW-110	09/27/2011	86.0000		09/26/2000-05/11/2023	21	0.5263
Ammonia as n	mg/L	MW-123	10/02/2008	0.1400		06/26/2003-05/11/2023	36	0.4273
Chloride	mg/L	MW-123	12/12/2011	9.5000		06/26/2003-05/11/2023	39	0.4157
Alkalinity, total (as caco3)	mg/L	MW-2A	09/27/2011	60.3000		09/22/2010-05/11/2023	14	0.6403

N = Total number of independent measurements in background at each well.
Date Range = Dates of the first and last measurements included in background at each well.
Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Alkalinity, total (as caco3) (mg/L) at GU-V-2
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **7684.0** / **12** = **640.333**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**5.29**x**10^6** - **5.90**x**10^7**/**12**) / (**12**-1))^{½} = **184.378**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **640.333** + **6.0** * **184.378** = **1746.6**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **12** * (**12**-1) / 2 = **66**	Number of sample pairs during trend detection period.
5	S = **-28.131**	Sen's estimator of trend.
6	var(S) = **212.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**66** - **2.326** * **212.667**^{½}) / 2 = **16.04**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-85.295**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Ammonia as n (mg/L) at GU-V-2
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **1.628** / **6** = **0.271**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**0.775** - **2.65**/**6**) / (**6**-1))^{½} = **0.258**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **0.271** + **6.0** * **0.258** = **1.82**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **6** * (**6**-1) / 2 = **15**	Number of sample pairs during trend detection period.
5	S = **-0.016**	Sen's estimator of trend.
6	var(S) = **24.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**15** - **2.326** * **24.667**^{½}) / 2 = **1.724**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.371**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Chloride (mg/L) at GU-V-2
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **595.6** / **12** = **49.633**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**35930.88** - **354739.36**/**12**) / (**12**-1))^{½} = **24.063**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **49.633** + **6.0** * **24.063** = **194.011**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **12** * (**12**-1) / 2 = **66**	Number of sample pairs during trend detection period.
5	S = **-6.427**	Sen's estimator of trend.
6	var(S) = **212.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**66** - **2.326** * **212.667**^{½}) / 2 = **16.04**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-11.063**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Sodium, total (mg/L) at GU-V-2
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **516.0** / **12** = **43.0**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**22277.16** - **266256.0**/**12**) / (**12**-1))^{½} = **2.847**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **43.0** + **6.0** * **2.847** = **60.082**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **12** * (**12**-1) / 2 = **66**	Number of sample pairs during trend detection period.
5	S = **0.094**	Sen's estimator of trend.
6	var(S) = **211.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**66** - **2.326** * **211.667**^{½}) / 2 = **16.08**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.347**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Alkalinity, total (as caco3) (mg/L) at MW-110
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **7795.0** / **20** = **389.75**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**3.08**x**10^6** - **6.08**x**10^7**/**20**) / (**20**-1))^{½} = **44.795**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **389.75** + **6.0** * **44.795** = **658.522**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **20** * (**20**-1) / 2 = **190**	Number of sample pairs during trend detection period.
5	S = **3.043**	Sen's estimator of trend.
6	var(S) = **949.0**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**190** - **2.326** * **949.0**^{½}) / 2 = **59.173**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.707**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Ammonia as n (mg/L) at MW-110
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **8.242** / **25** = **0.33**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**40.222** - **67.931**/**25**) / (**25**-1))^{½} = **1.25**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **0.33** + **6.0** * **1.25** = **7.83**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **25** * (**25**-1) / 2 = **300**	Number of sample pairs during trend detection period.
5	S = **0.0**	Sen's estimator of trend.
6	var(S) = **1425.0**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**300** - **2.326** * **1425.0**^{½}) / 2 = **106.098**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **0.0**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Chloride (mg/L) at MW-110
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **119.43** / **30** = **3.981**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**547.95** - **14263.525**/**30**) / (**30**-1))^{½} = **1.581**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **3.981** + **6.0** * **1.581** = **13.468**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **30** * (**30**-1) / 2 = **435**	Number of sample pairs during trend detection period.
5	S = **-0.184**	Sen's estimator of trend.
6	var(S) = **3134.0**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**435** - **2.326** * **3134.0**^{½}) / 2 = **152.393**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.241**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Sodium, total (mg/L) at MW-110
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **862.4** / **14** = **61.6**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**54675.82** - **743733.76**/**14**) / (**14**-1))^{½} = **10.926**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **61.6** + **6.0** * **10.926** = **127.158**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **14** * (**14**-1) / 2 = **91**	Number of sample pairs during trend detection period.
5	S = **1.074**	Sen's estimator of trend.
6	var(S) = **333.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**91** - **2.326** * **333.667**^{½}) / 2 = **24.256**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.935**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Alkalinity, total (as caco3) (mg/L) at MW-117
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **14020.0** / **29** = **483.448**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**6.80**x**10^6** - **1.97**x**10^8**/**29**) / (**29**-1))^{½} = **28.751**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **483.448** + **6.0** * **28.751** = **655.954**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **29** * (**29**-1) / 2 = **406**	Number of sample pairs during trend detection period.
5	S = **-1.849**	Sen's estimator of trend.
6	var(S) = **2832.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**406** - **2.326** * **2832.667**^{½}) / 2 = **141.102**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-5.117**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Ammonia as n (mg/L) at MW-117
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **18.983** / **26** = **0.73**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**15.808** - **360.354**/**26**) / (**26**-1))^{½} = **0.279**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **0.73** + **6.0** * **0.279** = **2.405**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **26** * (**26**-1) / 2 = **325**	Number of sample pairs during trend detection period.
5	S = **-0.016**	Sen's estimator of trend.
6	var(S) = **2053.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**325** - **2.326** * **2053.667**^{½}) / 2 = **109.796**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.056**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Chloride (mg/L) at MW-117
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **148.72** / **29** = **5.128**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**972.395** - **22117.638**/**29**) / (**29**-1))^{½} = **2.737**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **5.128** + **6.0** * **2.737** = **21.549**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **29** * (**29**-1) / 2 = **406**	Number of sample pairs during trend detection period.
5	S = **0.015**	Sen's estimator of trend.
6	var(S) = **2840.0**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**406** - **2.326** * **2840.0**^{½}) / 2 = **141.022**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.335**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Sodium, total (mg/L) at MW-117
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **788.3** / **11** = **71.664**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**56594.03** - **621416.89**/**11**) / (**11**-1))^{½} = **3.187**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **71.664** + **6.0** * **3.187** = **90.787**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **11** * (**11**-1) / 2 = **55**	Number of sample pairs during trend detection period.
5	S = **-0.472**	Sen's estimator of trend.
6	var(S) = **161.333**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**55** - **2.326** * **161.333**^{½}) / 2 = **12.728**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-2.034**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Alkalinity, total (as caco3) (mg/L) at MW-118
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **12978.0** / **29** = **447.517**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**5.83**x**10^6** - **1.68**x**10^8**/**29**) / (**29**-1))^{½} = **29.728**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **447.517** + **6.0** * **29.728** = **625.886**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **29** * (**29**-1) / 2 = **406**	Number of sample pairs during trend detection period.
5	S = **-1.579**	Sen's estimator of trend.
6	var(S) = **2833.333**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**406** - **2.326** * **2833.333**^{½}) / 2 = **141.095**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-4.622**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Ammonia as n (mg/L) at MW-118
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **15.354** / **26** = **0.591**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**9.827** - **235.745**/**26**) / (**26**-1))^{½} = **0.174**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **0.591** + **6.0** * **0.174** = **1.636**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **26** * (**26**-1) / 2 = **325**	Number of sample pairs during trend detection period.
5	S = **-0.024**	Sen's estimator of trend.
6	var(S) = **2055.333**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**325** - **2.326** * **2055.333**^{½}) / 2 = **109.774**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.057**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Chloride (mg/L) at MW-118
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **39.52** / **29** = **1.363**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**83.999** - **1561.83**/**29**) / (**29**-1))^{½} = **1.038**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **1.363** + **6.0** * **1.038** = **7.588**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **29** * (**29**-1) / 2 = **406**	Number of sample pairs during trend detection period.
5	S = **0.0**	Sen's estimator of trend.
6	var(S) = **2746.0**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**406** - **2.326** * **2746.0**^{½}) / 2 = **142.056**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.069**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Sodium, total (mg/L) at MW-118
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **636.6** / **11** = **57.873**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**36879.02** - **405259.56**/**11**) / (**11**-1))^{½} = **1.93**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **57.873** + **6.0** * **1.93** = **69.452**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **11** * (**11**-1) / 2 = **55**	Number of sample pairs during trend detection period.
5	S = **0.294**	Sen's estimator of trend.
6	var(S) = **164.0**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**55** - **2.326** * **164.0**^{½}) / 2 = **12.606**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.587**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Alkalinity, total (as caco3) (mg/L) at MW-123
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **16432.0** / **39** = **421.333**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**6.98**x**10^6** - **2.70**x**10^8**/**39**) / (**39**-1))^{½} = **37.8**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **421.333** + **6.0** * **37.8** = **648.131**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
5	S = **0.0**	Sen's estimator of trend.
6	var(S) = **6826.0**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**741** - **2.326** * **6826.0**^{½}) / 2 = **274.413**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-2.253**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Ammonia as n (mg/L) at MW-123
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **17.303** / **35** = **0.494**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**8.905** - **299.394**/**35**) / (**35**-1))^{½} = **0.102**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **0.494** + **6.0** * **0.102** = **1.104**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **35** * (**35**-1) / 2 = **595**	Number of sample pairs during trend detection period.
5	S = **0.003**	Sen's estimator of trend.
6	var(S) = **4944.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**595** - **2.326** * **4944.667**^{½}) / 2 = **215.72**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.005**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Chloride (mg/L) at MW-123
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **87.66** / **38** = **2.307**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**215.472** - **7684.276**/**38**) / (**38**-1))^{½} = **0.599**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **2.307** + **6.0** * **0.599** = **5.898**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **38** * (**38**-1) / 2 = **703**	Number of sample pairs during trend detection period.
5	S = **0.039**	Sen's estimator of trend.
6	var(S) = **6299.333**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**703** - **2.326** * **6299.333**^{½}) / 2 = **259.195**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.002**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Sodium, total (mg/L) at MW-123
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **301.1** / **11** = **27.373**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**8249.51** - **90661.21**/**11**) / (**11**-1))^{½} = **0.871**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **27.373** + **6.0** * **0.871** = **32.597**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **11** * (**11**-1) / 2 = **55**	Number of sample pairs during trend detection period.
5	S = **0.0**	Sen's estimator of trend.
6	var(S) = **164.0**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**55** - **2.326** * **164.0**^{½}) / 2 = **12.606**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.421**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Alkalinity, total (as caco3) (mg/L) at MW-132
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **6894.0** / **14** = **492.429**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**3.41**x**10^6** - **4.75**x**10^7**/**14**) / (**14**-1))^{½} = **36.576**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **492.429** + **6.0** * **36.576** = **711.884**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **14** * (**14**-1) / 2 = **91**	Number of sample pairs during trend detection period.
5	S = **-4.988**	Sen's estimator of trend.
6	var(S) = **331.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**91** - **2.326** * **331.667**^{½}) / 2 = **24.32**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-14.594**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Ammonia as n (mg/L) at MW-132
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **3.716** / **8** = **0.465**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.786** - **13.809**/**8**) / (**8**-1))^{½} = **0.093**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **0.465** + **6.0** * **0.093** = **1.02**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **8** * (**8**-1) / 2 = **28**	Number of sample pairs during trend detection period.
5	S = **0.044**	Sen's estimator of trend.
6	var(S) = **65.333**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**28** - **2.326** * **65.333**^{½}) / 2 = **4.6**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.043**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Chloride (mg/L) at MW-132
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **102.84** / **13** = **7.911**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**863.608** - **10576.066**/**13**) / (**13**-1))^{½} = **2.043**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **7.911** + **6.0** * **2.043** = **20.166**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **13** * (**13**-1) / 2 = **78**	Number of sample pairs during trend detection period.
5	S = **-0.43**	Sen's estimator of trend.
6	var(S) = **267.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**78** - **2.326** * **267.667**^{½}) / 2 = **19.973**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-1.01**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Sodium, total (mg/L) at MW-132
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **875.6** / **14** = **62.543**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**56247.12** - **766675.36**/**14**) / (**14**-1))^{½} = **10.686**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **62.543** + **6.0** * **10.686** = **126.661**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **14** * (**14**-1) / 2 = **91**	Number of sample pairs during trend detection period.
5	S = **-0.544**	Sen's estimator of trend.
6	var(S) = **333.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**91** - **2.326** * **333.667**^{½}) / 2 = **24.256**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-3.834**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Alkalinity, total (as caco3) (mg/L) at MW-133
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **7699.0** / **15** = **513.267**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**3.99**x**10^6** - **5.93**x**10^7**/**15**) / (**15**-1))^{½} = **52.214**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **513.267** + **6.0** * **52.214** = **826.554**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **15** * (**15**-1) / 2 = **105**	Number of sample pairs during trend detection period.
5	S = **-7.534**	Sen's estimator of trend.
6	var(S) = **407.333**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**105** - **2.326** * **407.333**^{½}) / 2 = **29.028**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-17.219**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Ammonia as n (mg/L) at MW-133
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **3.738** / **8** = **0.467**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.873** - **13.973**/**8**) / (**8**-1))^{½} = **0.135**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **0.467** + **6.0** * **0.135** = **1.275**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **8** * (**8**-1) / 2 = **28**	Number of sample pairs during trend detection period.
5	S = **-0.025**	Sen's estimator of trend.
6	var(S) = **65.333**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**28** - **2.326** * **65.333**^{½}) / 2 = **4.6**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.145**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Chloride (mg/L) at MW-133
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **151.16** / **14** = **10.797**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1786.335** - **22849.346**/**14**) / (**14**-1))^{½} = **3.444**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **10.797** + **6.0** * **3.444** = **31.464**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **14** * (**14**-1) / 2 = **91**	Number of sample pairs during trend detection period.
5	S = **-0.228**	Sen's estimator of trend.
6	var(S) = **333.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**91** - **2.326** * **333.667**^{½}) / 2 = **24.256**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.976**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Sodium, total (mg/L) at MW-133
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **438.3** / **15** = **29.22**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**13725.75** - **192106.89**/**15**) / (**15**-1))^{½} = **8.1**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **29.22** + **6.0** * **8.1** = **77.822**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **15** * (**15**-1) / 2 = **105**	Number of sample pairs during trend detection period.
5	S = **-1.453**	Sen's estimator of trend.
6	var(S) = **407.333**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**105** - **2.326** * **407.333**^{½}) / 2 = **29.028**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-2.401**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Alkalinity, total (as caco3) (mg/L) at MW-2A
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **6562.0** / **13** = **504.769**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**3.32**x**10^6** - **4.31**x**10^7**/**13**) / (**13**-1))^{½} = **16.754**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **504.769** + **6.0** * **16.754** = **605.292**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **13** * (**13**-1) / 2 = **78**	Number of sample pairs during trend detection period.
5	S = **-0.105**	Sen's estimator of trend.
6	var(S) = **266.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**78** - **2.326** * **266.667**^{½}) / 2 = **20.008**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-2.647**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Ammonia as n (mg/L) at MW-2A
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **3.189** / **10** = **0.319**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.436** - **10.17**/**10**) / (**10**-1))^{½} = **0.216**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **0.319** + **6.0** * **0.216** = **1.613**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **10** * (**10**-1) / 2 = **45**	Number of sample pairs during trend detection period.
5	S = **-0.019**	Sen's estimator of trend.
6	var(S) = **125.0**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**45** - **2.326** * **125.0**^{½}) / 2 = **9.497**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.058**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Chloride (mg/L) at MW-2A
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **27.72** / **15** = **1.848**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**65.402** - **768.398**/**15**) / (**15**-1))^{½} = **1.006**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **1.848** + **6.0** * **1.006** = **7.886**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **15** * (**15**-1) / 2 = **105**	Number of sample pairs during trend detection period.
5	S = **-0.024**	Sen's estimator of trend.
6	var(S) = **407.333**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**105** - **2.326** * **407.333**^{½}) / 2 = **29.028**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.255**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Sodium, total (mg/L) at MW-2A
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **1127.6** / **15** = **75.173**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**84874.44** - **1.27**x**10^6**/**15**) / (**15**-1))^{½} = **2.79**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **75.173** + **6.0** * **2.79** = **91.914**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **15** * (**15**-1) / 2 = **105**	Number of sample pairs during trend detection period.
5	S = **-0.15**	Sen's estimator of trend.
6	var(S) = **407.333**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**105** - **2.326** * **407.333**^{½}) / 2 = **29.028**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.913**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Alkalinity, total (as caco3) (mg/L) at MW-7A
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **6763.3** / **21** = **322.062**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**2.43**x**10^6** - **4.57**x**10^7**/**21**) / (**21**-1))^{½} = **112.422**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **322.062** + **6.0** * **112.422** = **996.593**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **21** * (**21**-1) / 2 = **210**	Number of sample pairs during trend detection period.
5	S = **-0.701**	Sen's estimator of trend.
6	var(S) = **1096.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**210** - **2.326** * **1096.667**^{½}) / 2 = **66.486**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-10.742**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Ammonia as n (mg/L) at MW-7A
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **6.91** / **24** = **0.288**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**2.924** - **47.748**/**24**) / (**24**-1))^{½} = **0.202**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **0.288** + **6.0** * **0.202** = **1.497**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **24** * (**24**-1) / 2 = **276**	Number of sample pairs during trend detection period.
5	S = **0.0**	Sen's estimator of trend.
6	var(S) = **1614.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**276** - **2.326** * **1614.667**^{½}) / 2 = **91.267**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.013**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Chloride (mg/L) at MW-7A
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **189.67** / **31** = **6.118**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**4553.601** - **35974.709**/**31**) / (**31**-1))^{½} = **10.635**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **6.118** + **6.0** * **10.635** = **69.929**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **31** * (**31**-1) / 2 = **465**	Number of sample pairs during trend detection period.
5	S = **0.007**	Sen's estimator of trend.
6	var(S) = **3425.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**465** - **2.326** * **3425.667**^{½}) / 2 = **164.431**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.049**	One-sided lower confidence limit for slope.

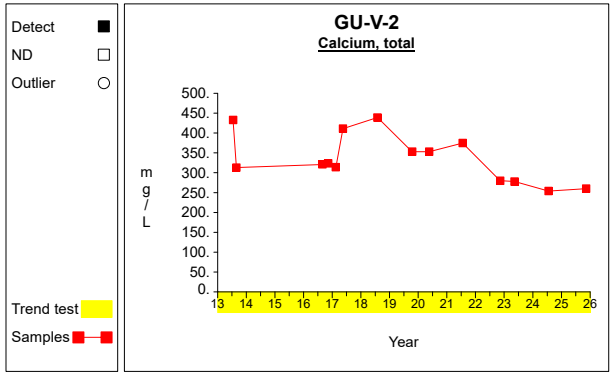
Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Sodium, total (mg/L) at MW-7A
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **896.7** / **22** = **40.759**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**37043.91** - **804070.89**/**22**) / (**22**-1))^{½} = **4.856**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **40.759** + **6.0** * **4.856** = **69.896**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **22** * (**22**-1) / 2 = **231**	Number of sample pairs during trend detection period.
5	S = **-0.415**	Sen's estimator of trend.
6	var(S) = **1257.667**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**231** - **2.326** * **1257.667**^{½}) / 2 = **74.256**	Ordinal position for one-sided lower confidence limit for slope. The LCL is the M_1^{th} largest slope estimate. When M_1 is not an integer, interpolation is used.
8	LCL(S) = **-0.735**	One-sided lower confidence limit for slope.

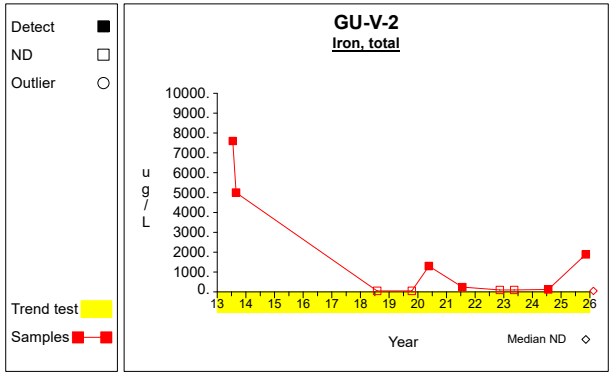
Attachment C

Time Series Plots of Supplemental Parameters

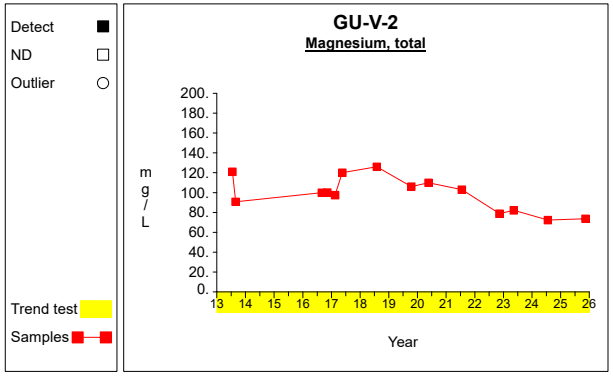
Time Series



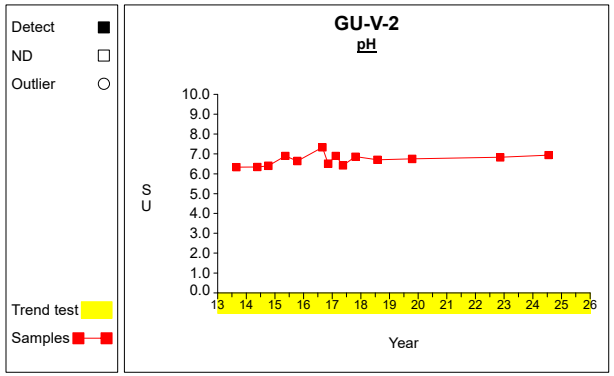
Graph 1



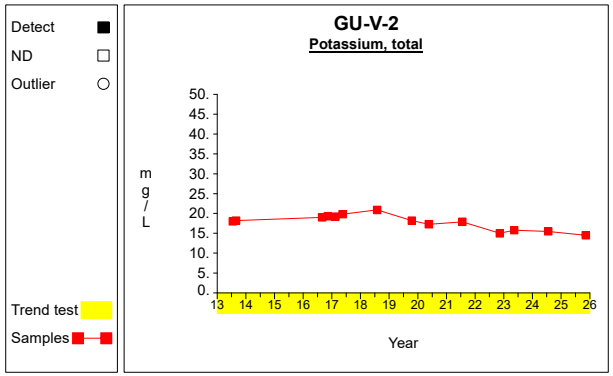
Graph 2



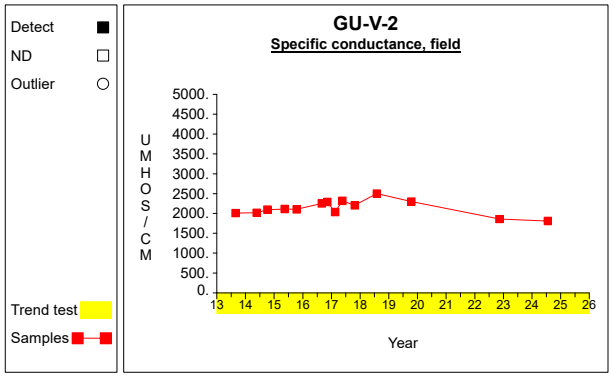
Graph 3



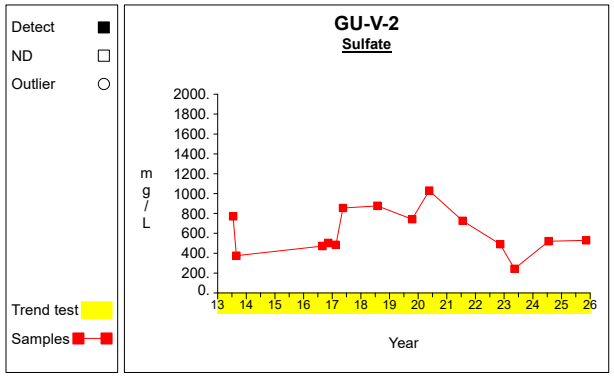
Graph 4



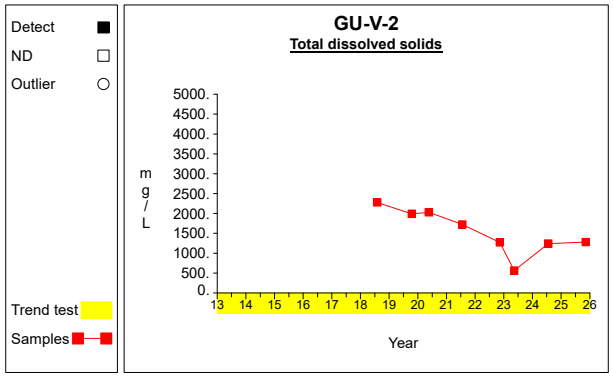
Graph 5



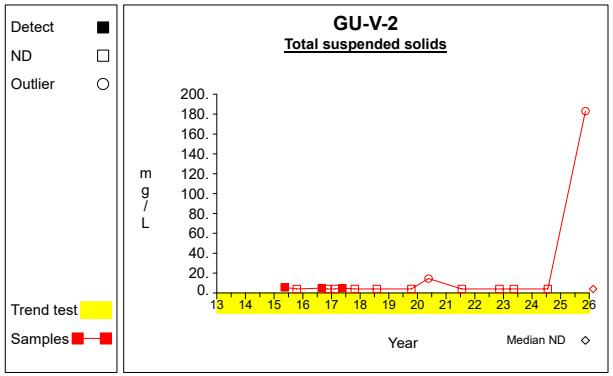
Graph 6



Graph 7



Graph 8



Graph 9

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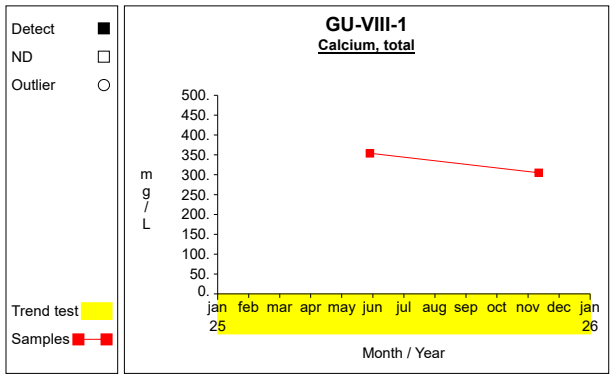
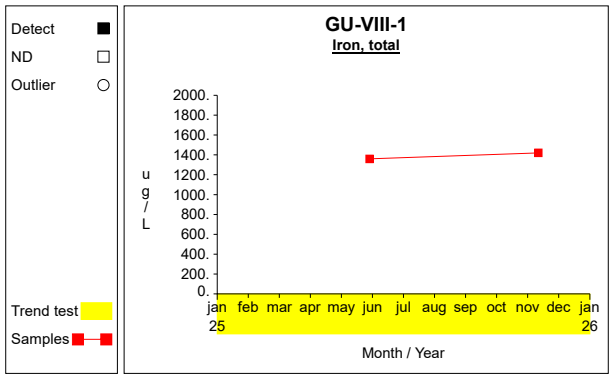
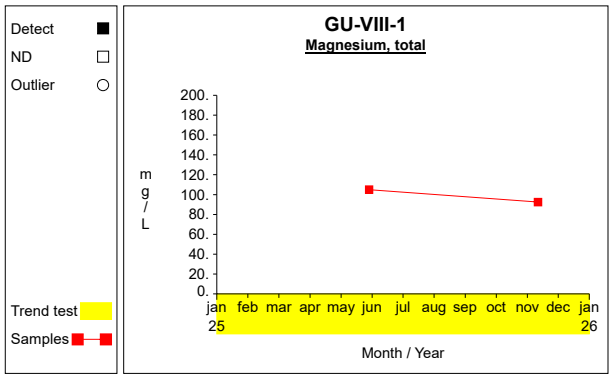
Time Series



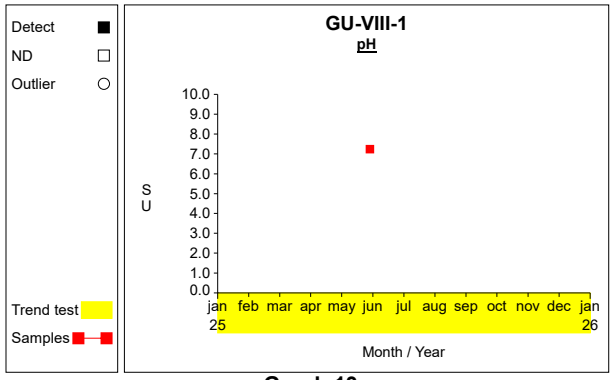
Graph 10



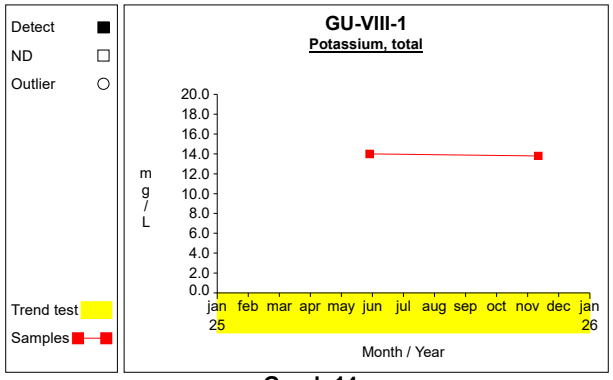
Graph 11



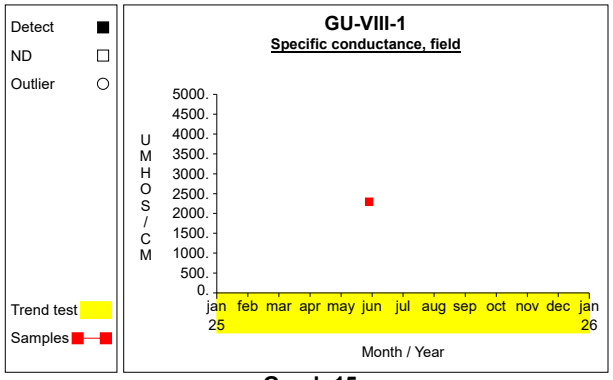
Graph 12



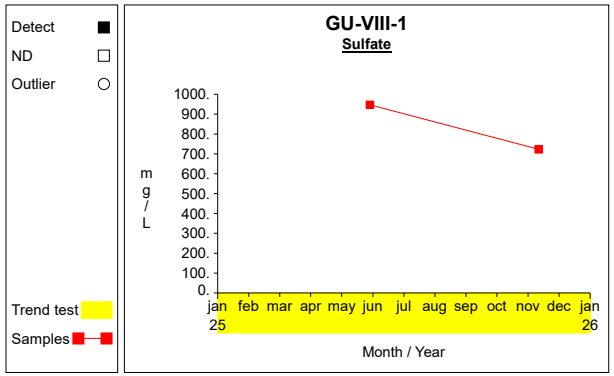
Graph 13



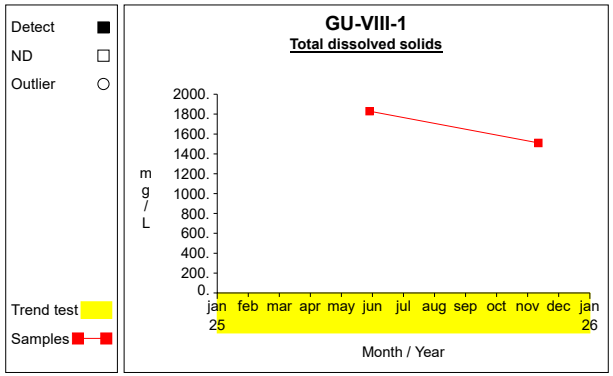
Graph 14



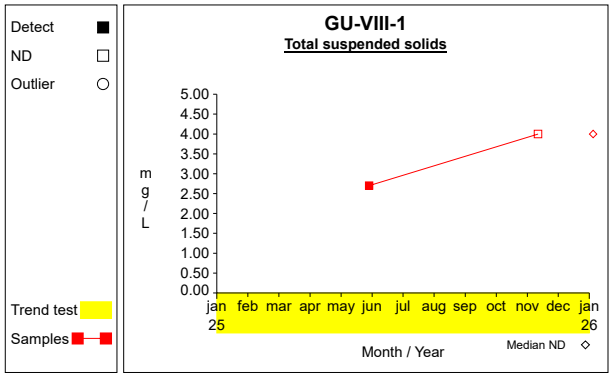
Graph 15



Graph 16



Graph 17



Graph 18

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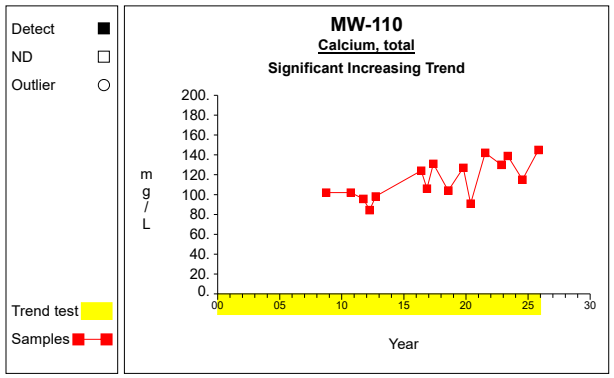
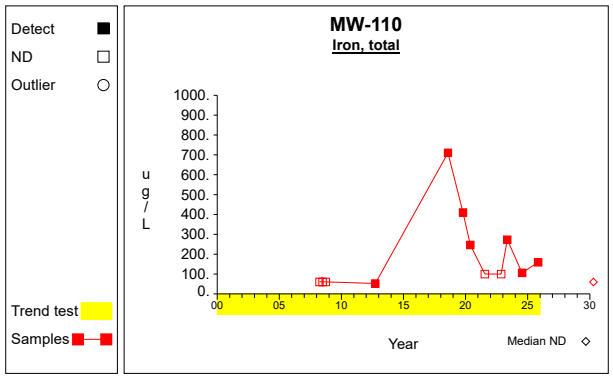
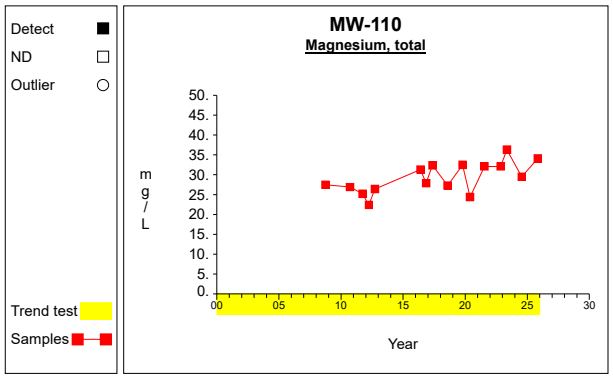
Time Series



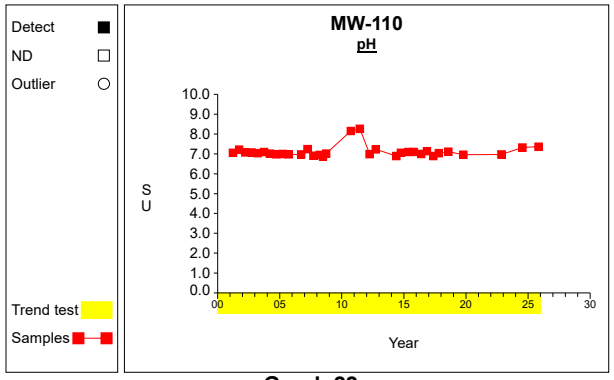
Graph 19



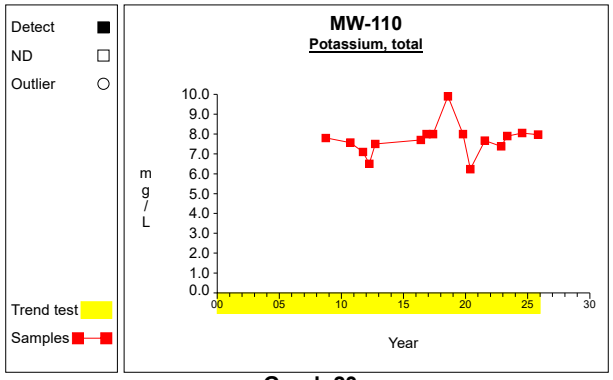
Graph 20



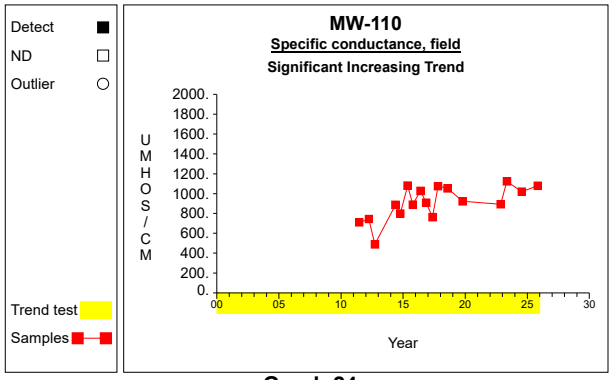
Graph 21



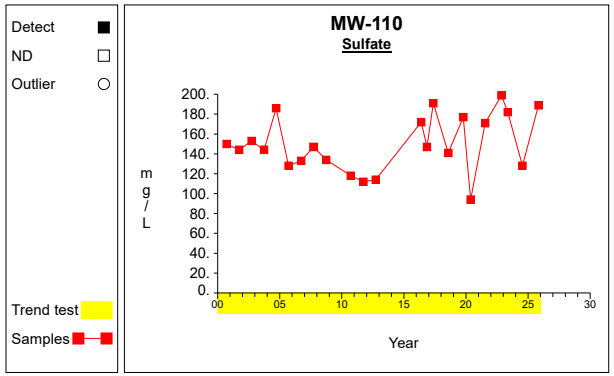
Graph 22



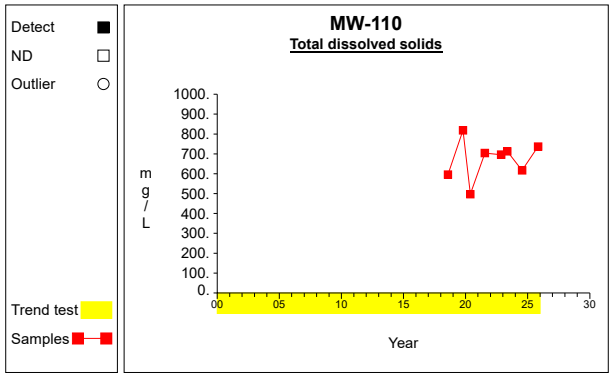
Graph 23



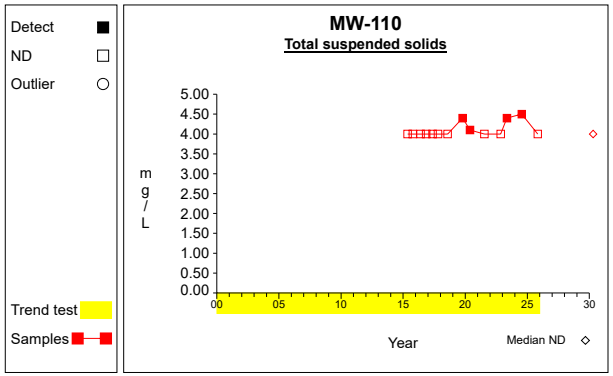
Graph 24



Graph 25



Graph 26



Graph 27

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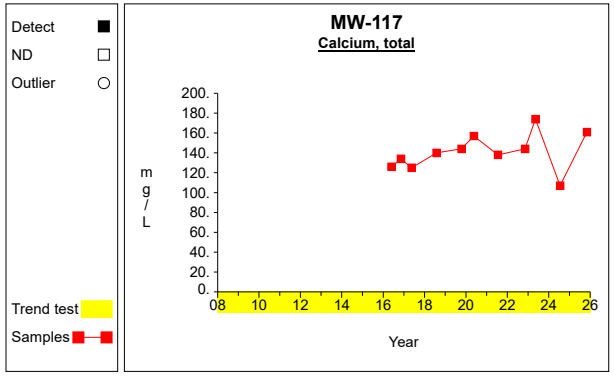
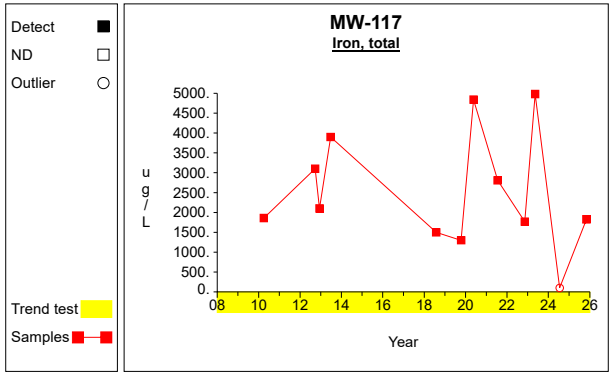
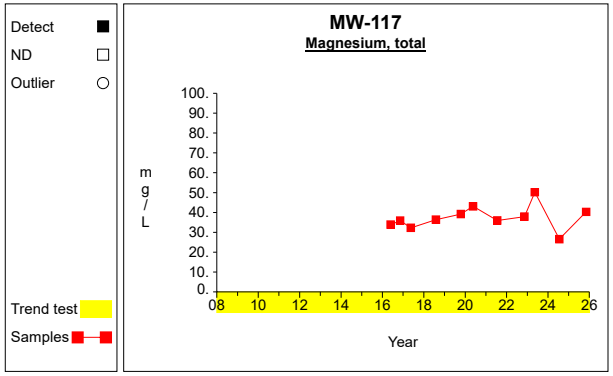
Time Series



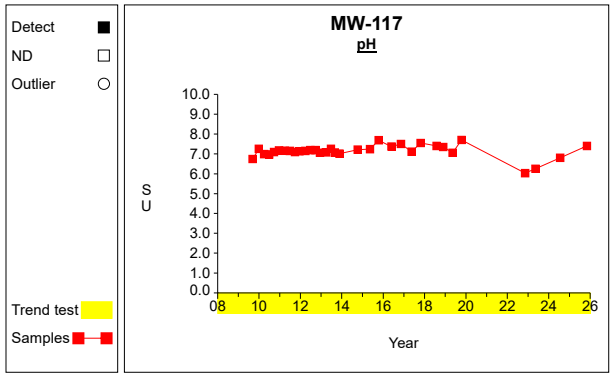
Graph 28



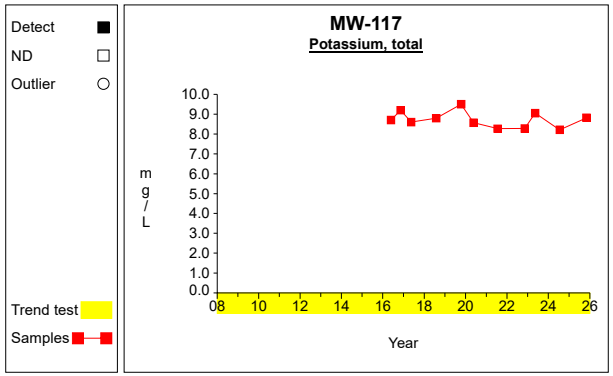
Graph 29



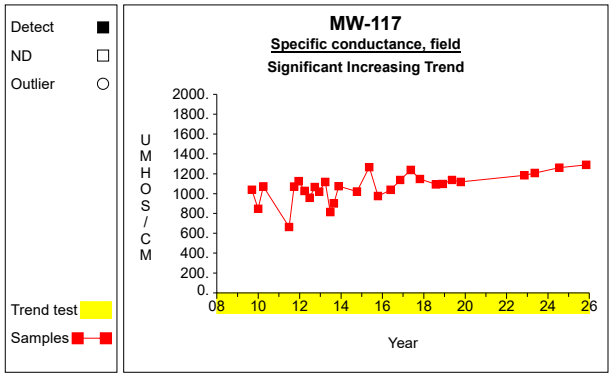
Graph 30



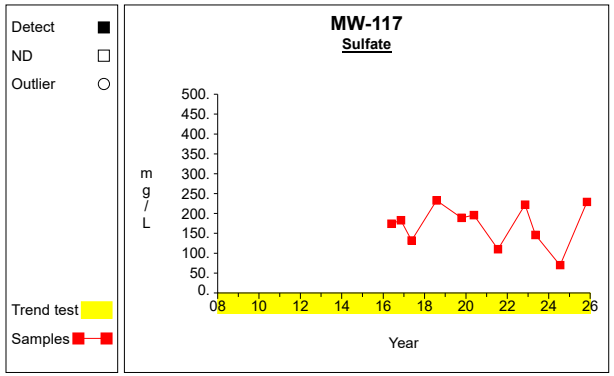
Graph 31



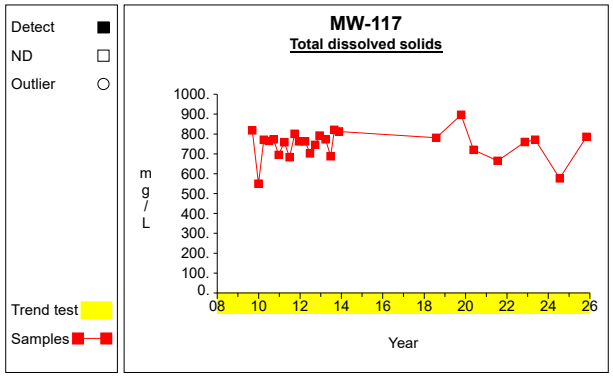
Graph 32



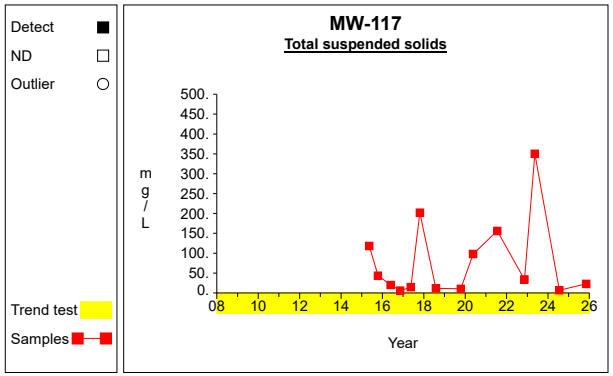
Graph 33



Graph 34



Graph 35



Graph 36

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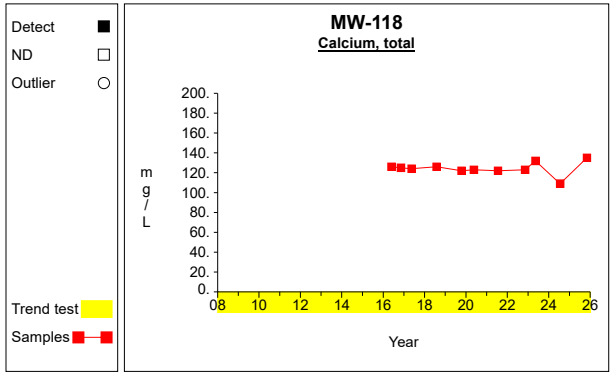
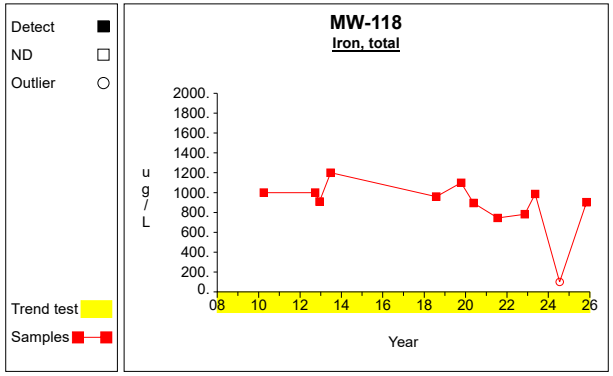
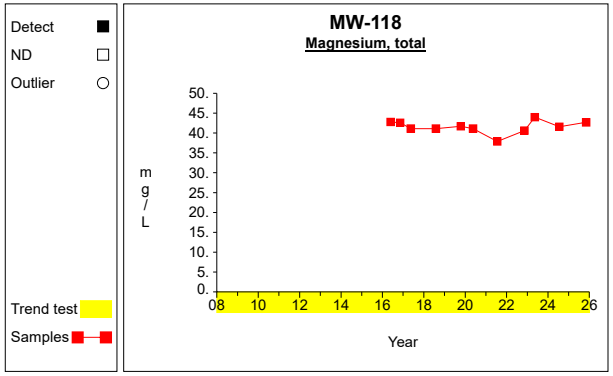
Time Series



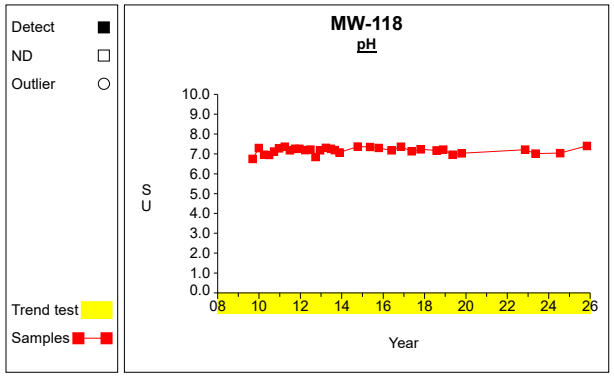
Graph 37



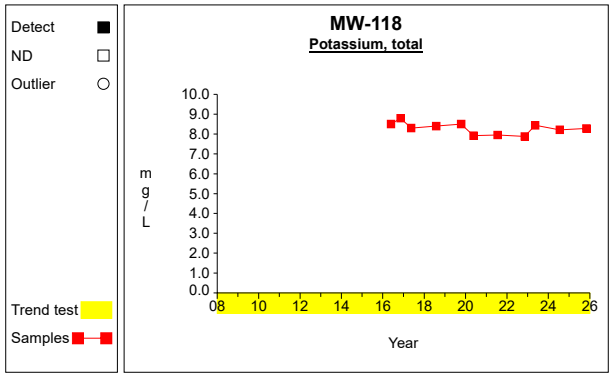
Graph 38



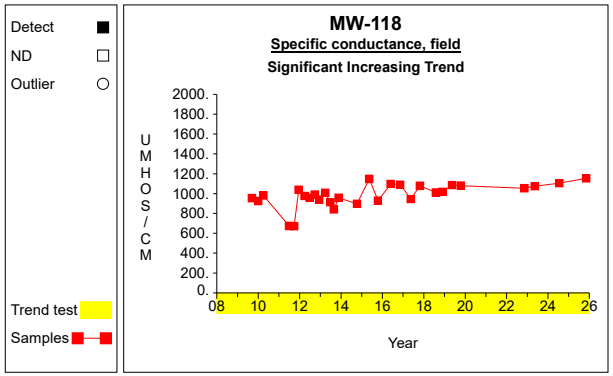
Graph 39



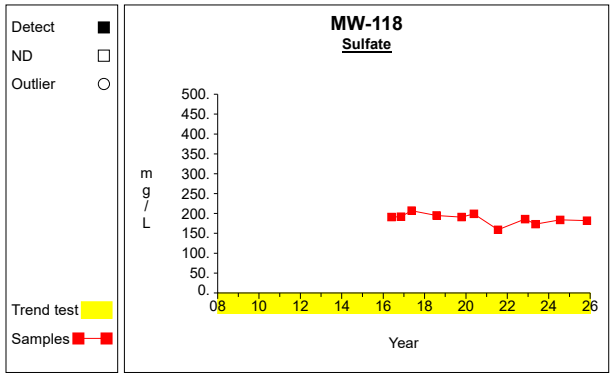
Graph 40



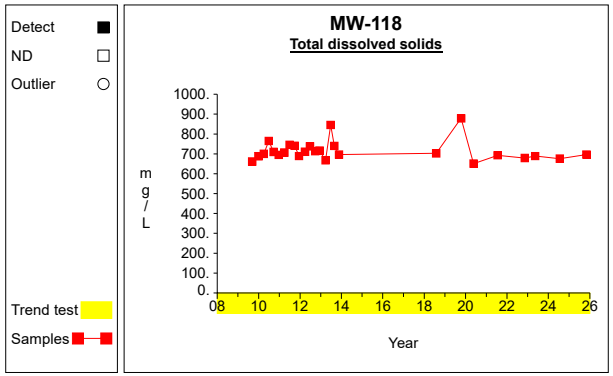
Graph 41



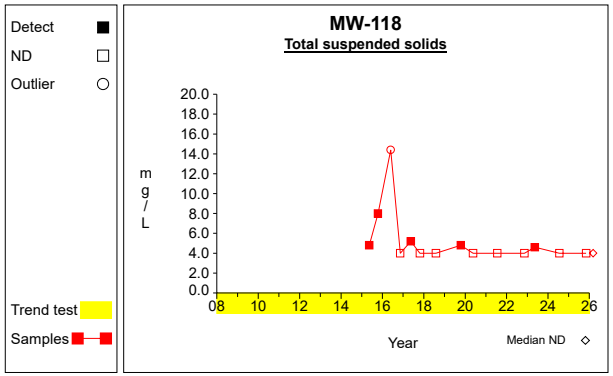
Graph 42



Graph 43



Graph 44



Graph 45

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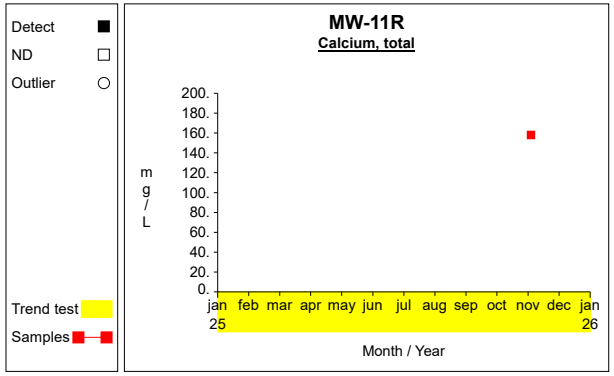
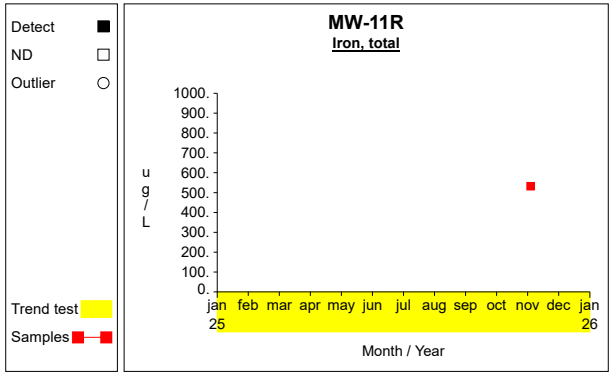
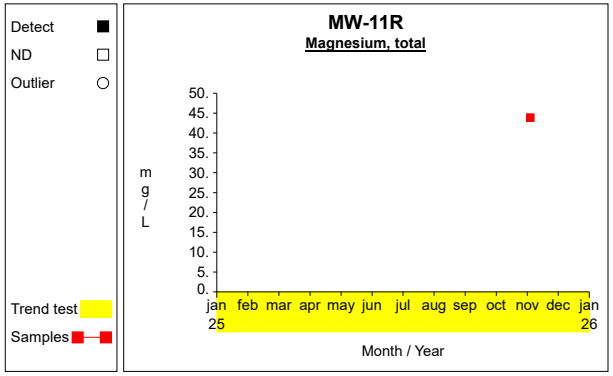


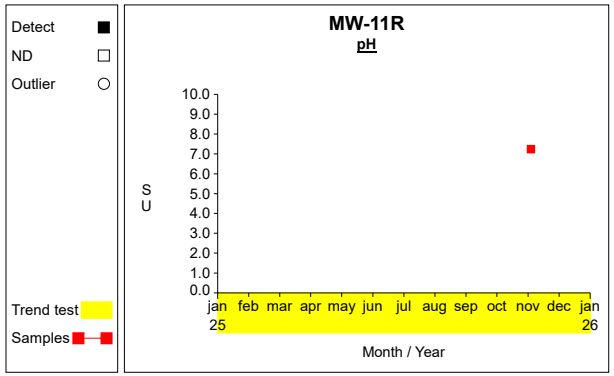
Graph 46



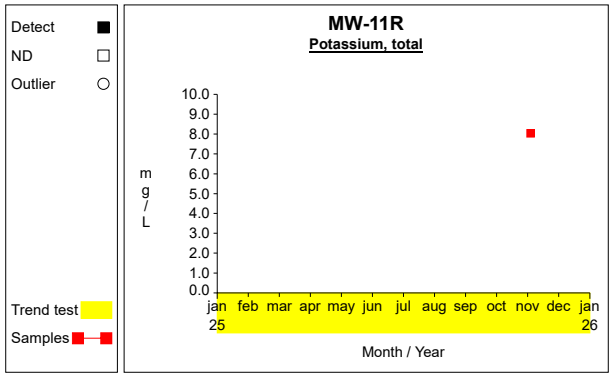
Graph 47



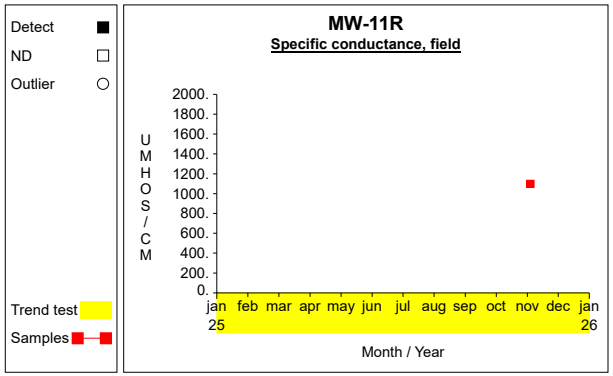
Graph 48



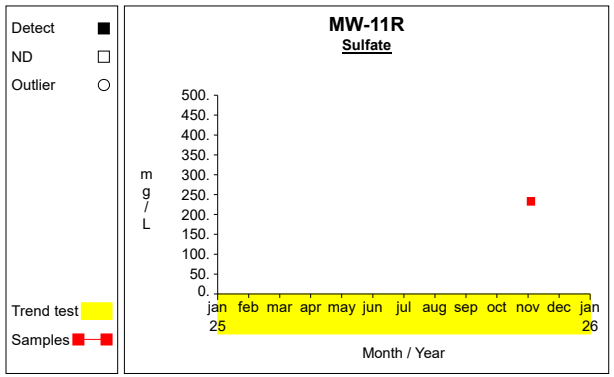
Graph 49



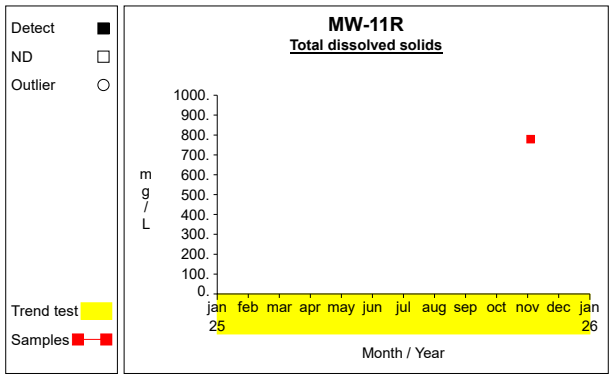
Graph 50



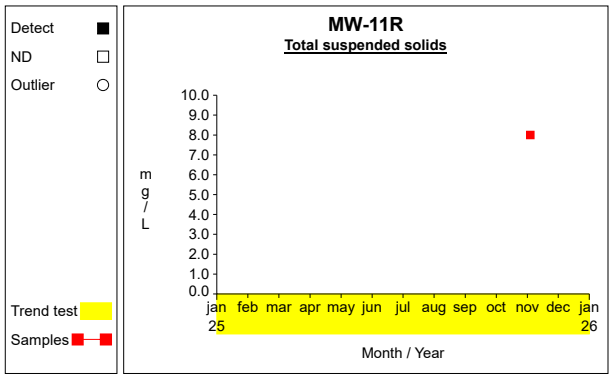
Graph 51



Graph 52



Graph 53



Graph 54

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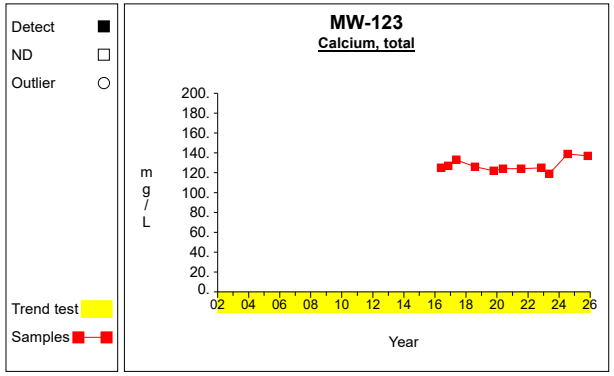
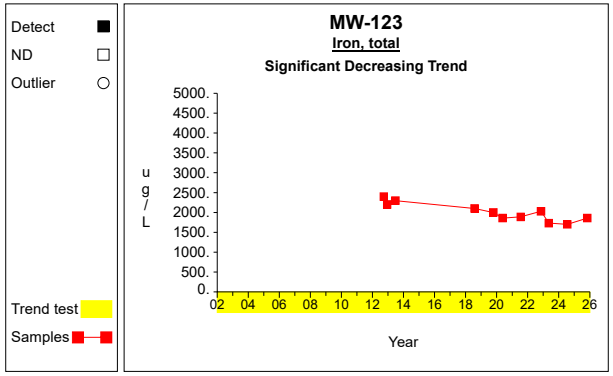
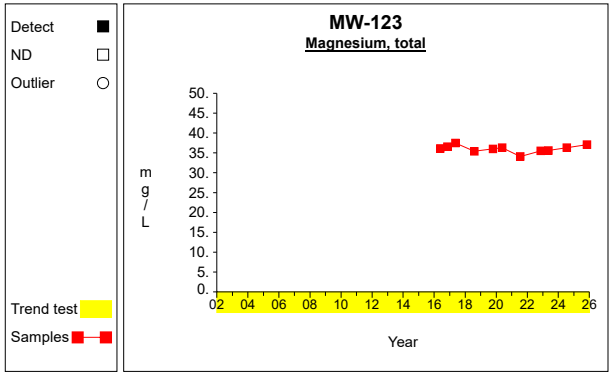


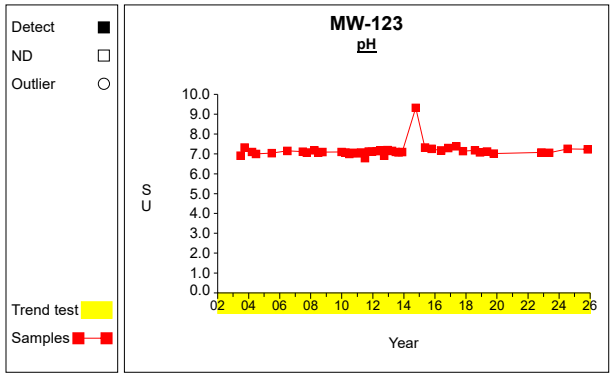
Graph 55



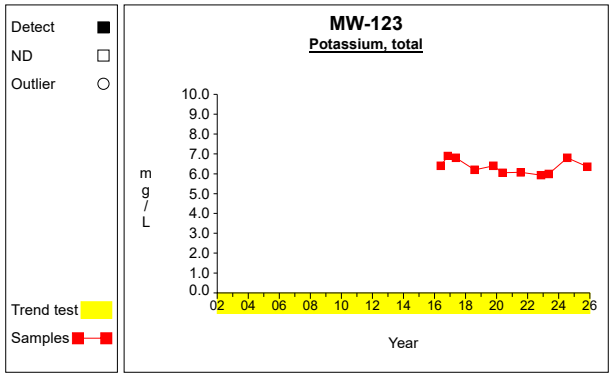
Graph 56



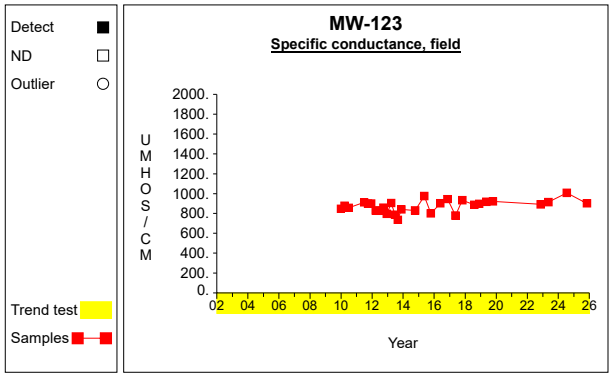
Graph 57



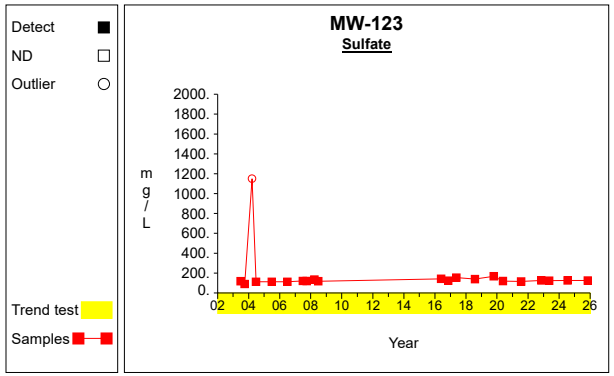
Graph 58



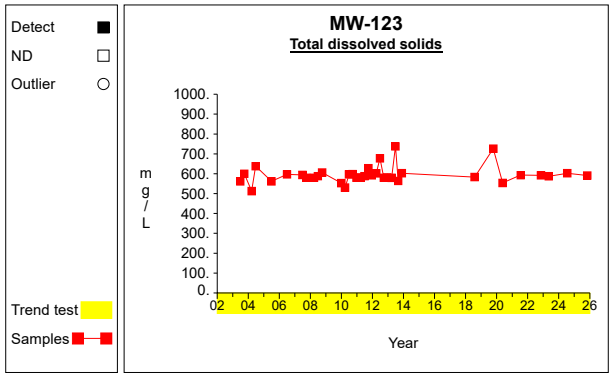
Graph 59



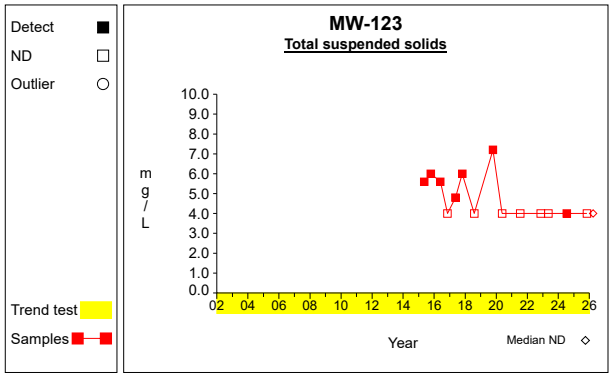
Graph 60



Graph 61



Graph 62



Graph 63

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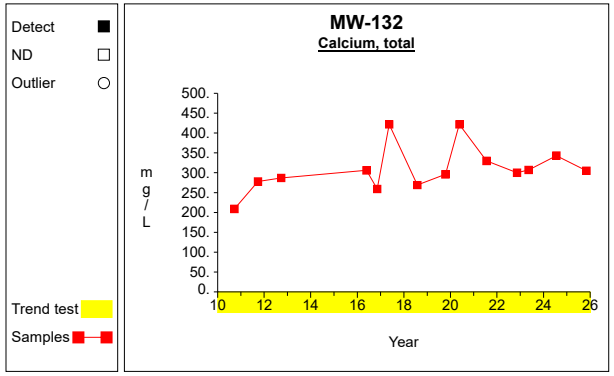
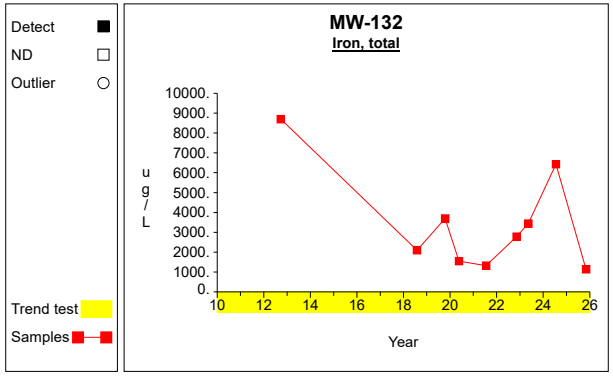
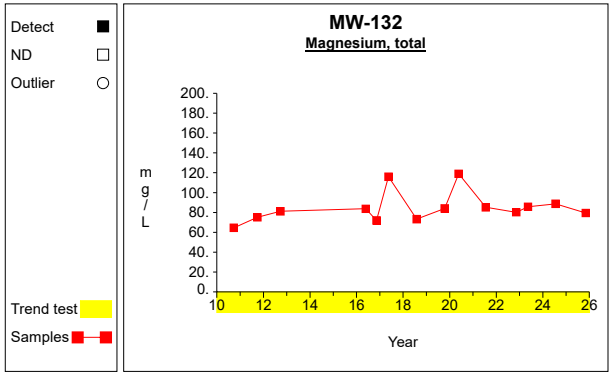


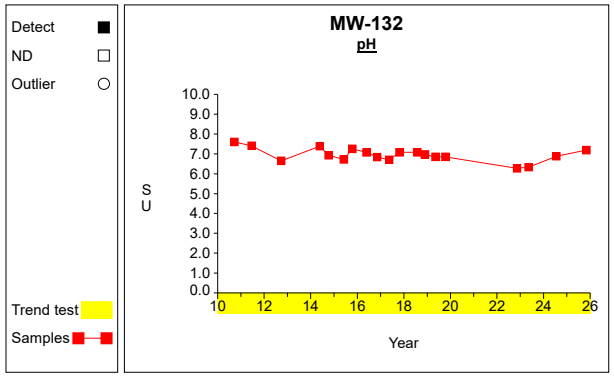
Graph 64



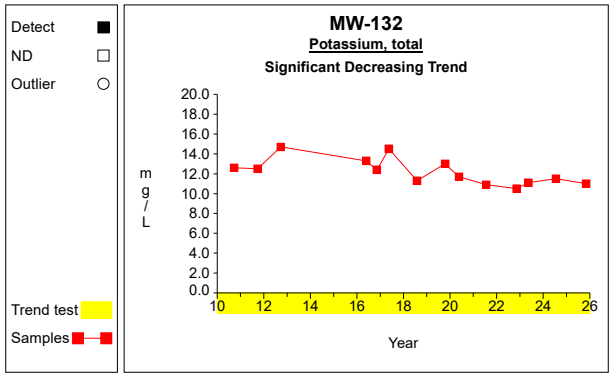
Graph 65



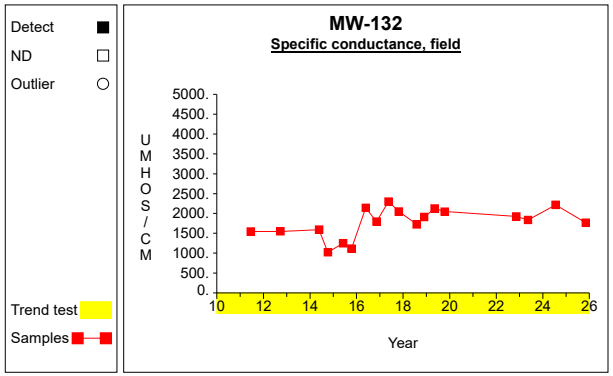
Graph 66



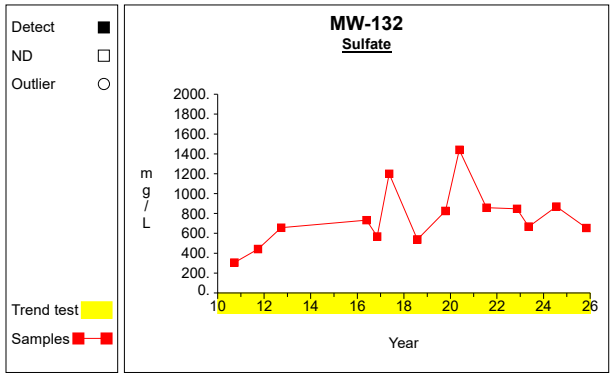
Graph 67



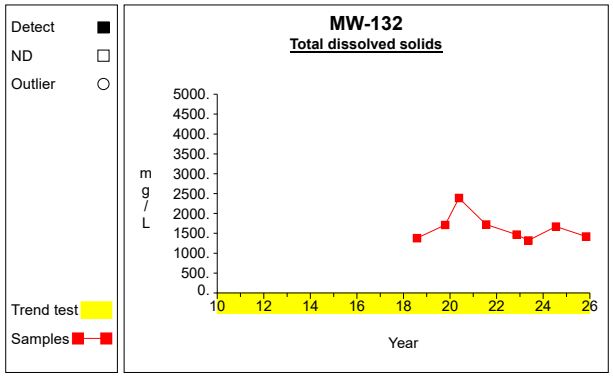
Graph 68



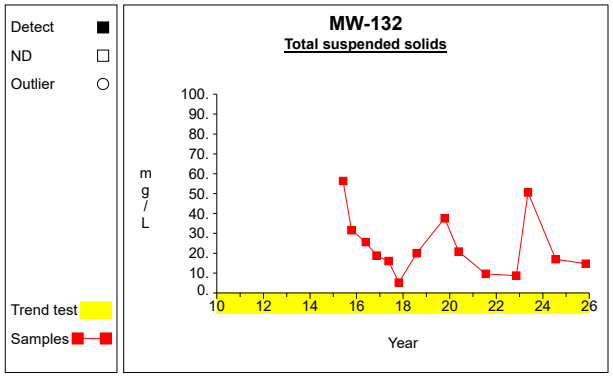
Graph 69



Graph 70



Graph 71



Graph 72

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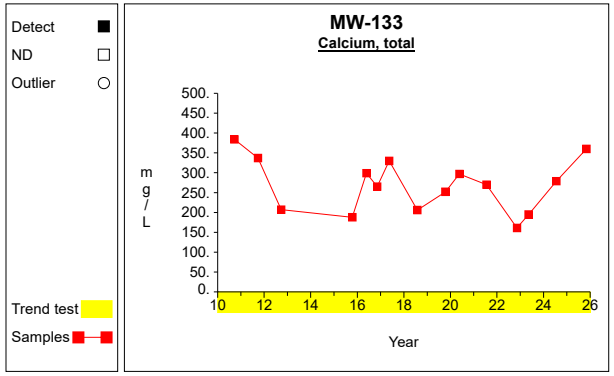
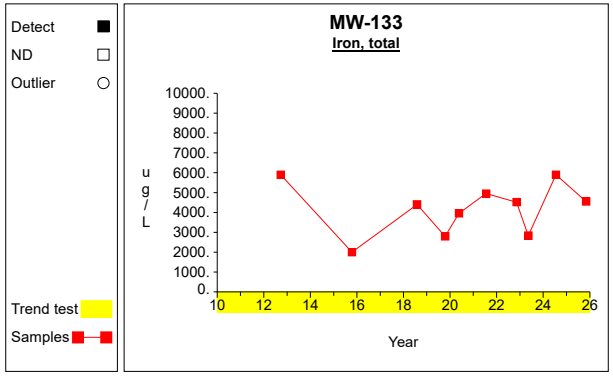
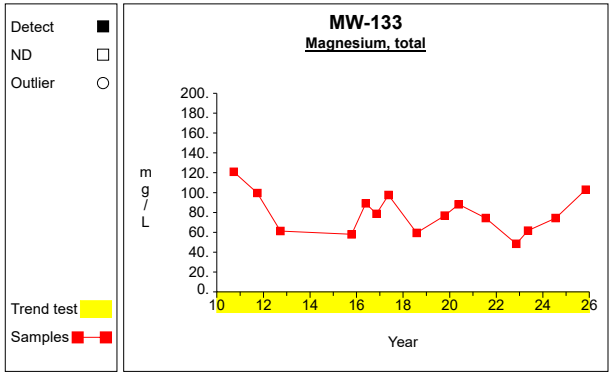


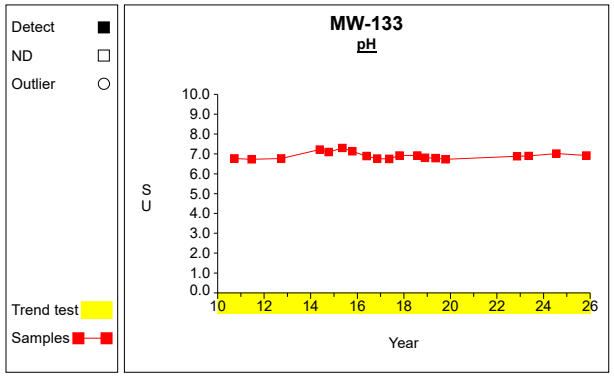
Graph 73



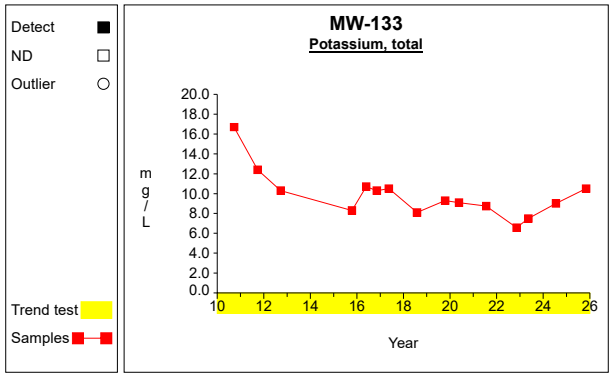
Graph 74



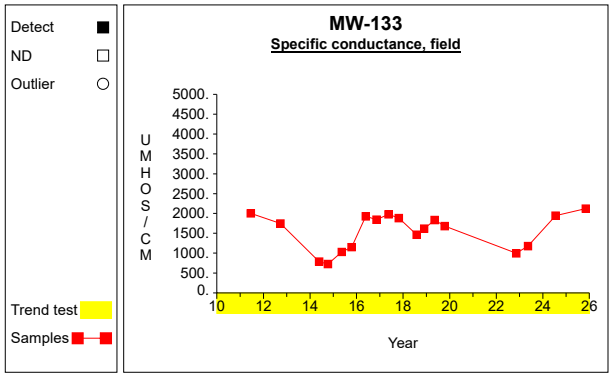
Graph 75



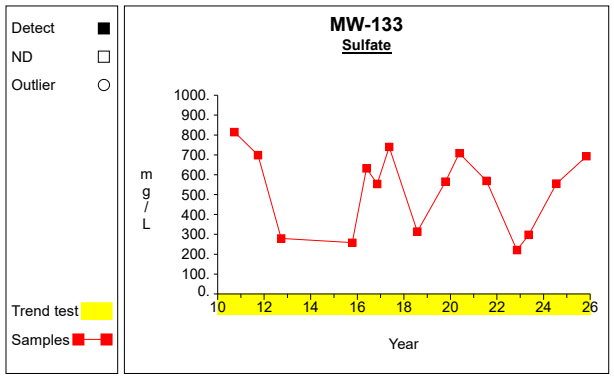
Graph 76



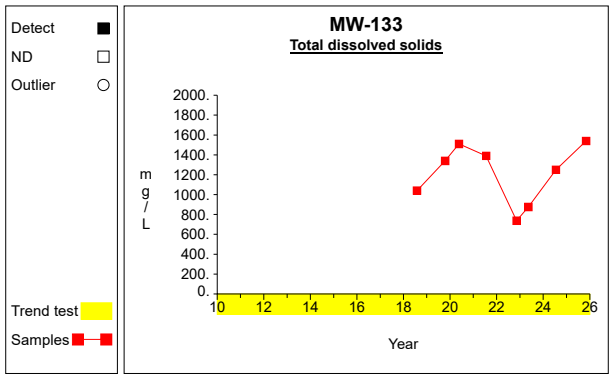
Graph 77



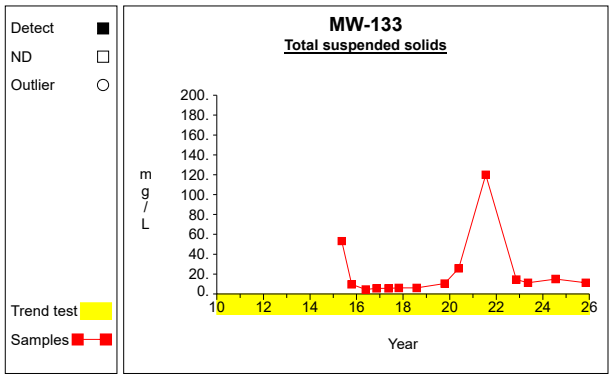
Graph 78



Graph 79



Graph 80



Graph 81

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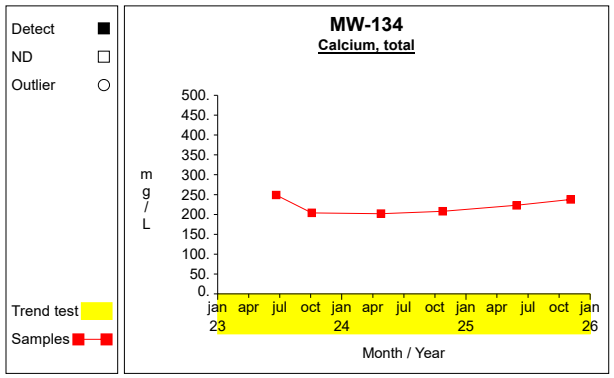
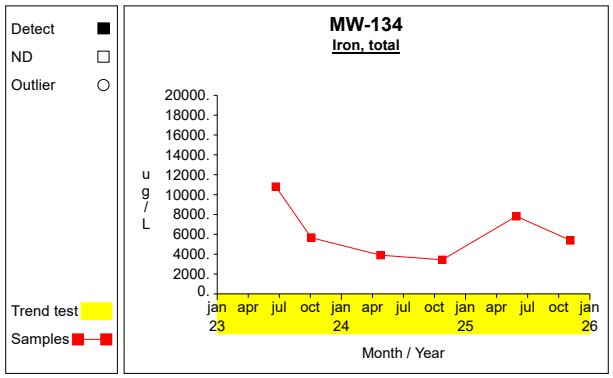
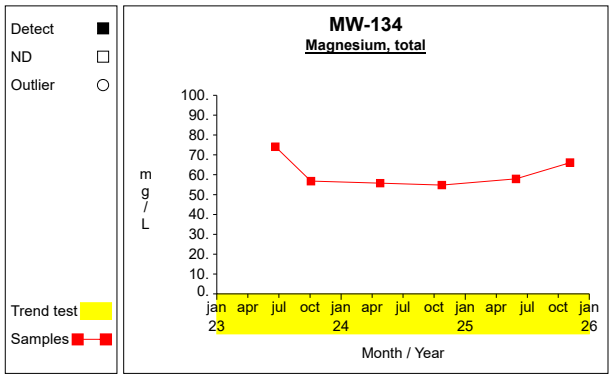


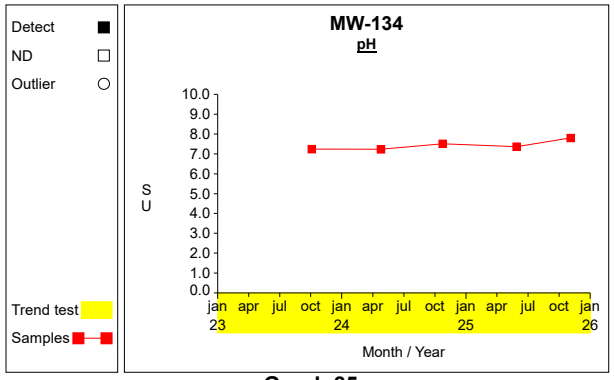
Graph 82



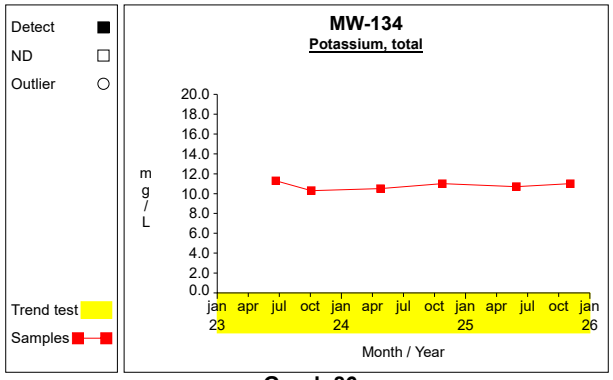
Graph 83



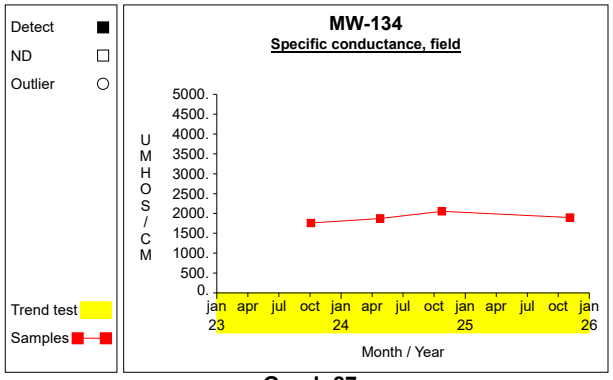
Graph 84



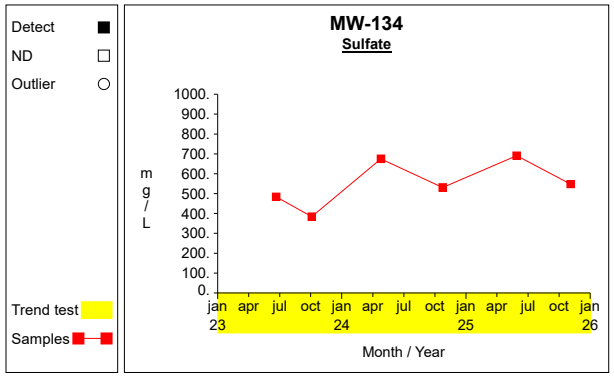
Graph 85



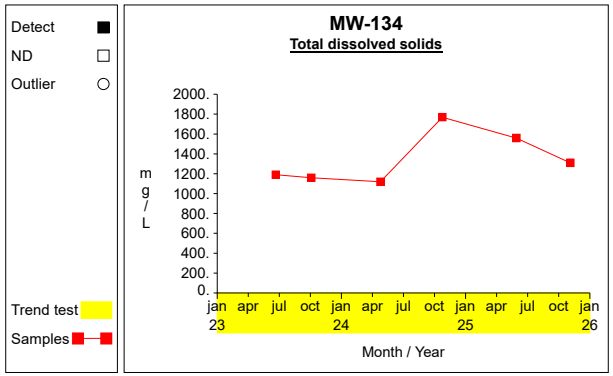
Graph 86



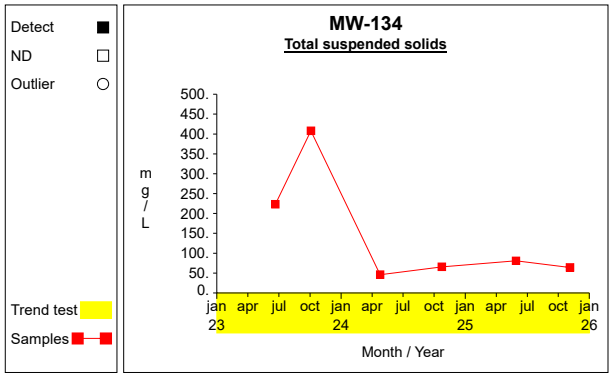
Graph 87



Graph 88



Graph 89



Graph 90

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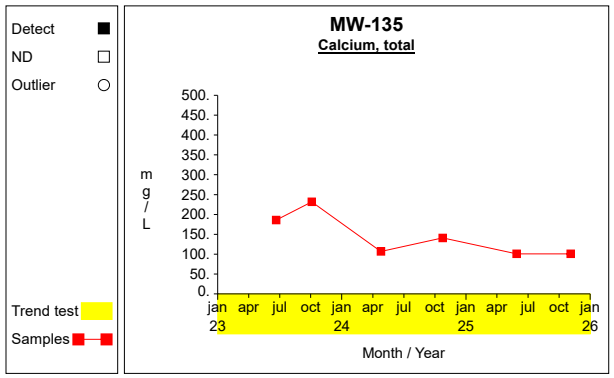
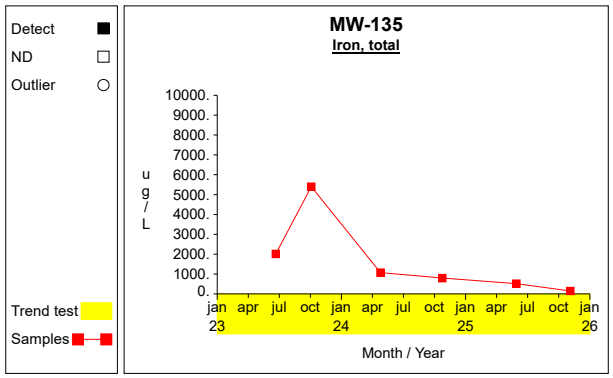
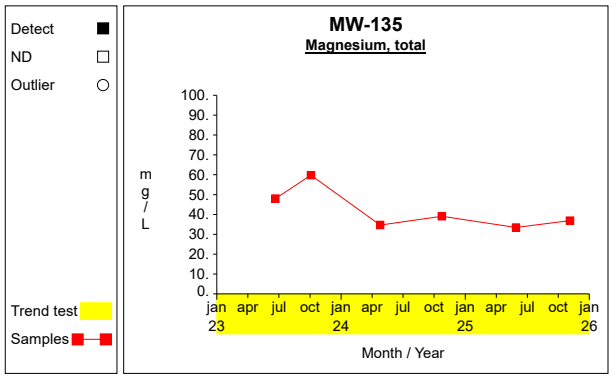


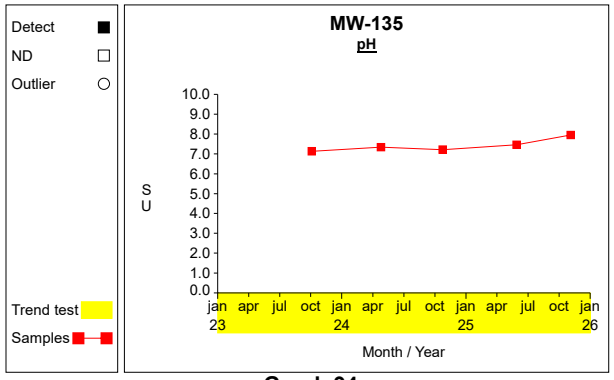
Graph 91



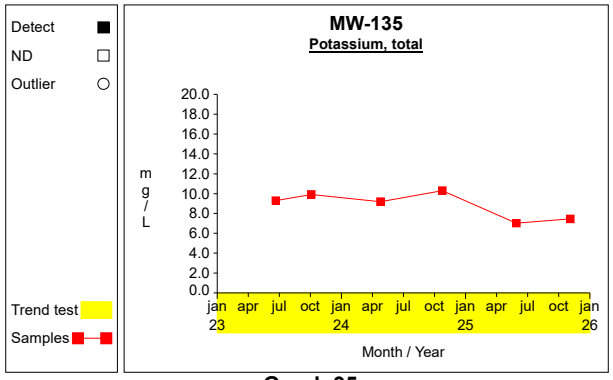
Graph 92



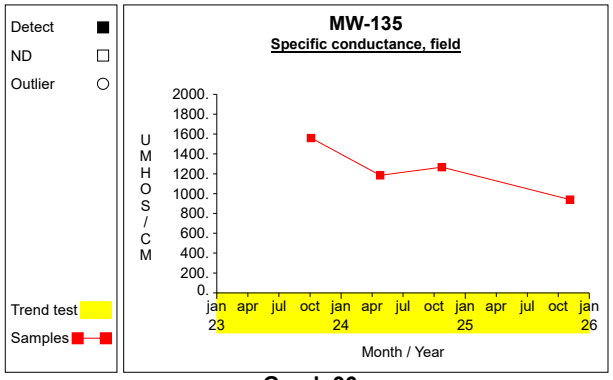
Graph 93



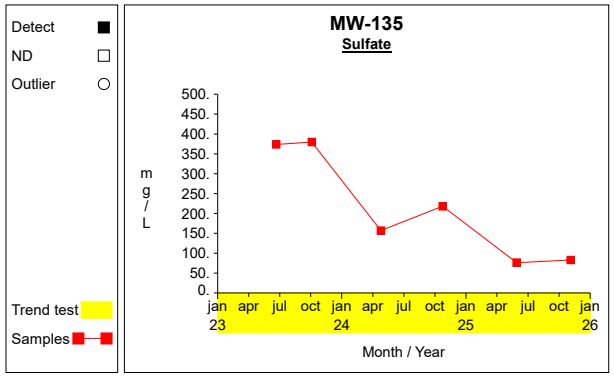
Graph 94



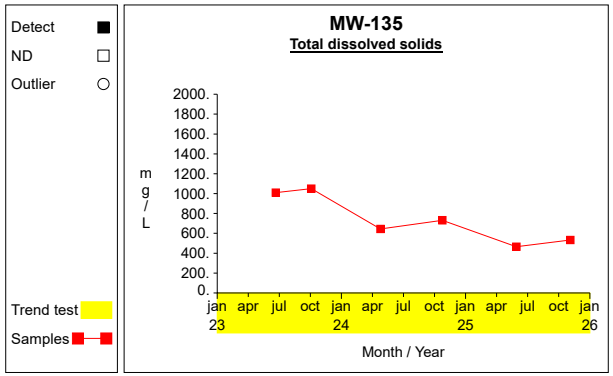
Graph 95



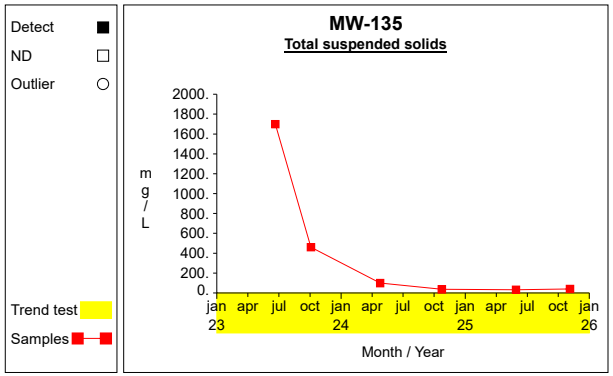
Graph 96



Graph 97



Graph 98



Graph 99

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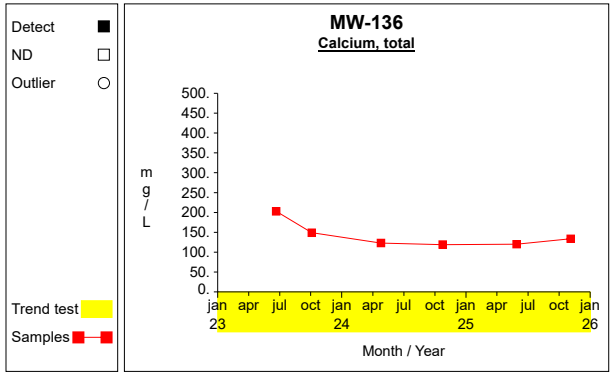
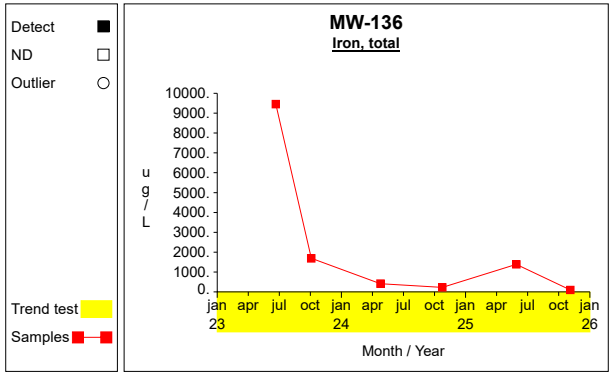
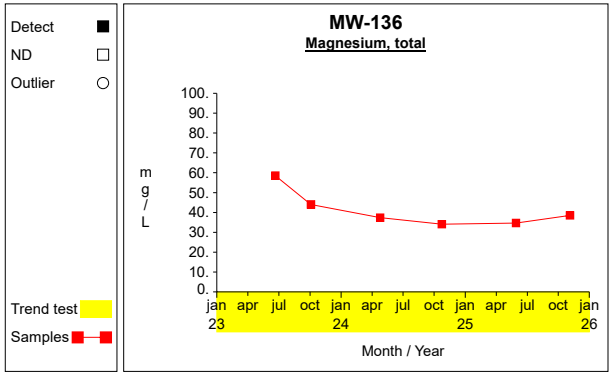
Time Series



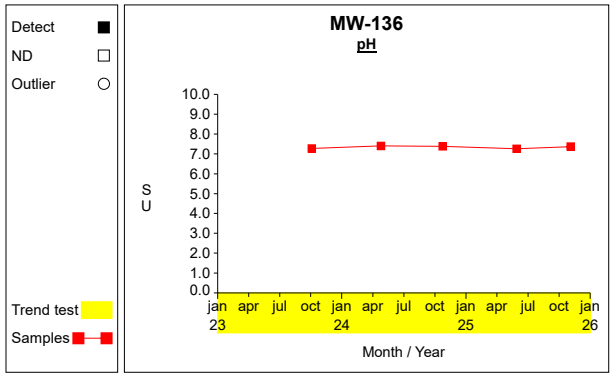
Graph 100



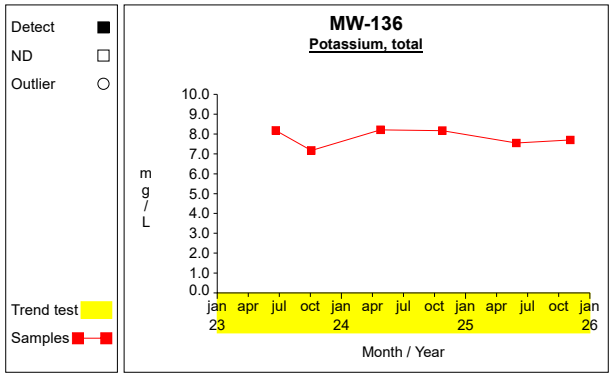
Graph 101



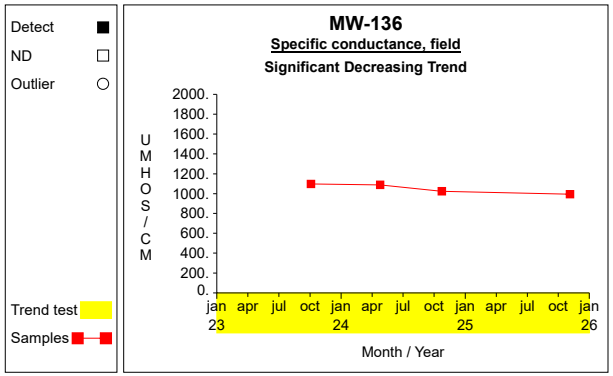
Graph 102



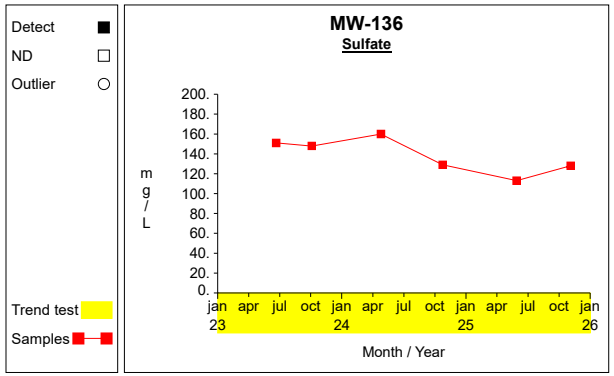
Graph 103



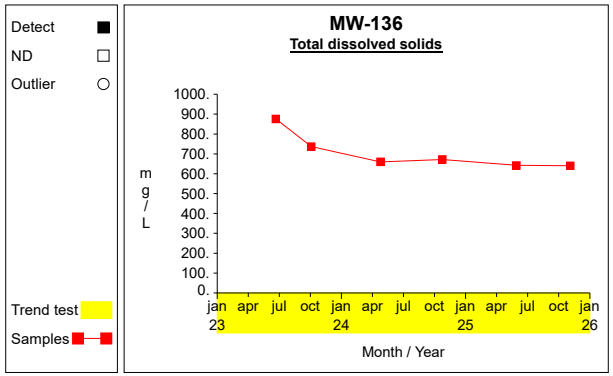
Graph 104



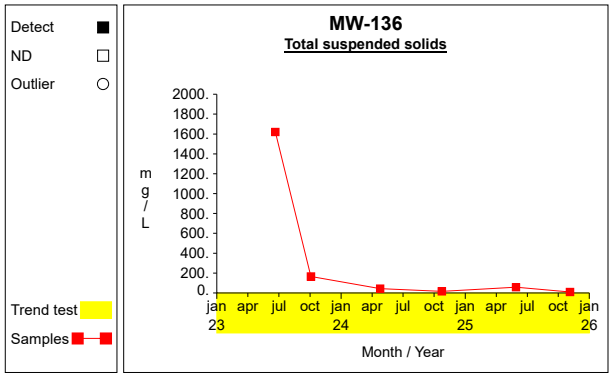
Graph 105



Graph 106



Graph 107



Graph 108

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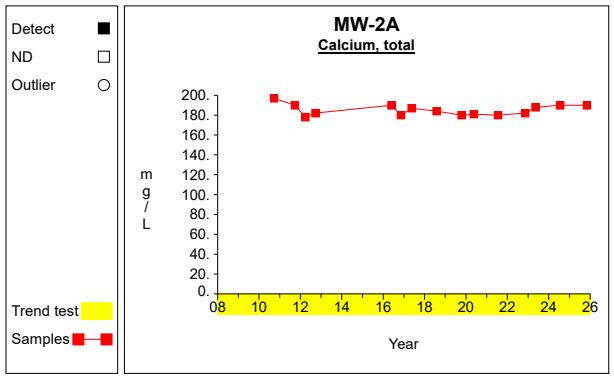
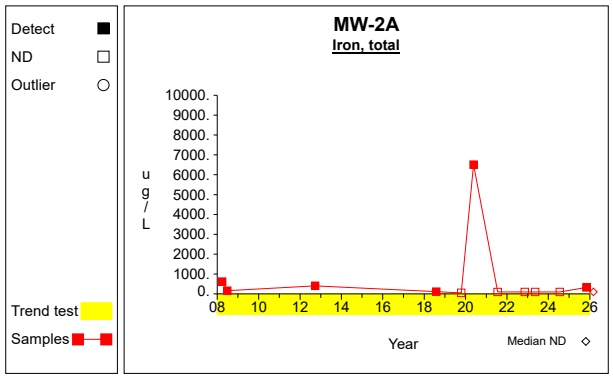
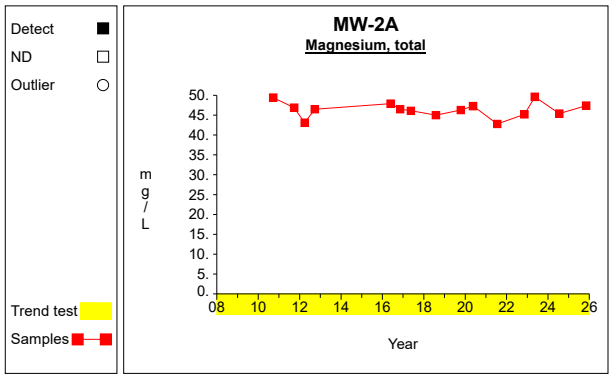
Time Series



Graph 109



Graph 110



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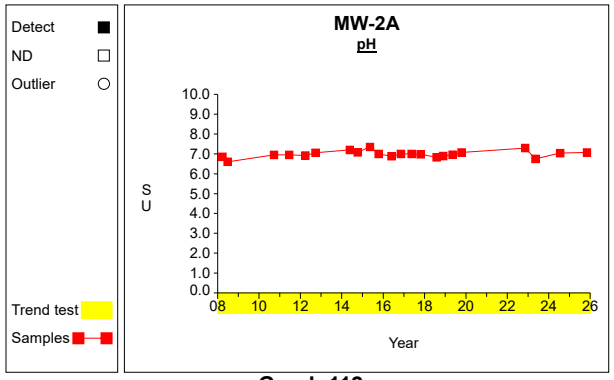

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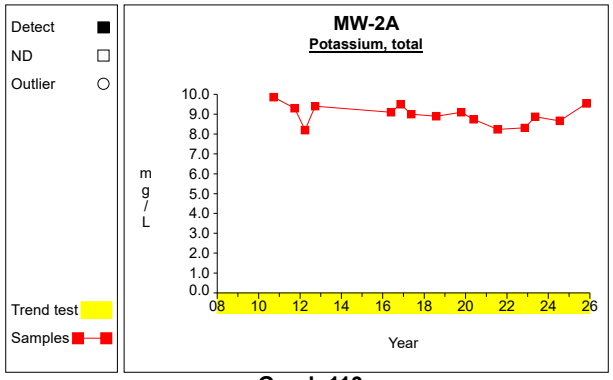

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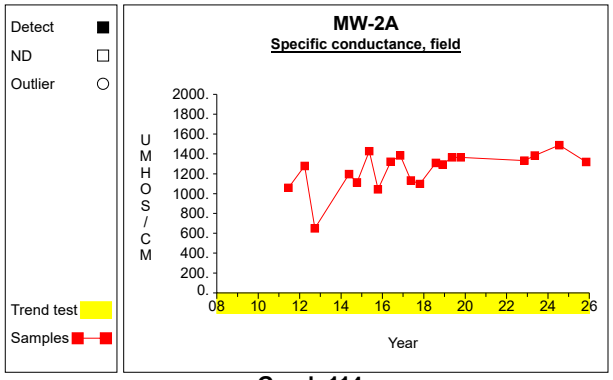
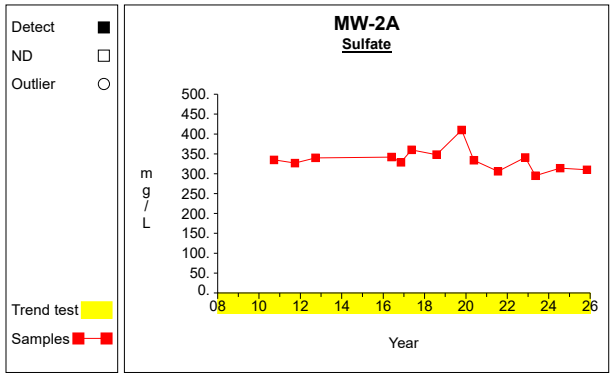


Graph 114



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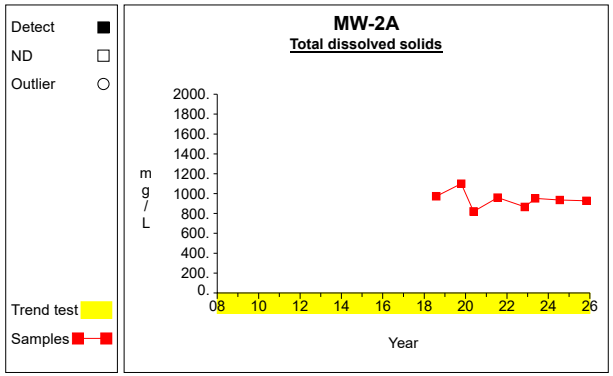
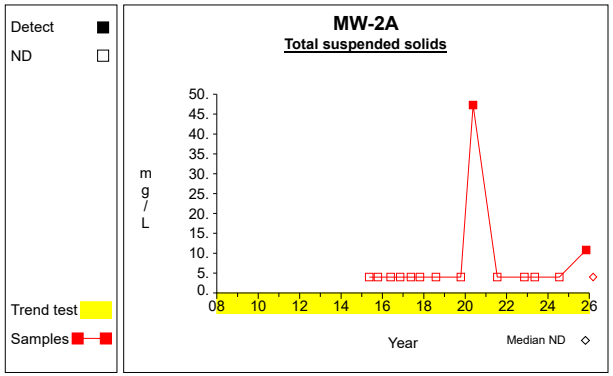


Graph 116



Graph 117

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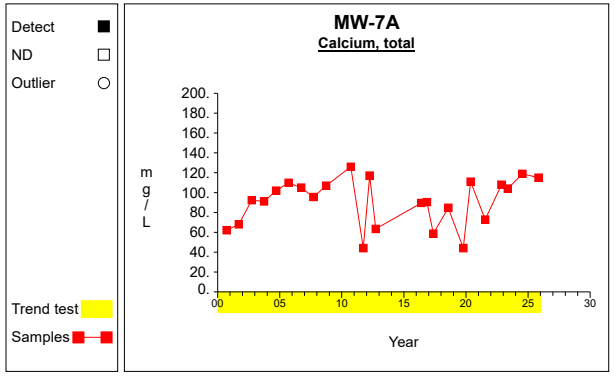
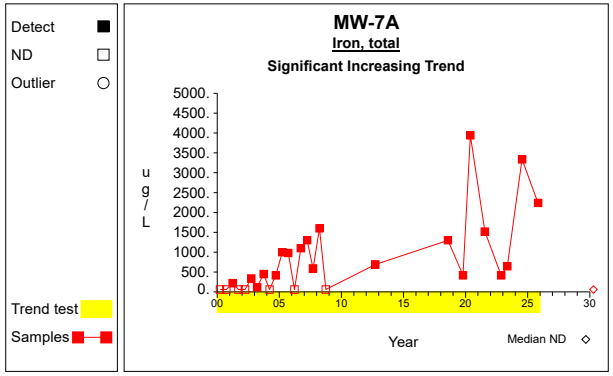
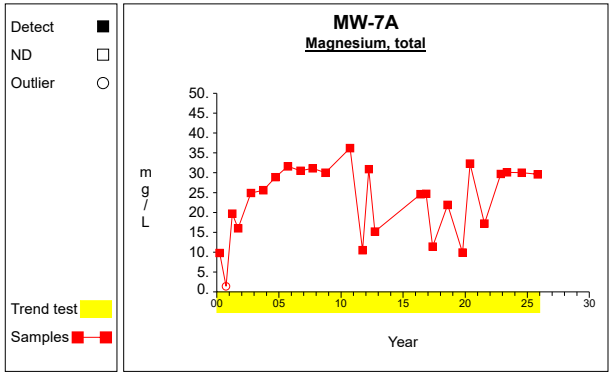
Time Series



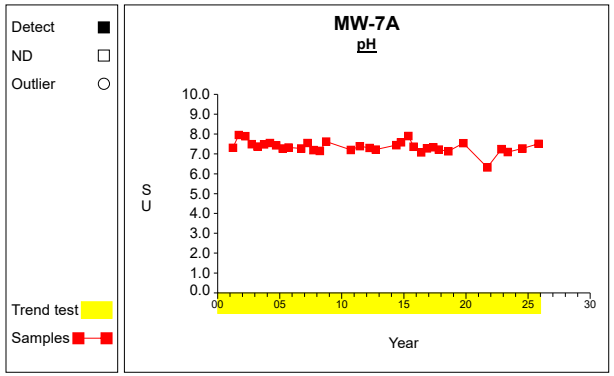
Graph 118



Graph 119



Graph 120



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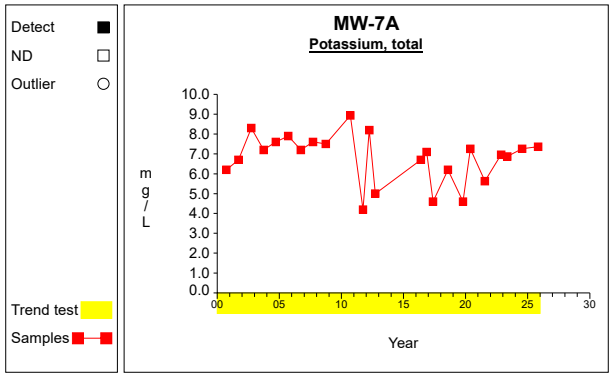
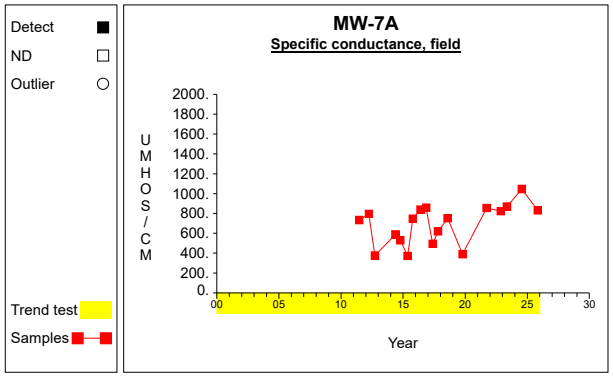
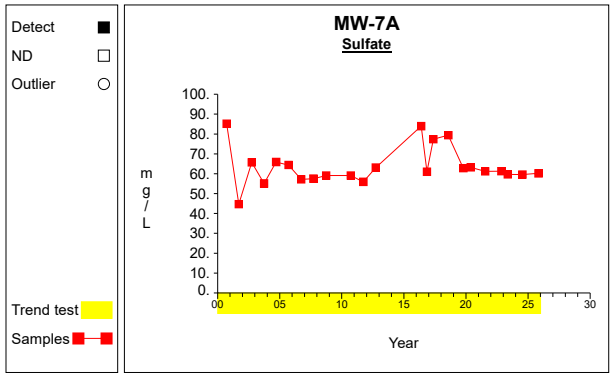


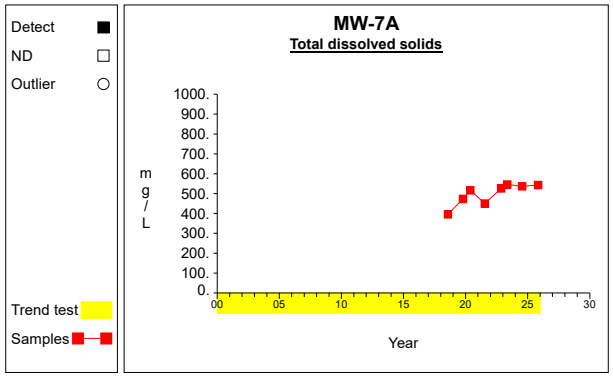
Graph 122



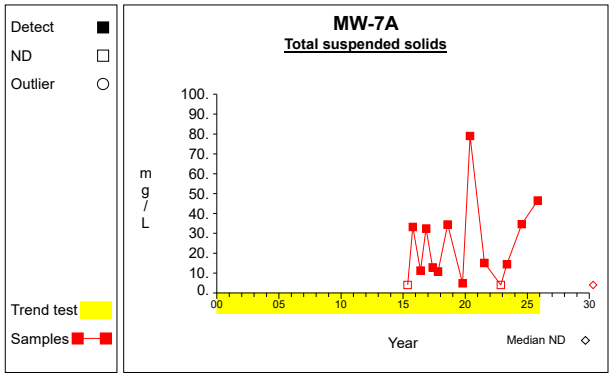
Graph 123



Graph 124



Graph 125



Graph 126

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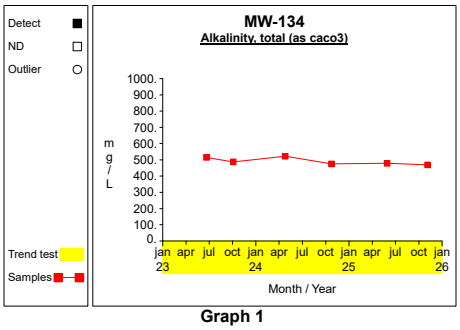
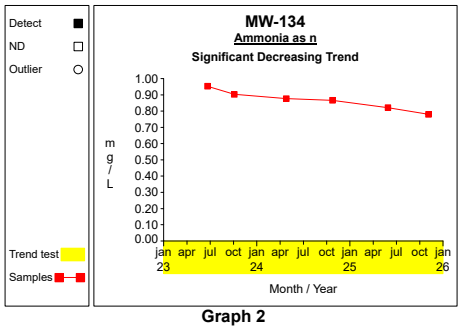
Attachment D

Time Series Plots of Appendix I Trace Metals

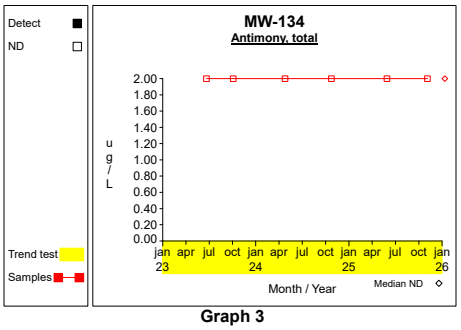
Time Series



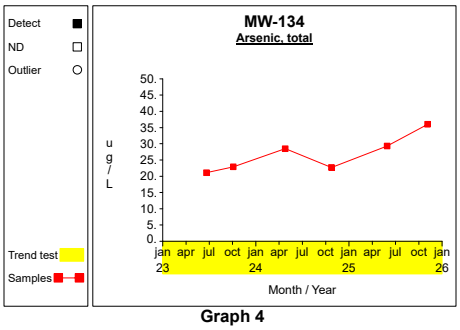
Graph 1



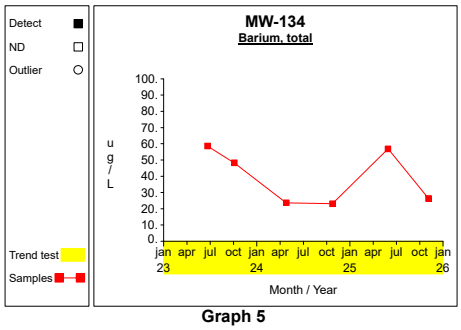
Graph 2



Graph 3



Graph 4



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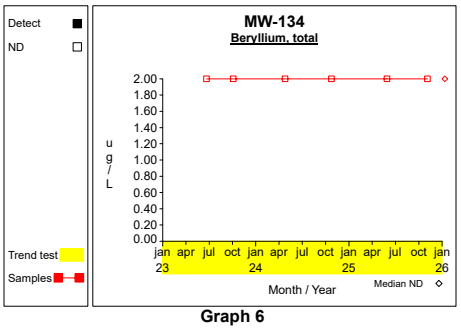

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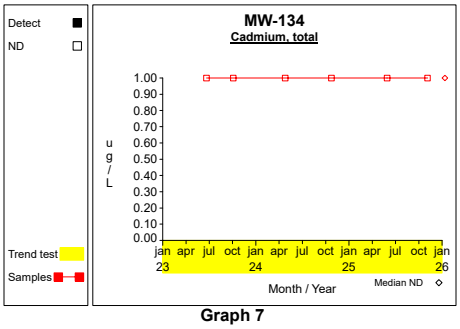

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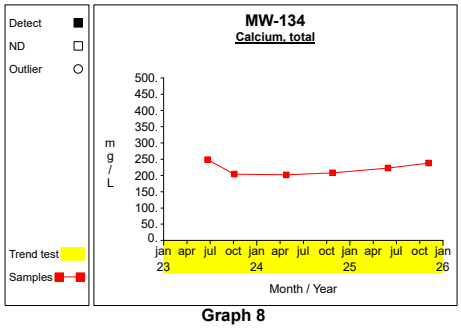

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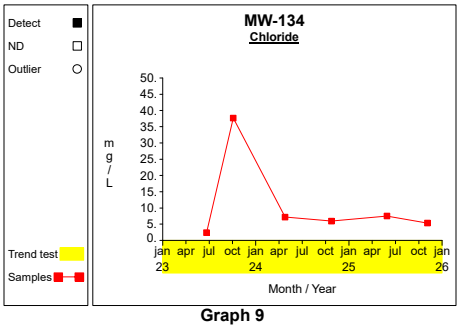
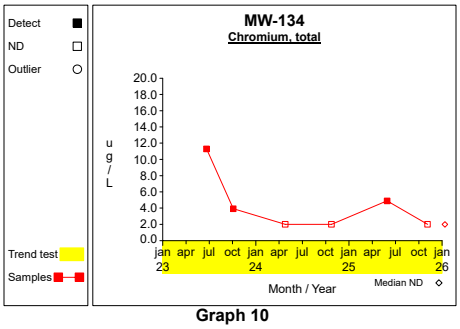
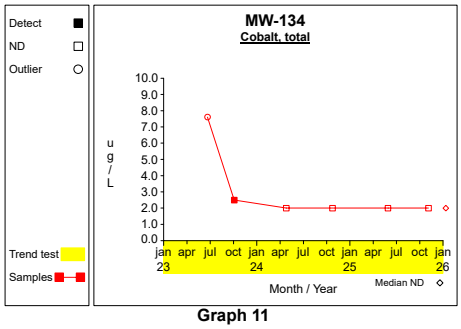


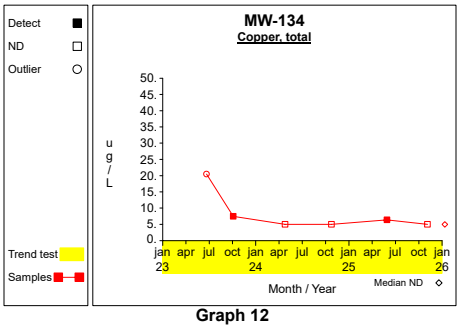
Graph 9



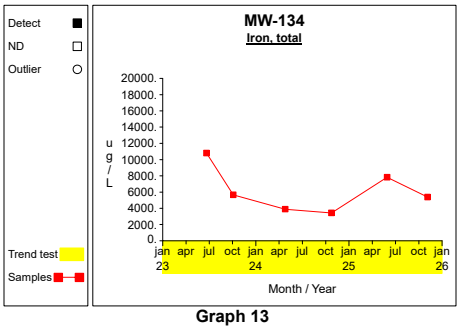
Graph 10



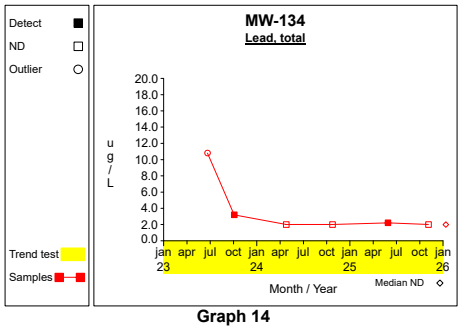
Graph 11



Graph 12



Graph 13



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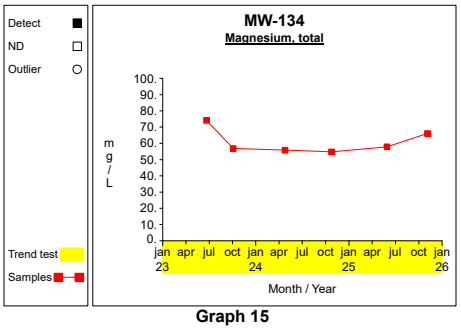

Graph 15

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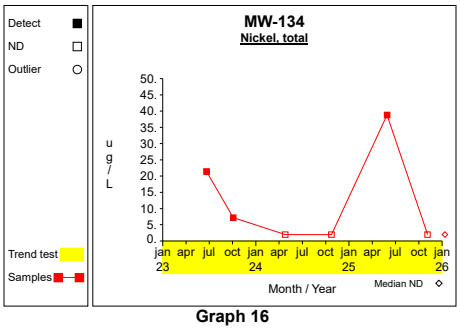
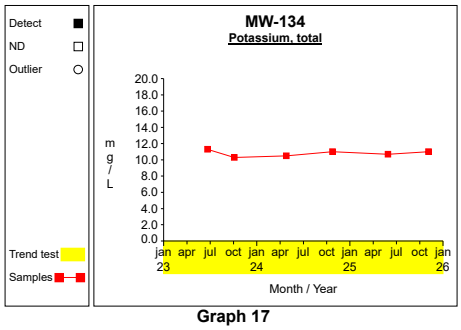
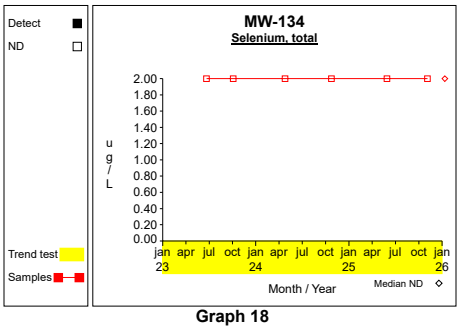
Time Series



Graph 16



Graph 17



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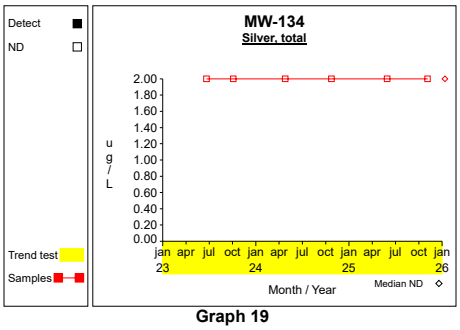

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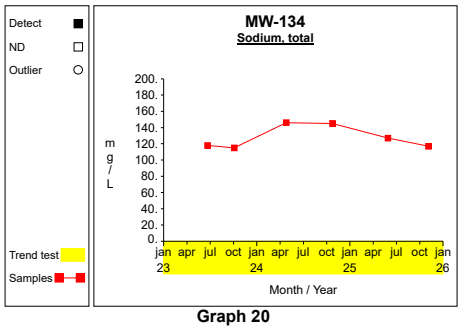

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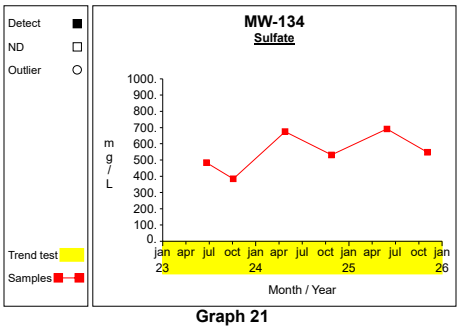

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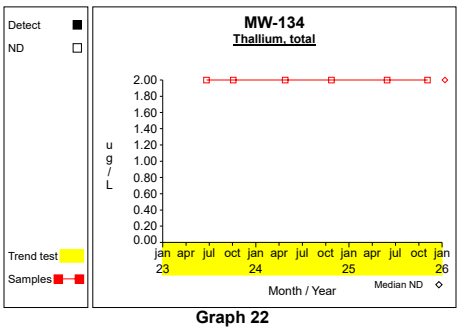
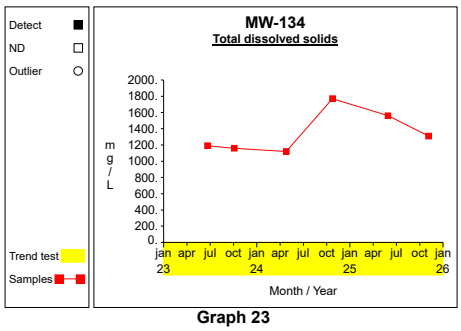


Graph 22



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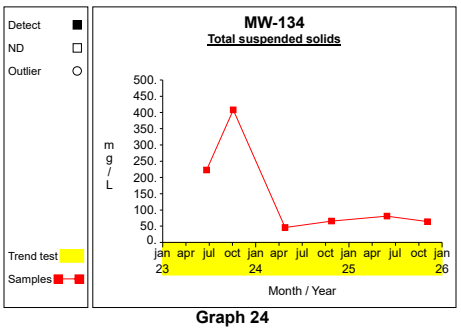
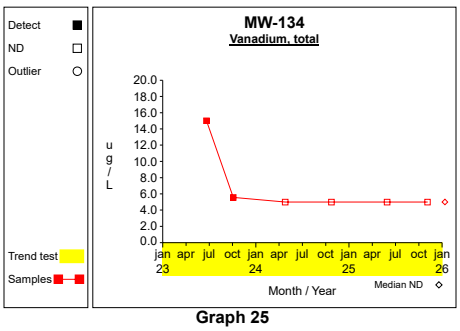
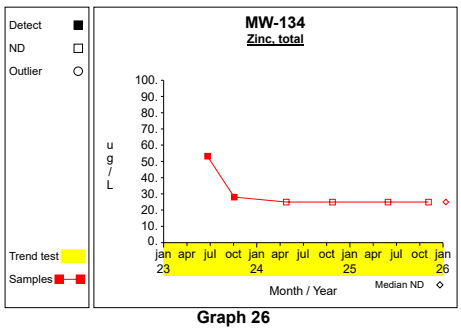


Graph 24

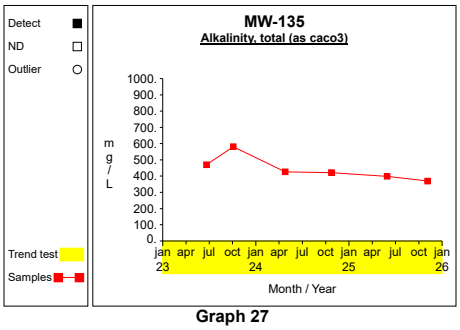


Graph 25

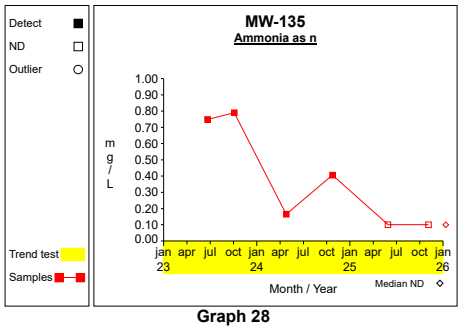


Graph 26

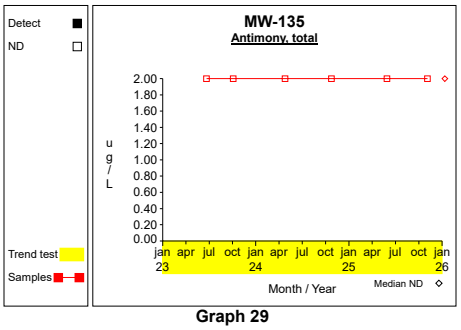
Time Series



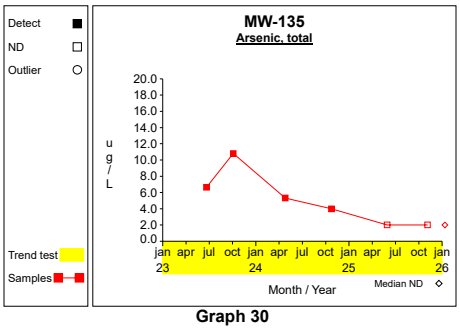
Graph 27



Graph 28



Graph 29



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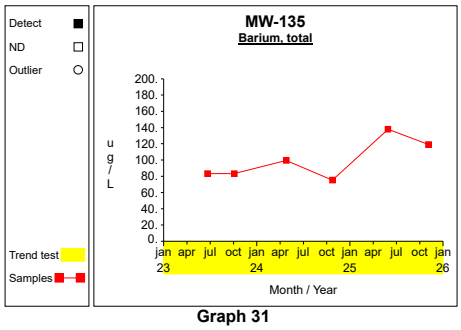

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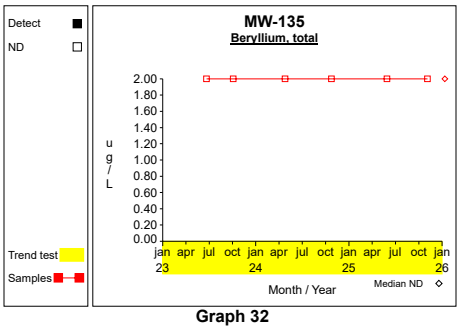
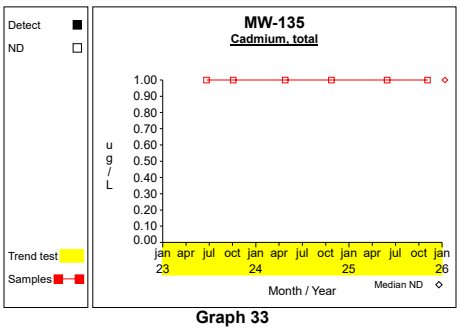


Graph 32



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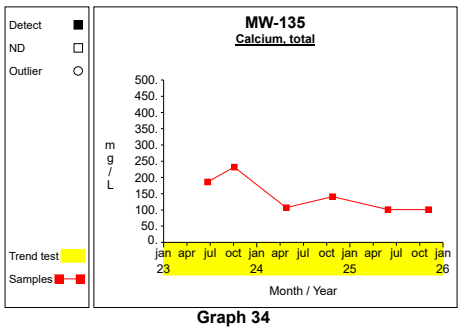

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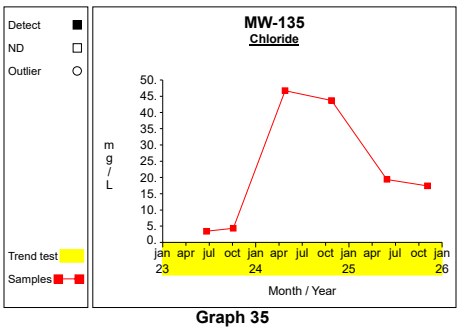

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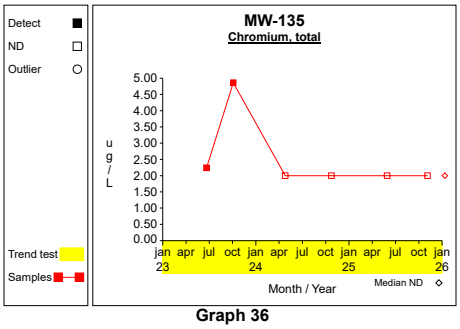

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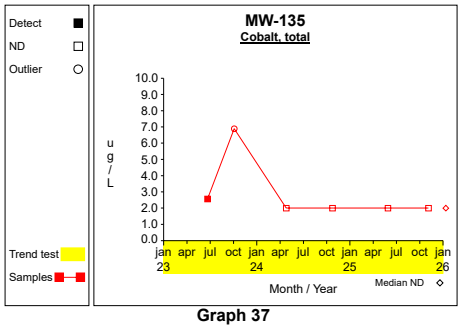

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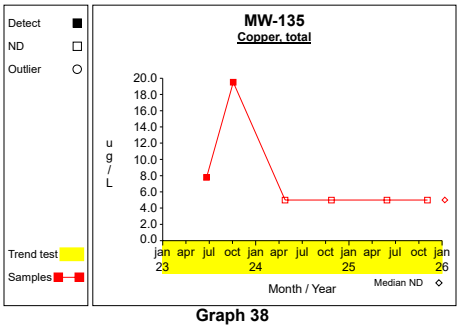

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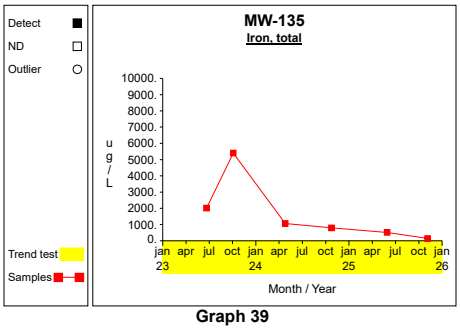

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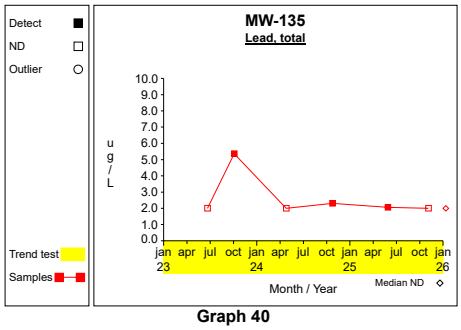

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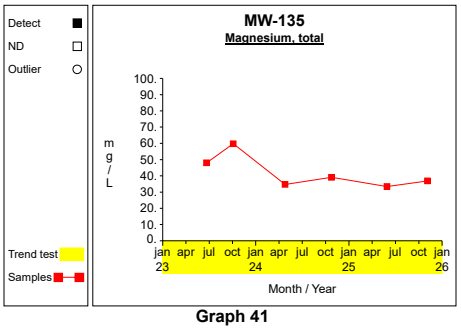

Graph 41

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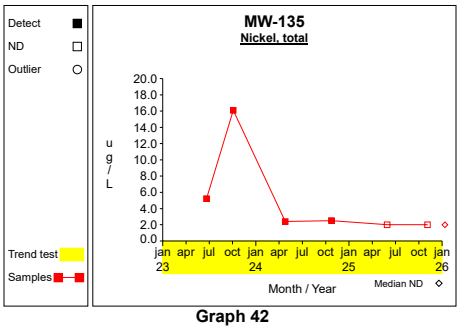
Time Series



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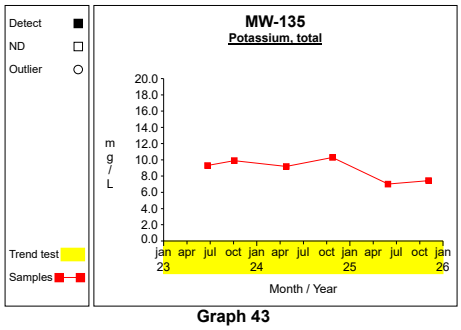
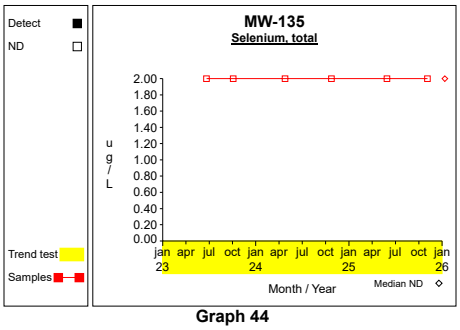


Graph 43



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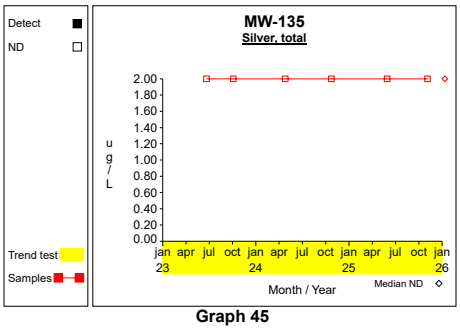

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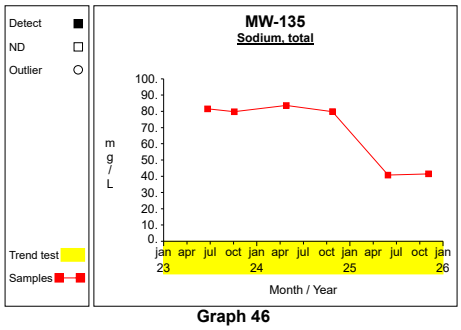

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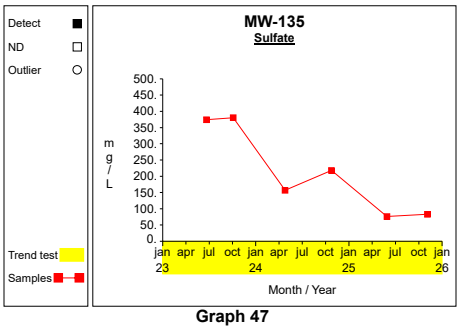
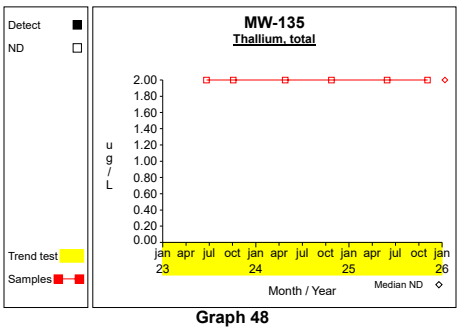


Graph 47



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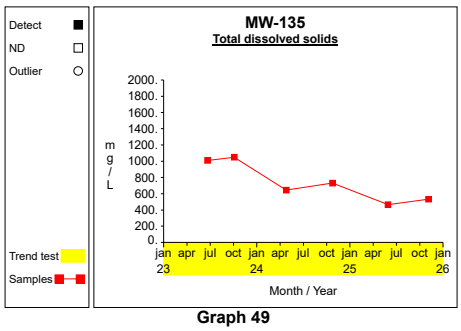

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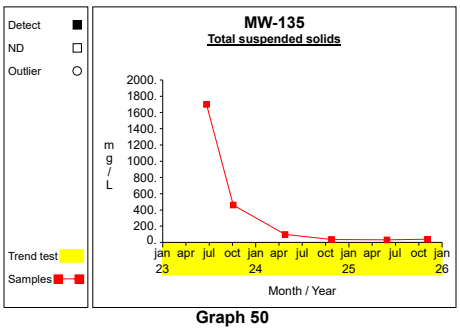

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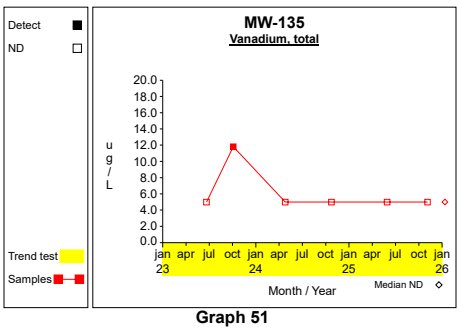

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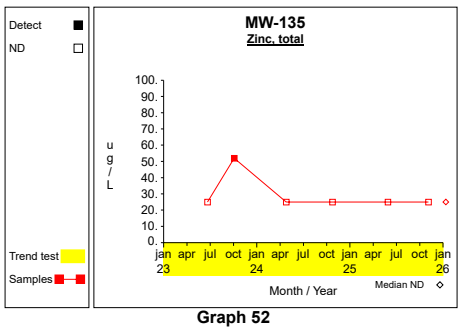
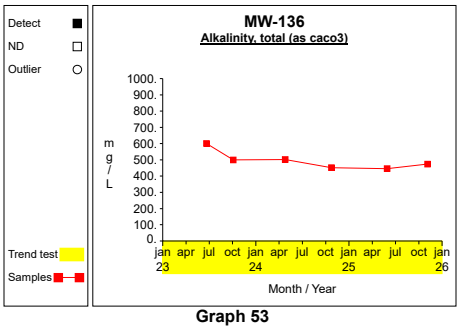
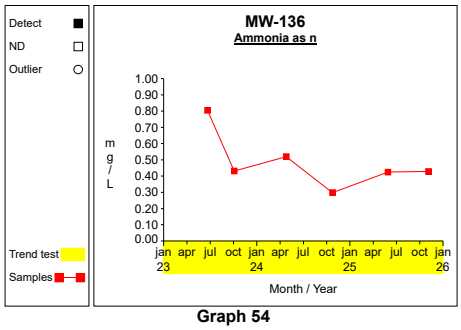


Graph 52

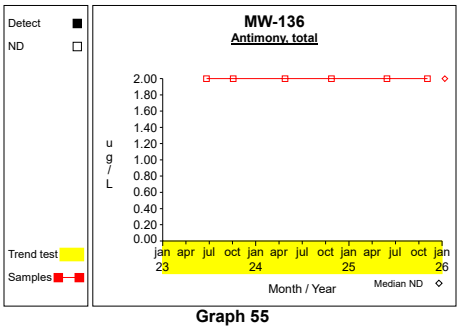
Time Series



Graph 53



Graph 54



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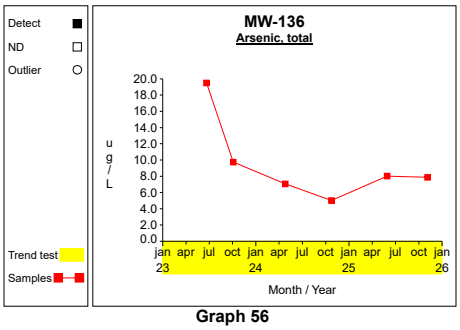

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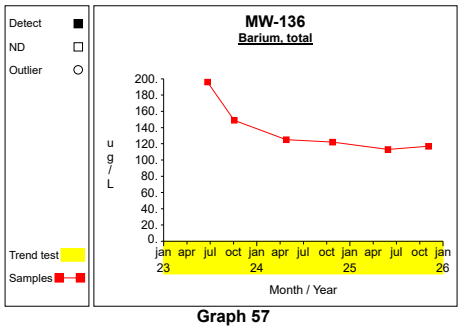

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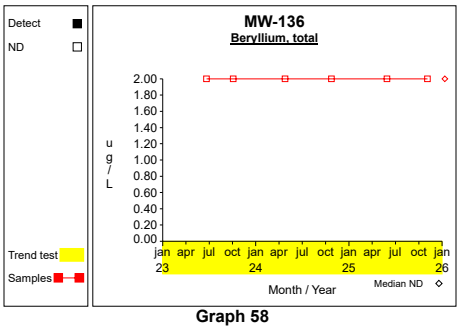

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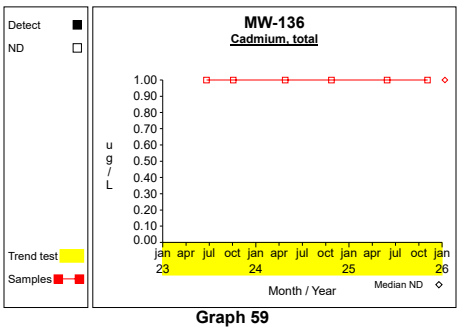

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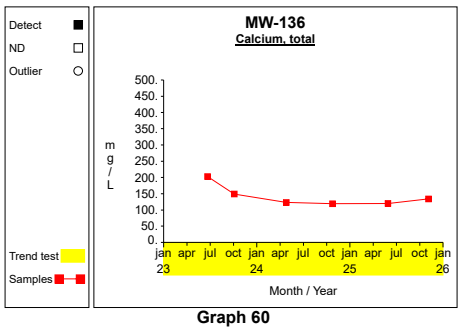

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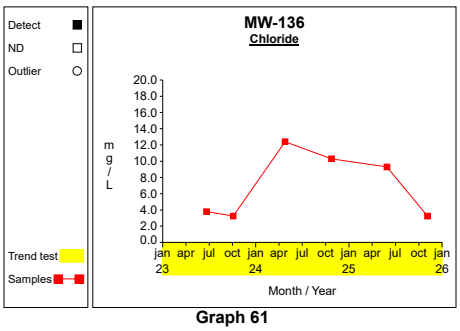

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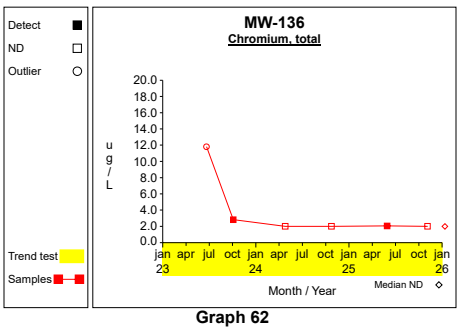

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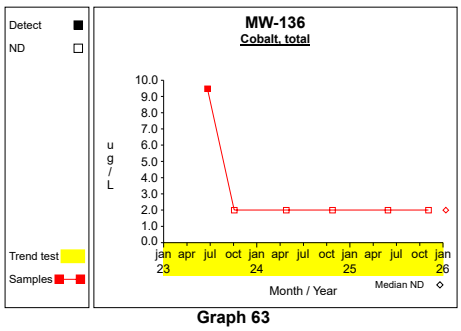
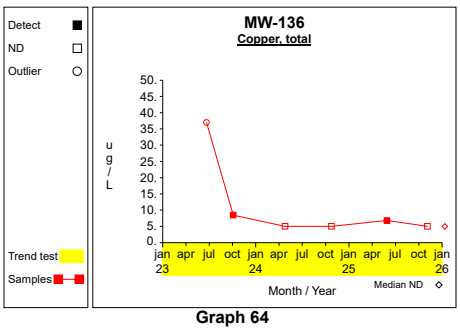


Graph 63



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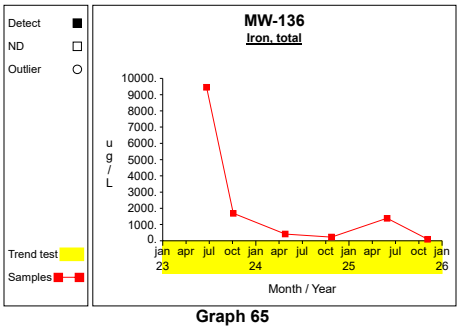
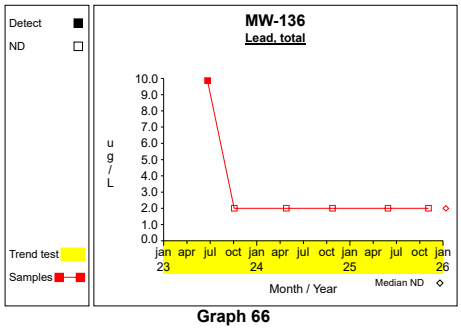


Graph 65



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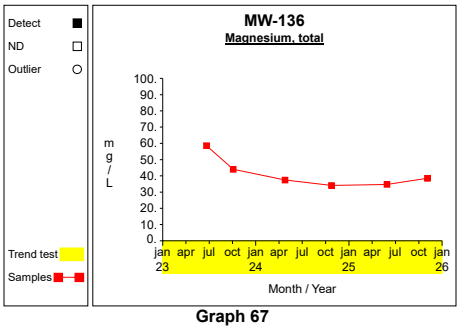

Graph 67

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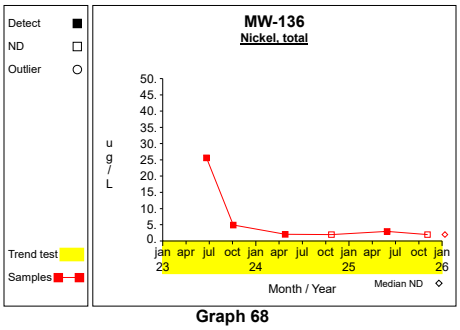
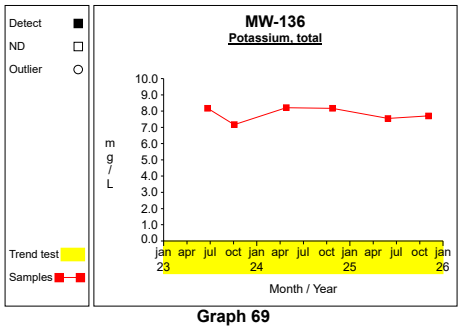
Time Series



Graph 68



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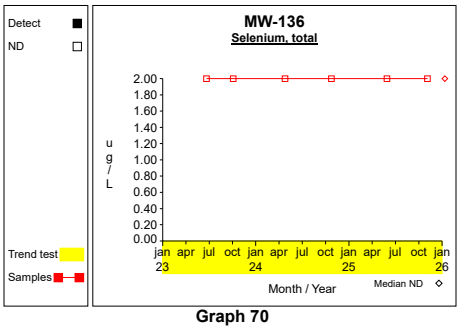
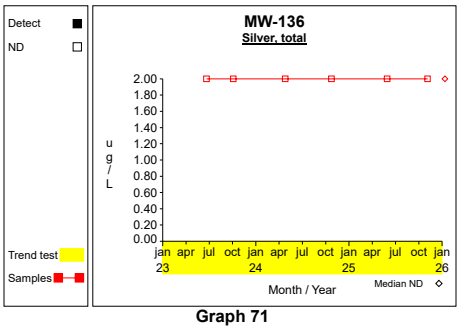
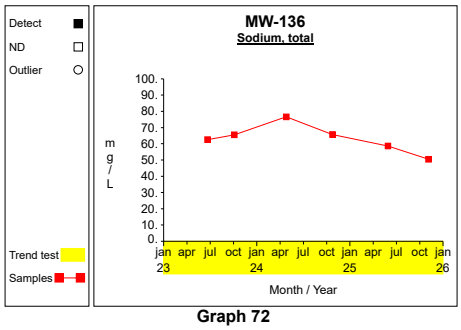


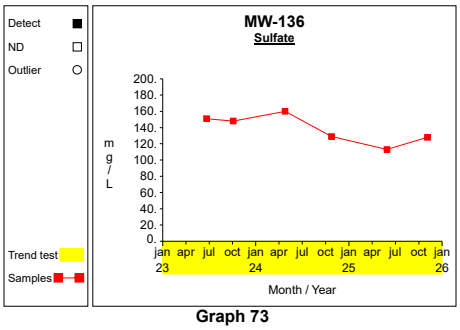
Graph 70



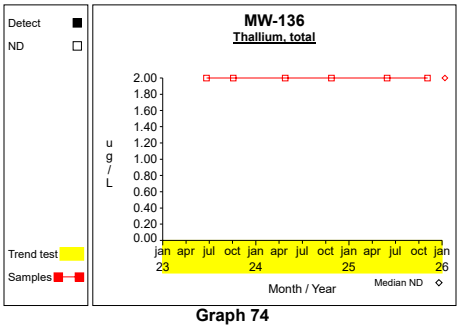
Graph 71



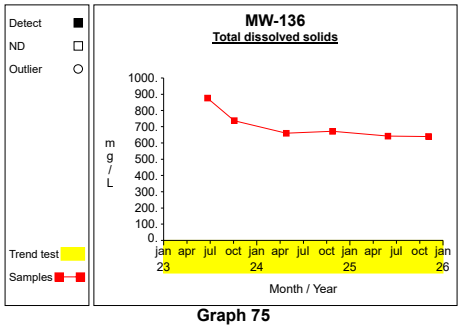
Graph 72



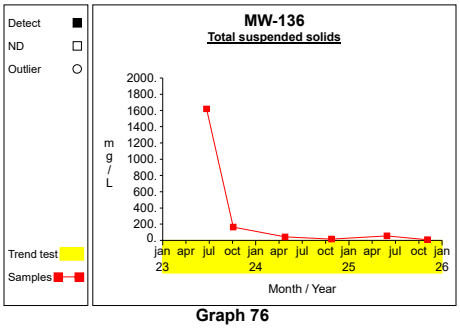
Graph 73



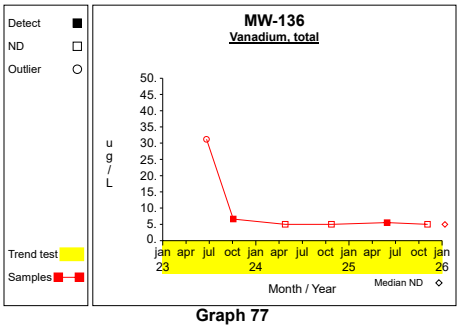
Graph 74



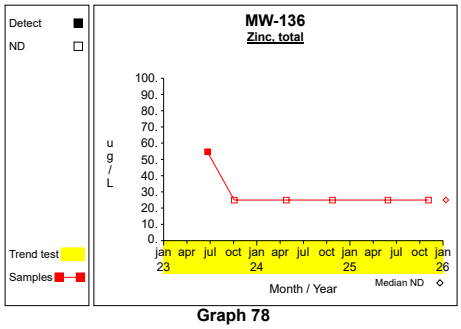
Graph 75



Graph 76



Graph 77



Graph 78

Attachment E

Historical VOC Detections

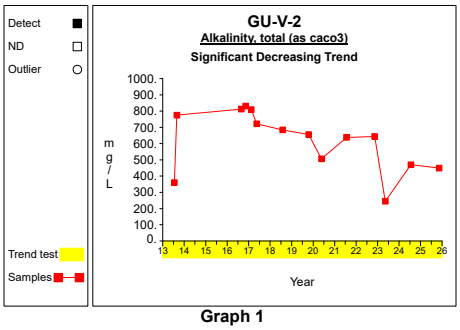
Table 1

Historical Volatile Organic Compound Detections

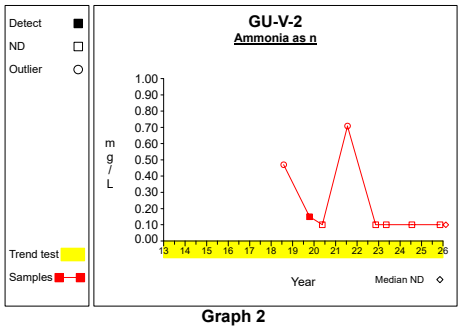
Constituent	Well	Date	Identifier	Result	Limit	Units
Acetone	GU-V-2	6/25/2013		30	10	ug/L
Acetone	GU-V-2	7/16/2013		19	10	ug/L
Benzene	GU-V-2	6/25/2013		21.0	1.0	ug/L
Benzene	GU-V-2	7/16/2013		20.0	1.0	ug/L
Benzene	GU-V-2	8/28/2013		61.0	1.0	ug/L
Benzene	GU-V-2	5/21/2014		16.0	1.0	ug/L
Benzene	GU-V-2	10/07/2014		3.7	1.0	ug/L
Carbon disulfide	GU-V-2	7/16/2013		10	1	ug/L
Chloroethane	GU-V-2	6/25/2013		2.5	1.0	ug/L
Chloroethane	GU-V-2	7/16/2013		2.1	1.0	ug/L
Chloroethane	GU-V-2	8/28/2013		3.7	1.0	ug/L
Chloroethane	GU-V-2	5/21/2014		4.6	1.0	ug/L
Chloroethane	GU-V-2	10/07/2014		1.1	1.0	ug/L
Cis-1,2-dichloroethene	GU-V-2	8/28/2013		1.4	1.0	ug/L
Ethylbenzene	GU-V-2	6/25/2013		5.2	1.0	ug/L
Ethylbenzene	GU-V-2	7/16/2013		5.7	1.0	ug/L
Ethylbenzene	GU-V-2	8/28/2013		12.0	1.0	ug/L
Methyl isobutyl ketone	GU-V-2	6/25/2013		12	5	ug/L
Methyl isobutyl ketone	GU-V-2	7/16/2013		12	5	ug/L
Toluene	GU-V-2	6/25/2013		5.5	1.0	ug/L
Toluene	GU-V-2	7/16/2013		9.2	1.0	ug/L
Toluene	GU-V-2	8/28/2013		1.6	1.0	ug/L
Total xylenes	GU-V-2	7/16/2013		2	2	ug/L
Vinyl chloride	GU-V-2	5/21/2014		1.3	1.0	ug/L
Vinyl chloride	GU-V-2	10/07/2014		2.0	1.0	ug/L
Diethyl phthalate	MW-132	9/24/2012		10.0	5.6	ug/L
Bis(2-ethylhexyl) phthalate	MW-133	12/22/2011		23.0	5.5	ug/L
Butyl benzyl phthalate	MW-133	10/14/2015		15	5	ug/L
Toluene	MW-2A	5/19/2008		3.2	2.5	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

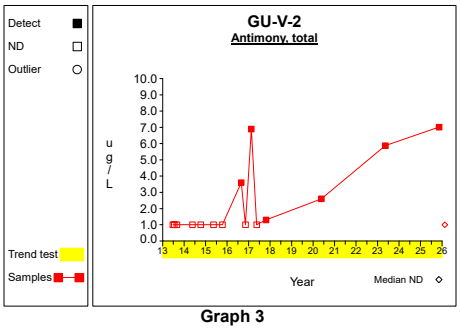
Time Series



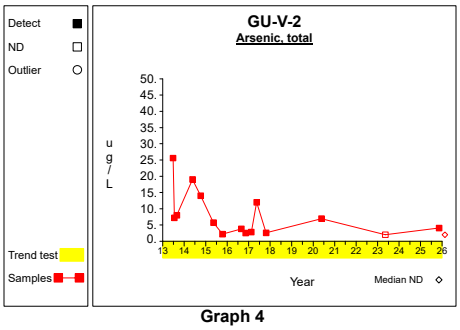
Graph 1



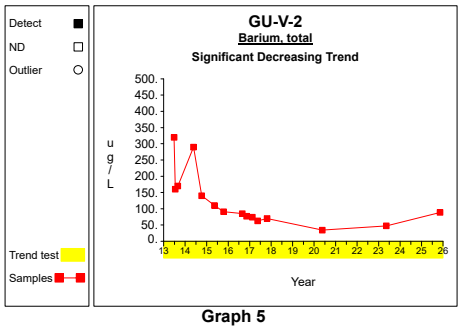
Graph 2



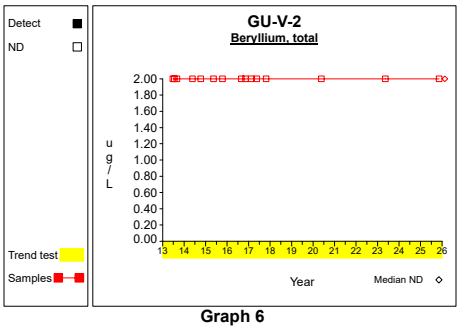
Graph 3



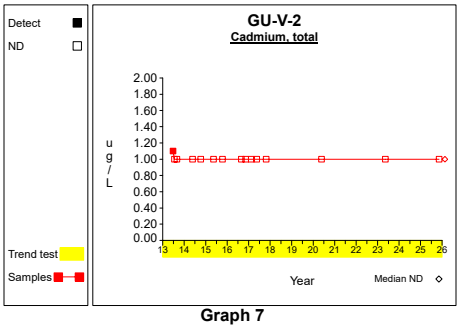
Graph 4



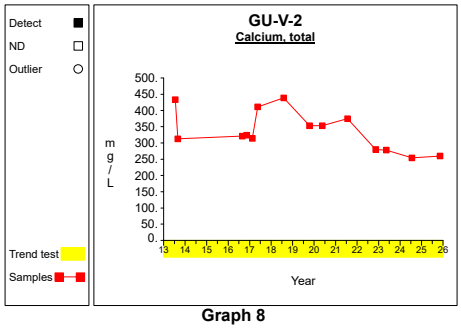
Graph 5



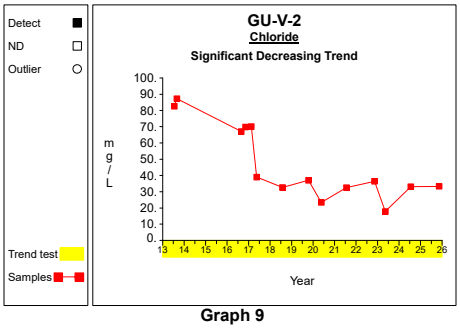
Graph 6



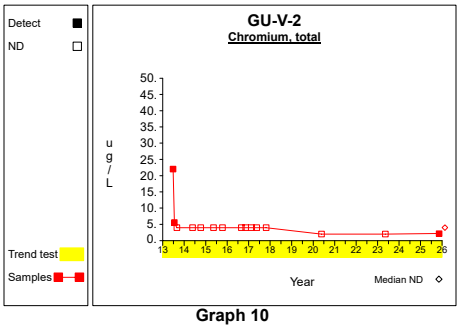
Graph 7



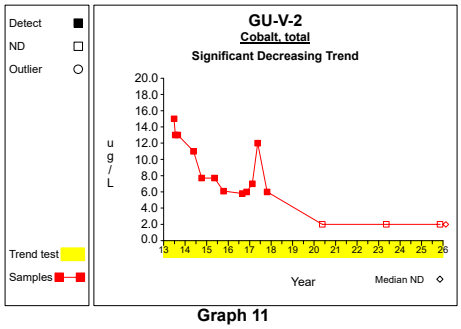
Graph 8



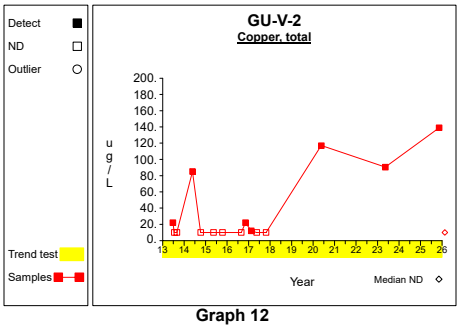
Graph 9



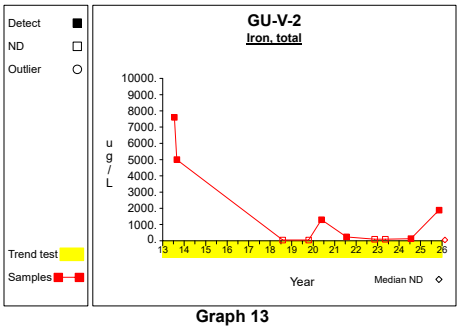
Graph 10



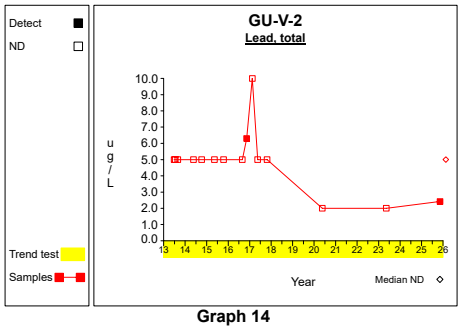
Graph 11



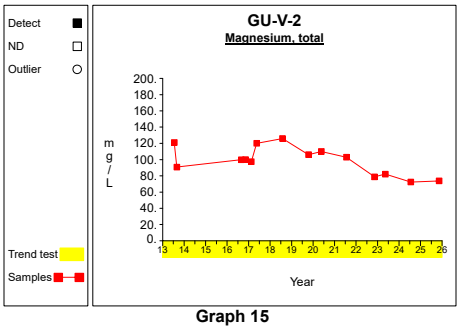
Graph 12



Graph 13



Graph 14



Graph 15

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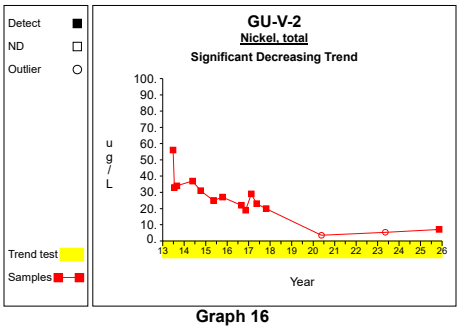
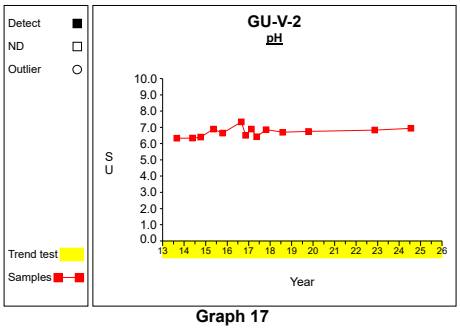
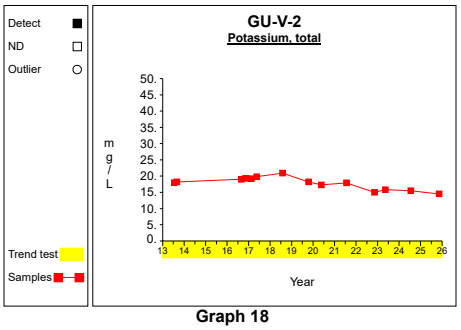
Time Series



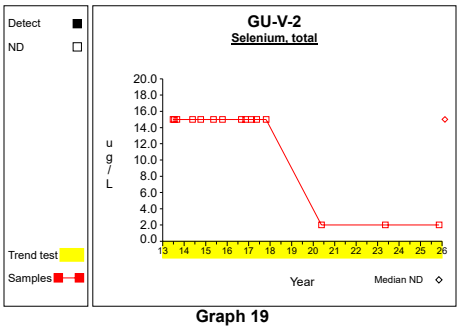
Graph 16



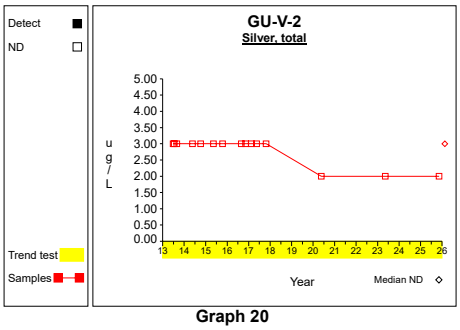
Graph 17



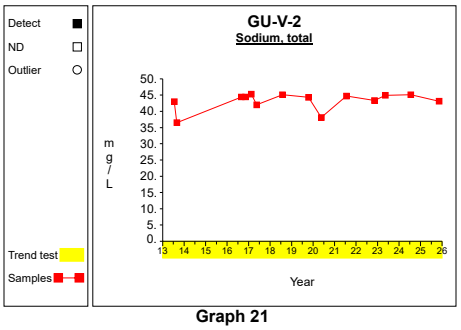
Graph 18



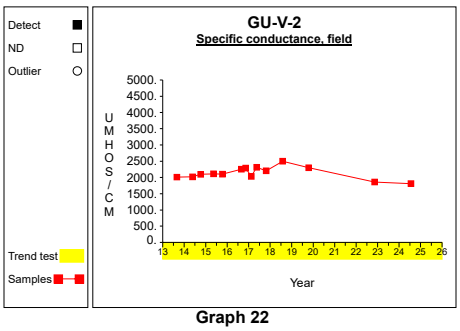
Graph 19



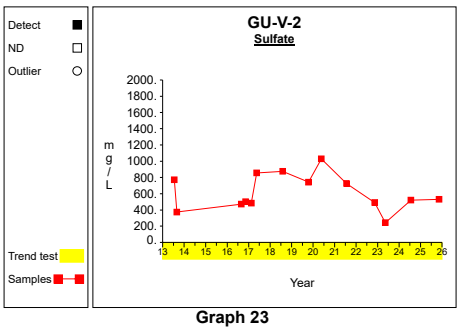
Graph 20



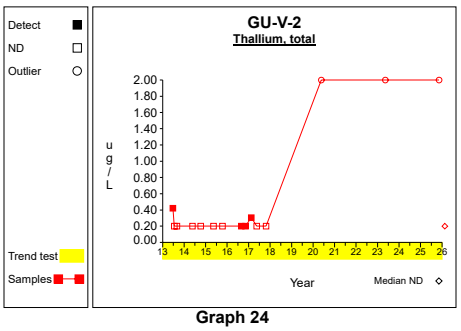
Graph 21



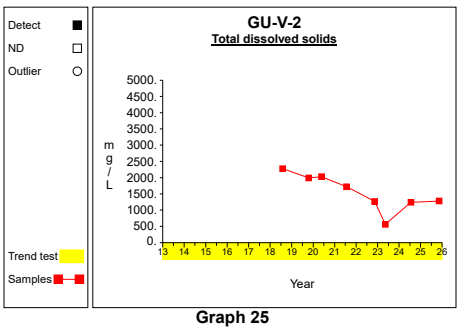
Graph 22



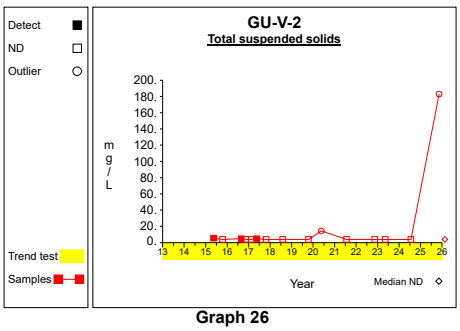
Graph 23



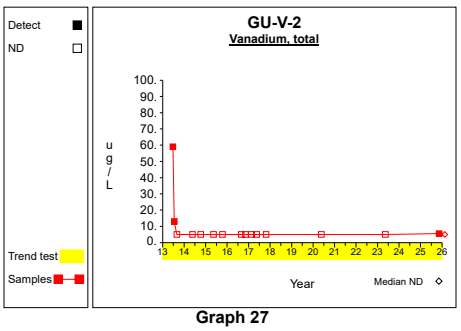
Graph 24



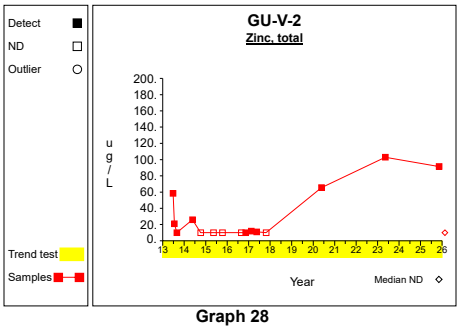
Graph 25



Graph 26

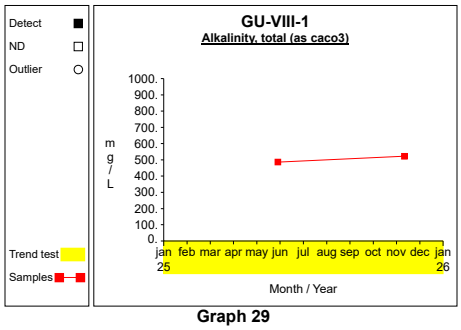


Graph 27

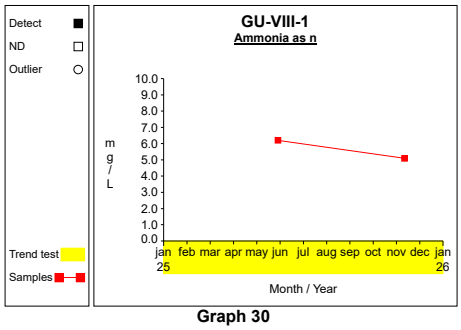


Graph 28

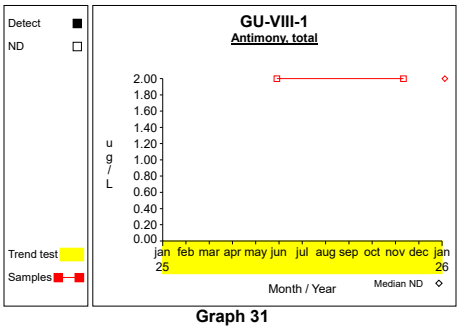
Time Series



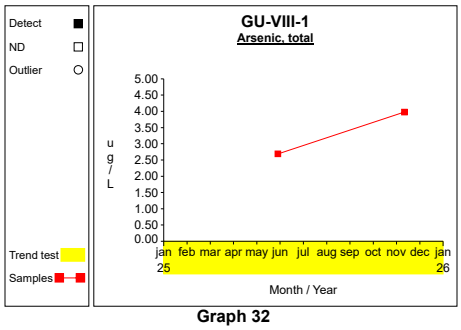
Graph 29



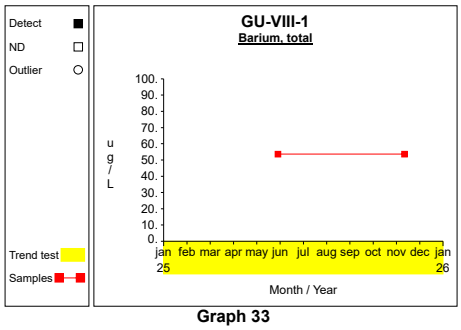
Graph 30



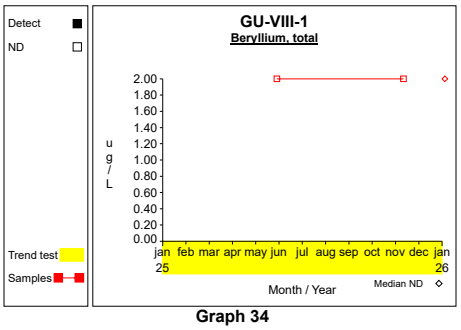
Graph 31



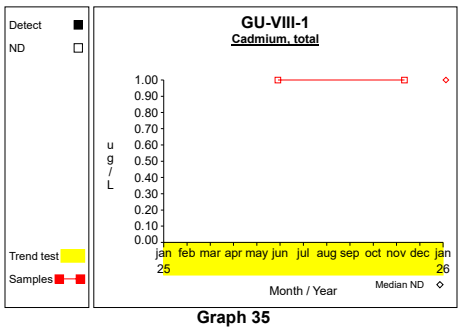
Graph 32



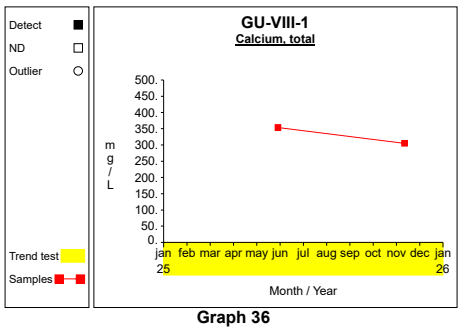
Graph 33



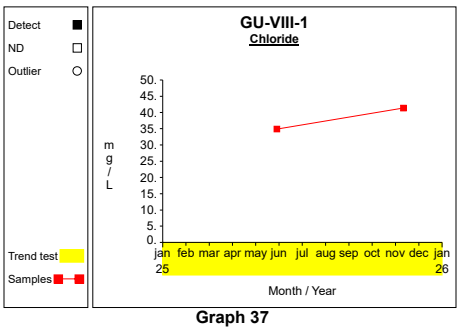
Graph 34



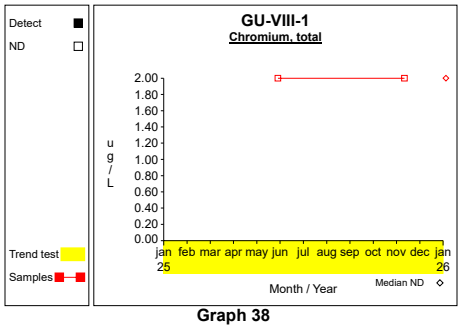
Graph 35



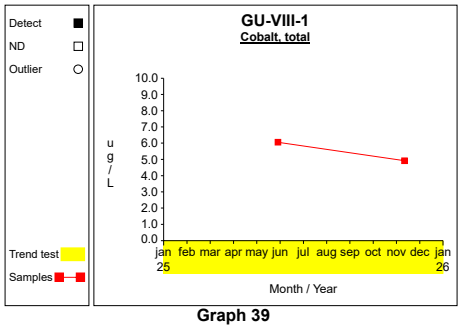
Graph 36



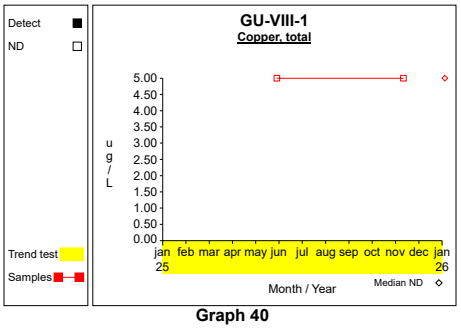
Graph 37



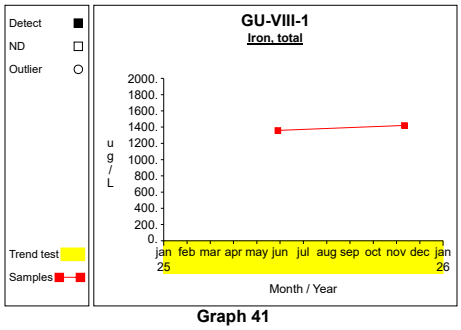
Graph 38



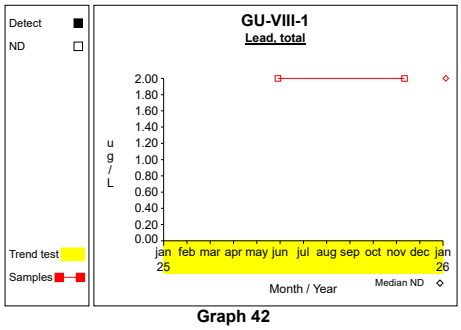
Graph 39



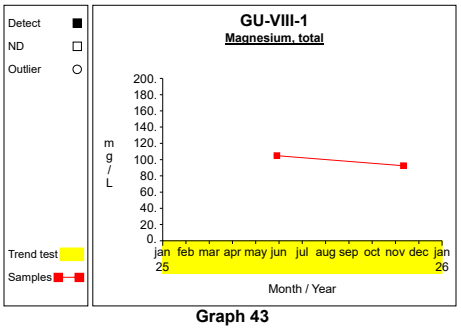
Graph 40



Graph 41



Graph 42



Graph 43

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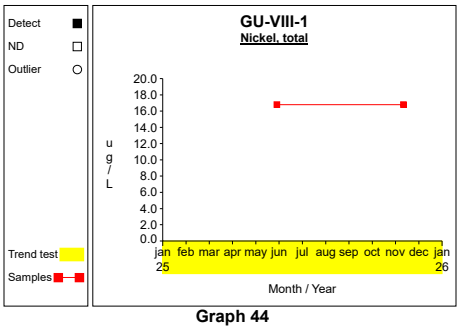
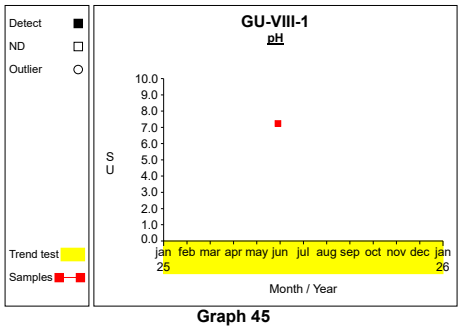
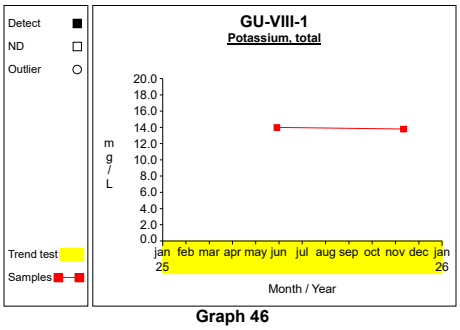
Time Series



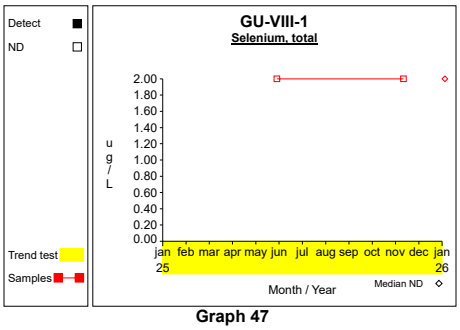
Graph 44



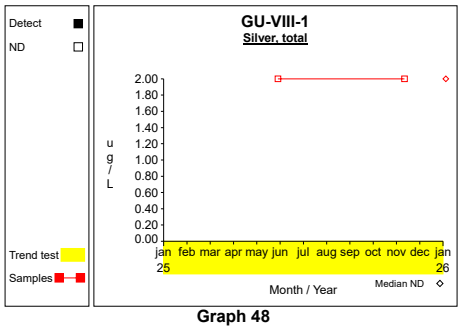
Graph 45



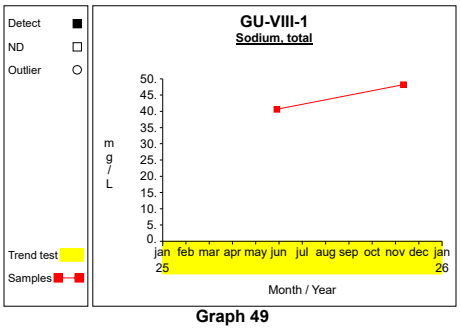
Graph 46



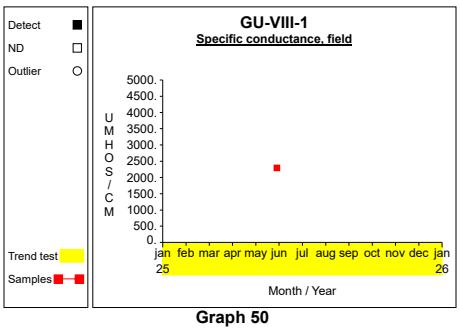
Graph 47



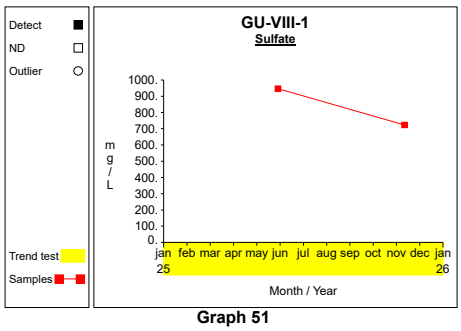
Graph 48



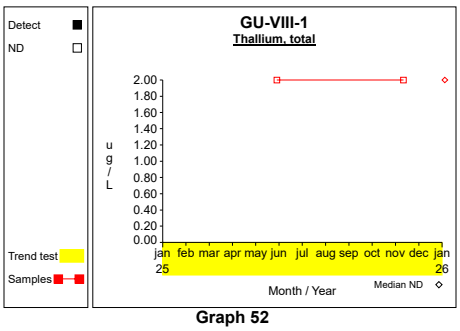
Graph 49



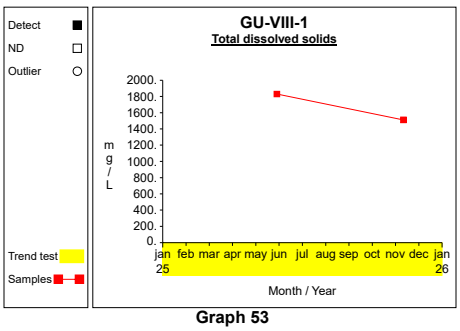
Graph 50



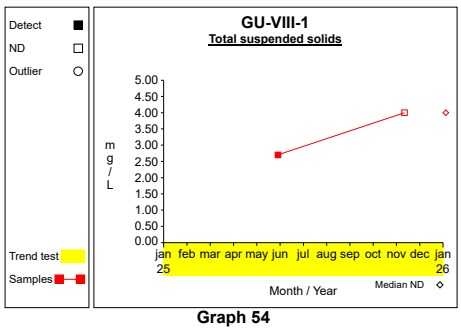
Graph 51



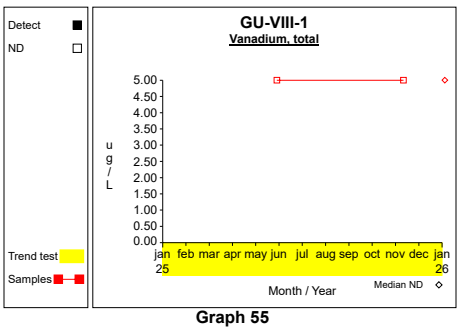
Graph 52



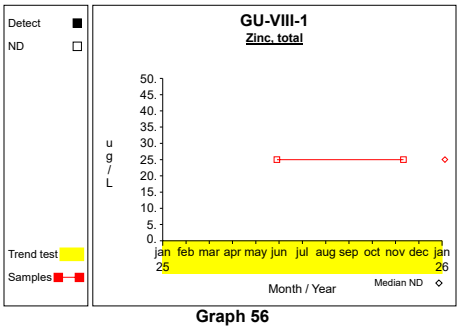
Graph 53



Graph 54



Graph 55



Graph 56

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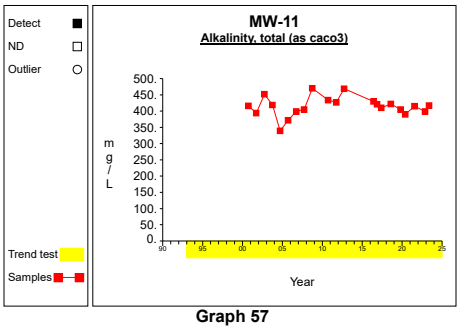
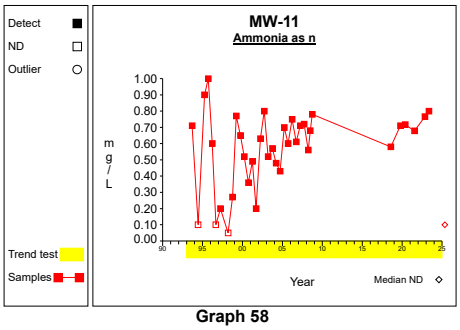
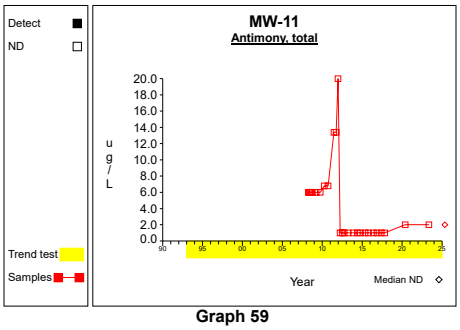
Time Series



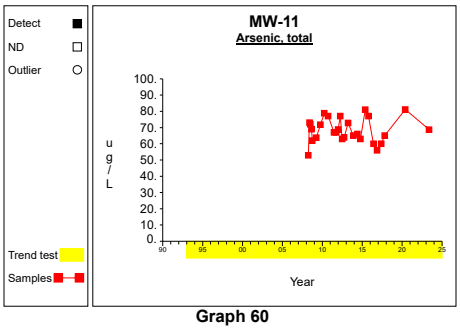
Graph 57



Graph 58



Graph 59



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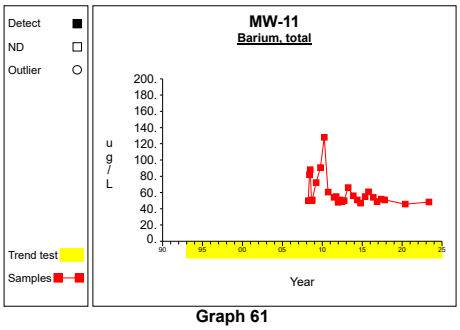

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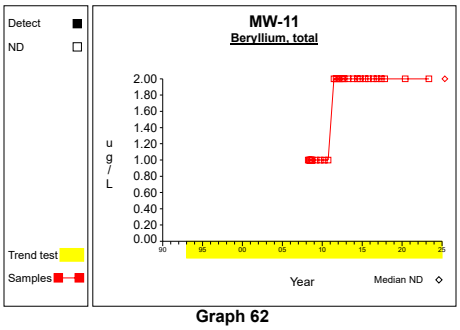

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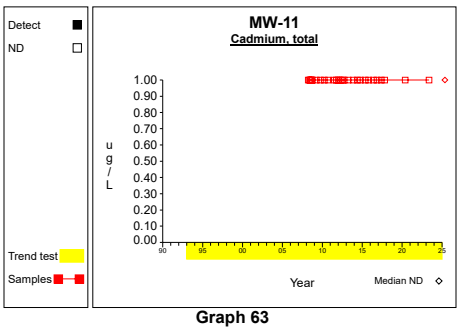

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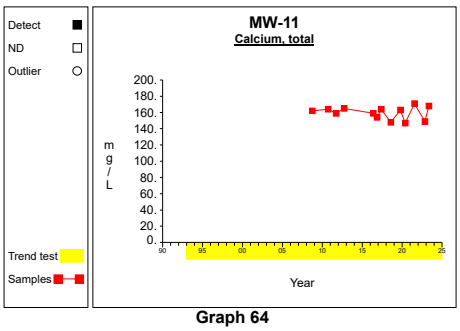

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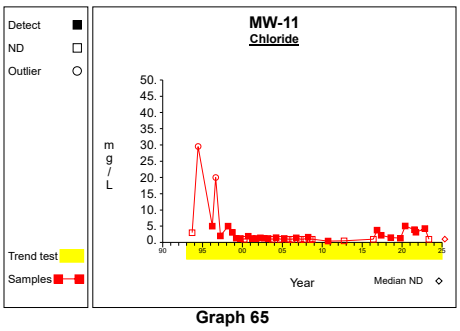

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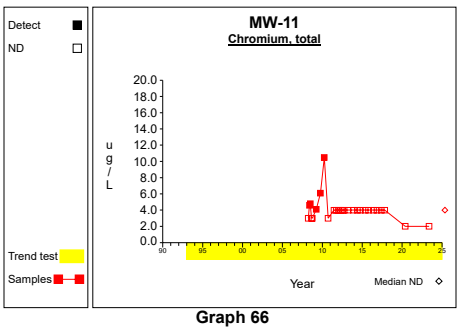

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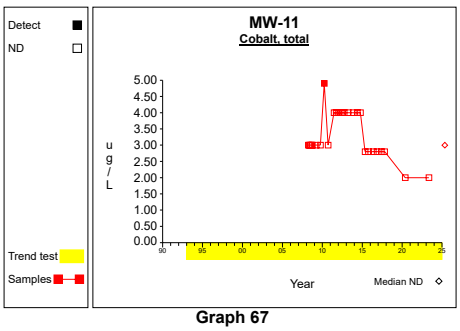

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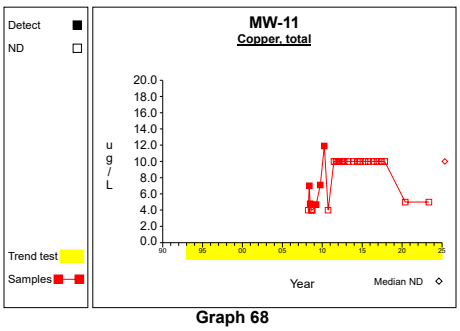

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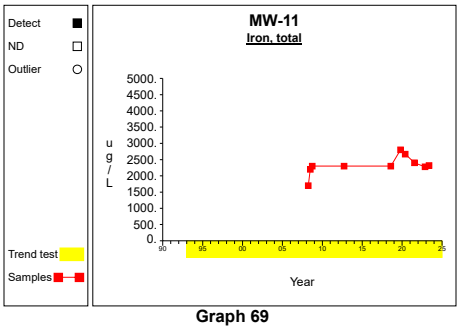

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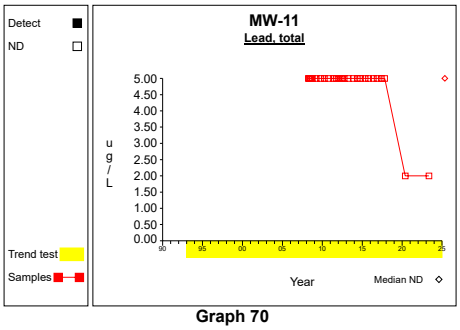

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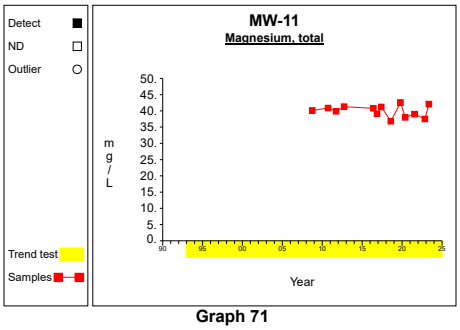

Graph 71

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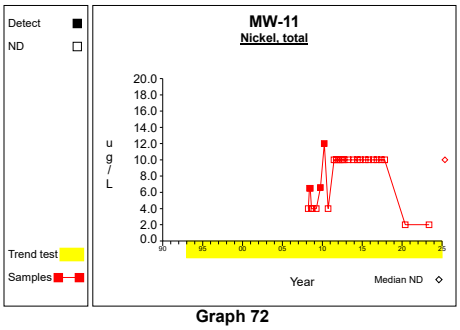
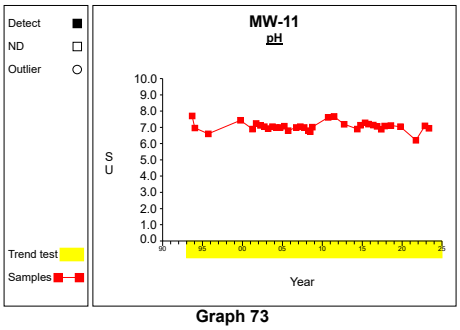


Graph 72



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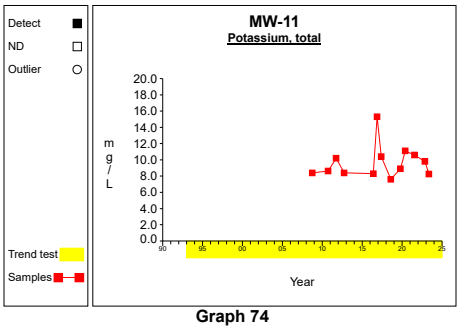

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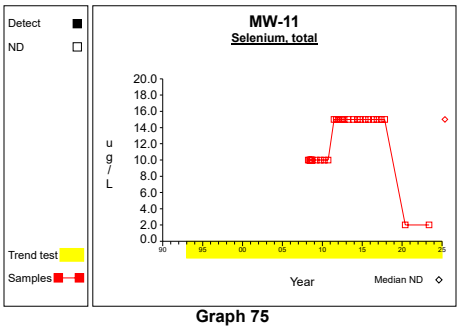

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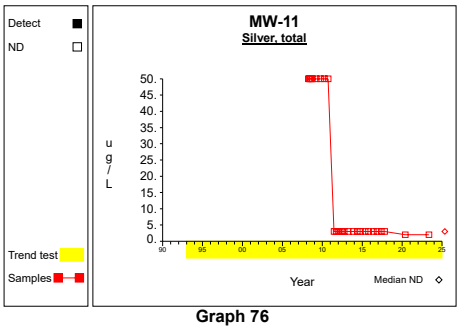

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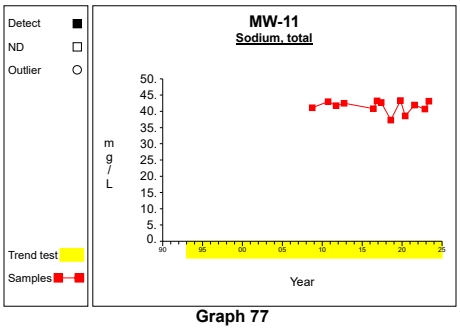

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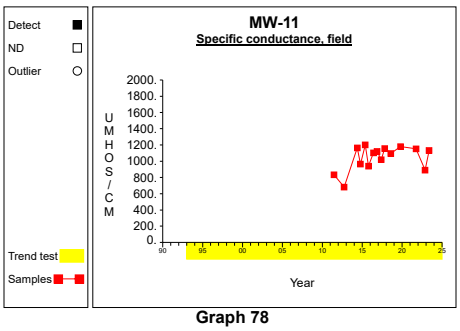

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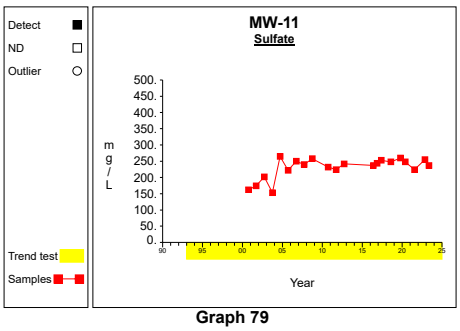

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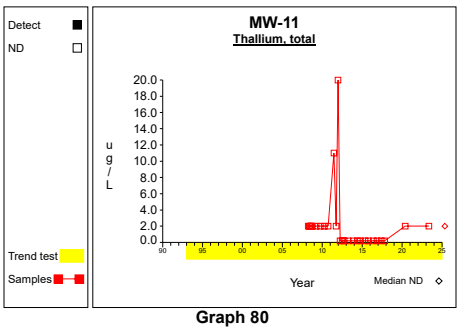

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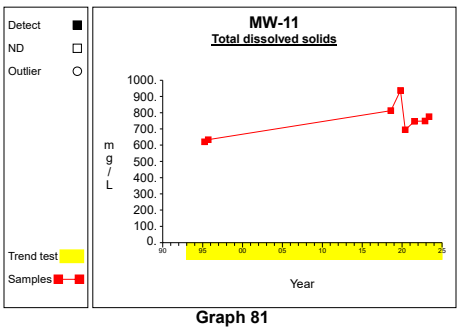

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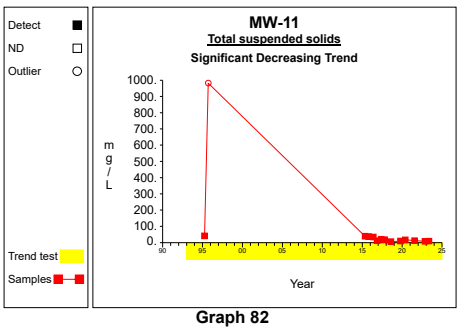

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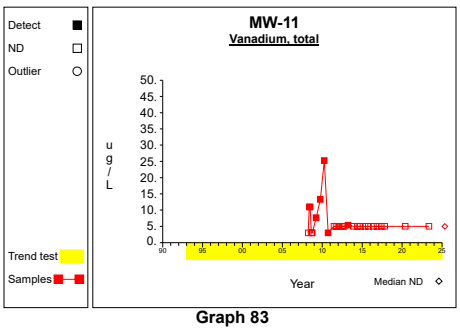

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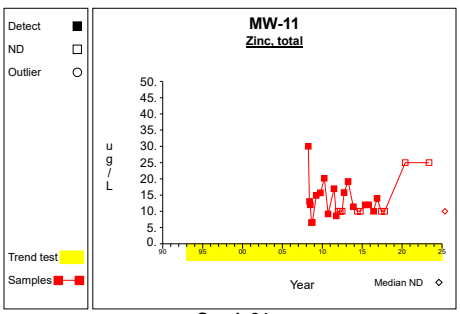

Graph 84

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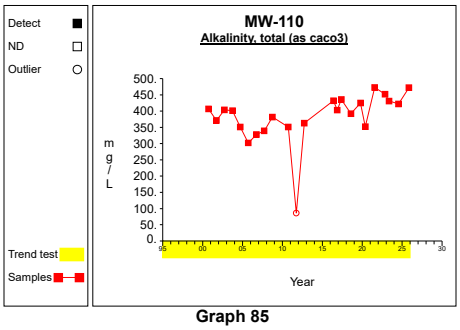
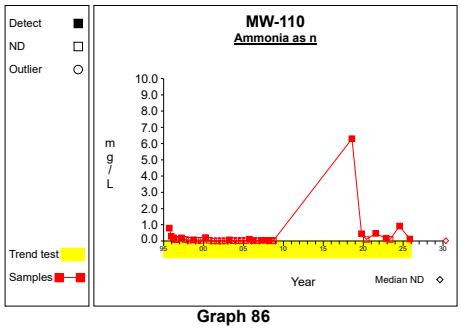


Graph 85



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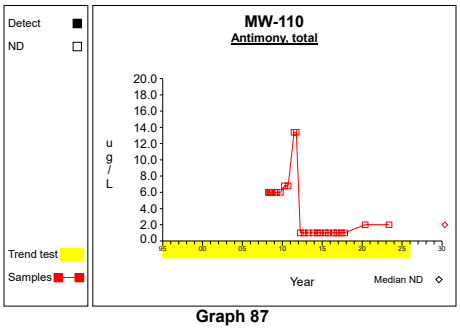

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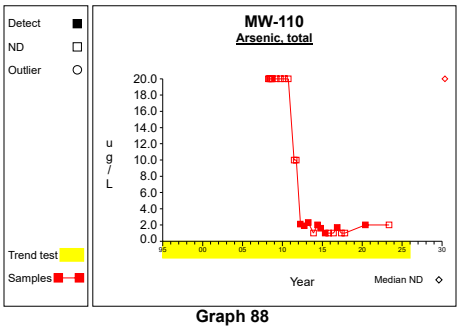

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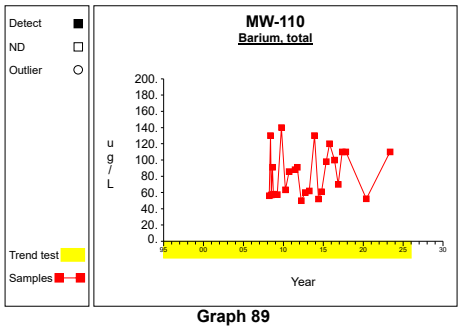

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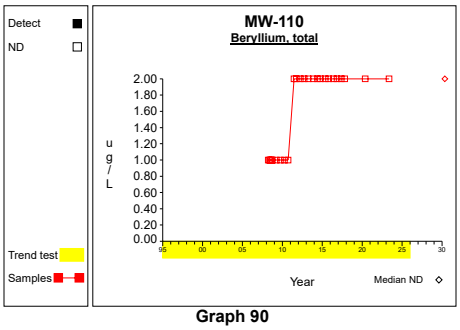

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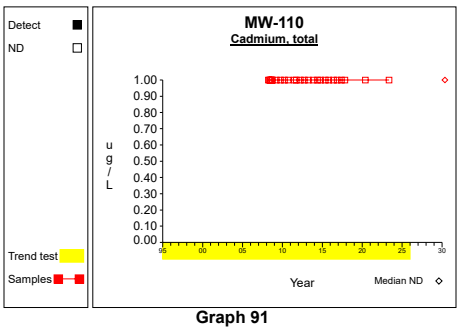

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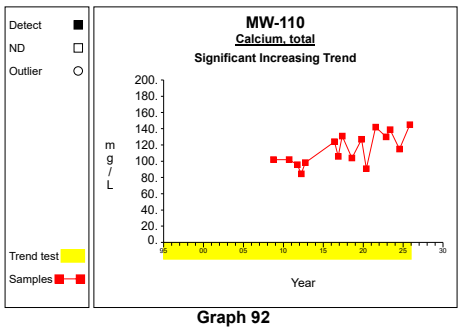

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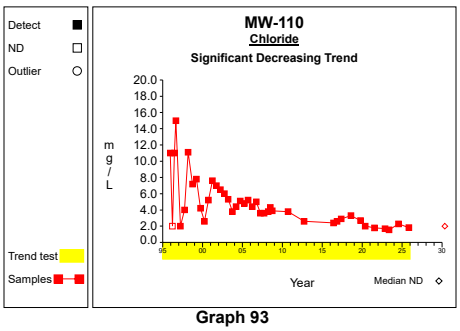

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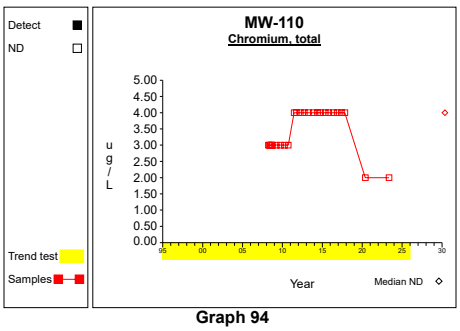

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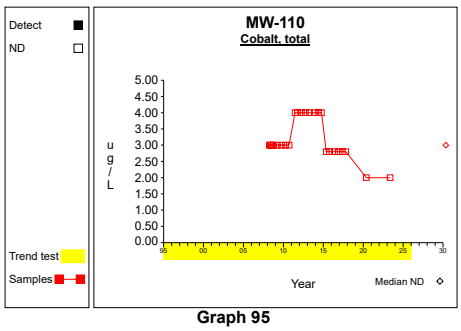

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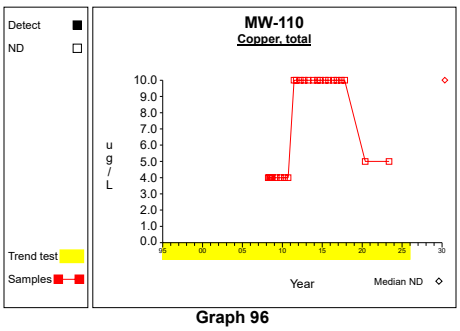

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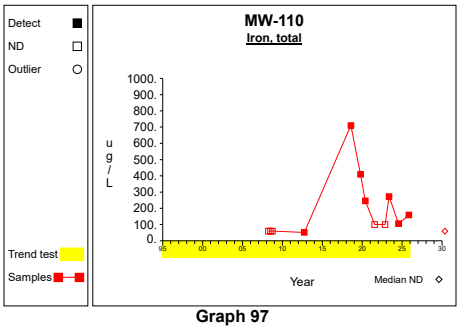

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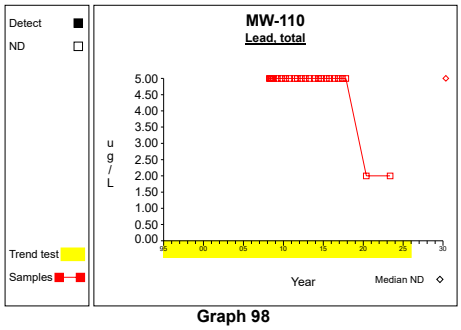
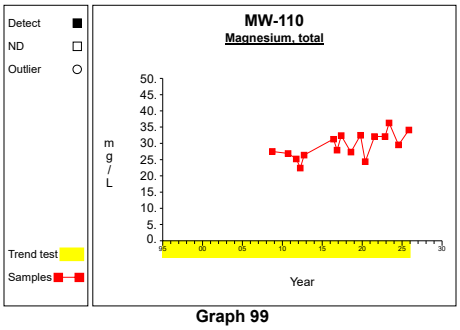


Graph 98



Graph 99

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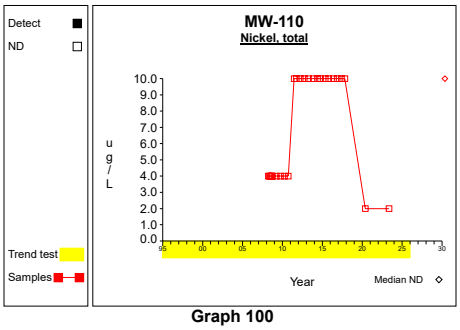
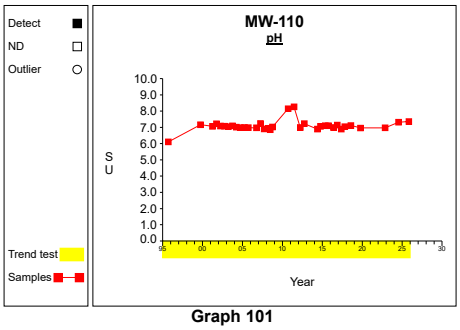
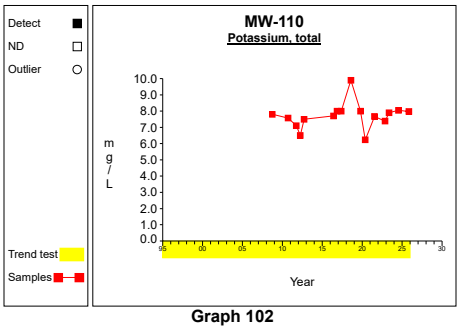


Graph 100



Graph 101



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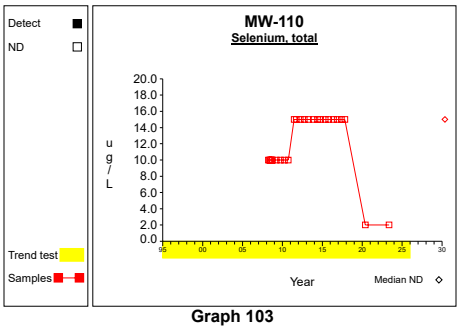

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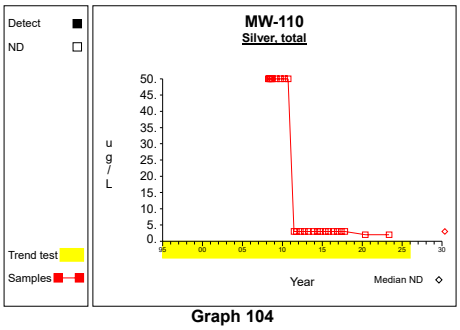

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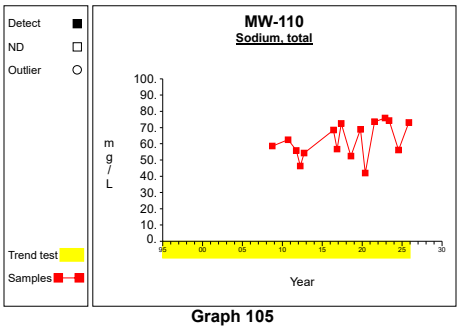
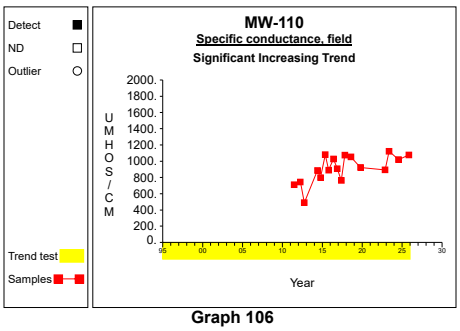
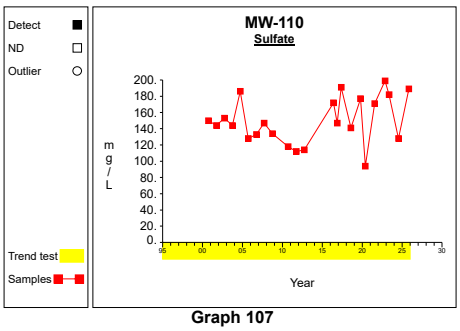


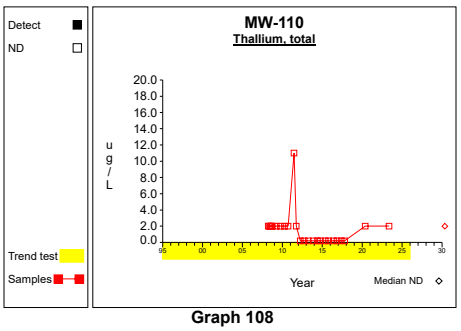
Graph 105



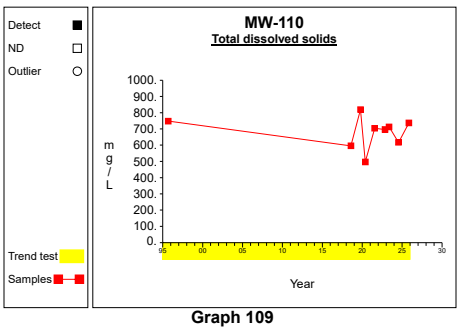
Graph 106



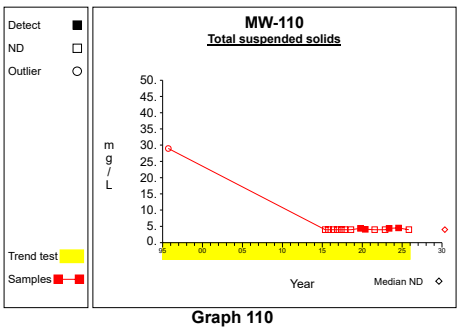
Graph 107



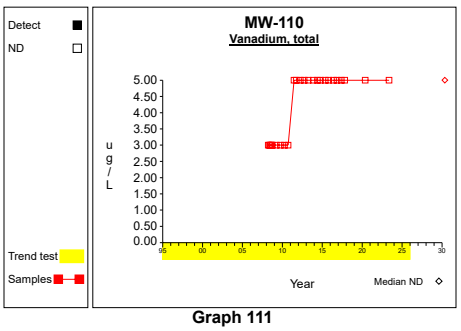
Graph 108



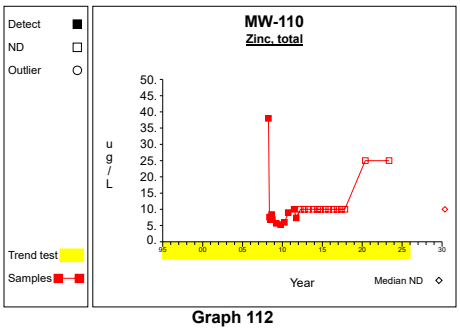
Graph 109



Graph 110



Graph 111



Graph 112

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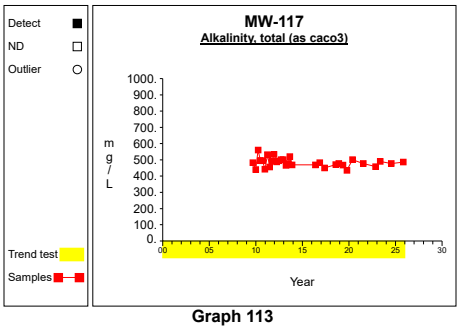
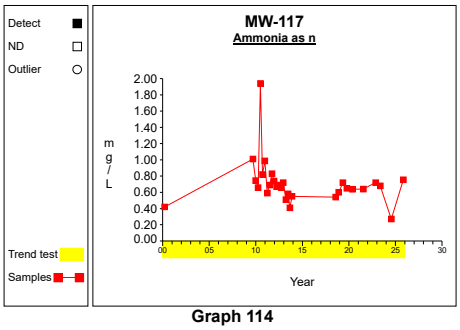
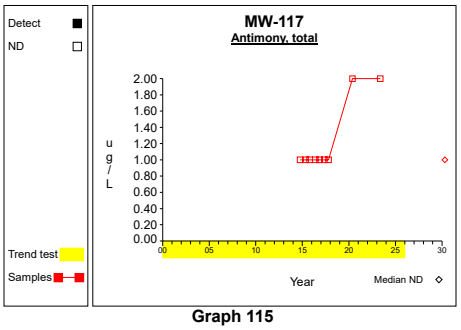
Time Series



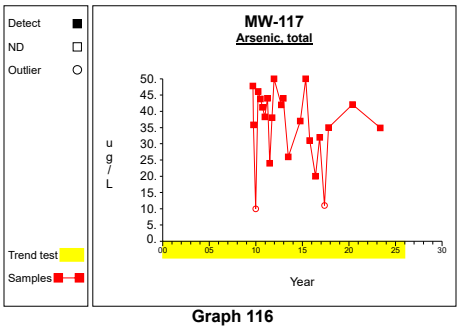
Graph 113



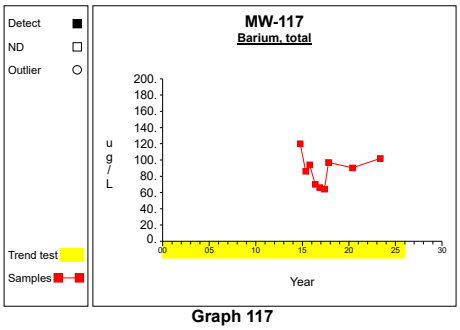
Graph 114



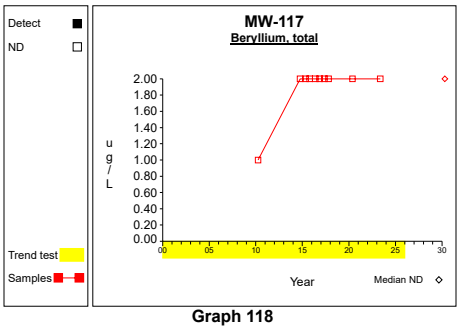
Graph 115



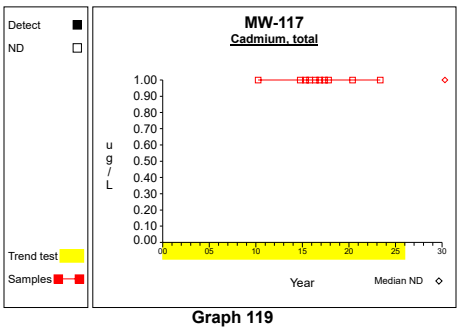
Graph 116



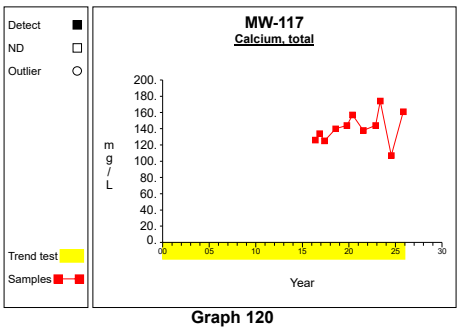
Graph 117



Graph 118



Graph 119



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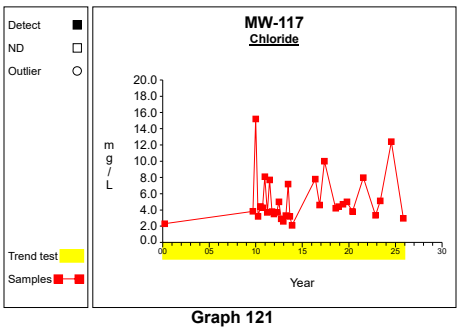

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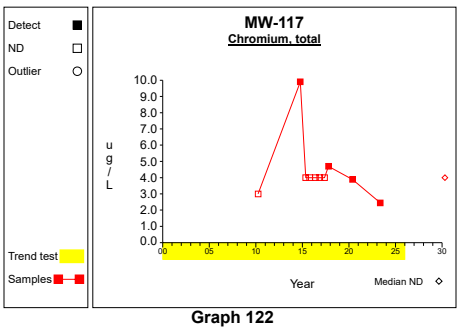

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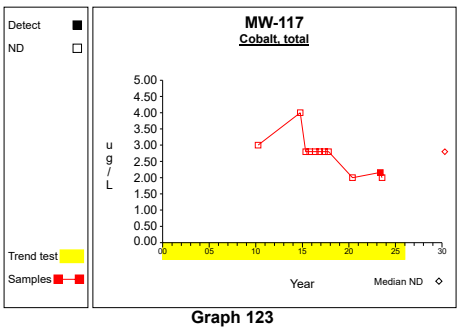

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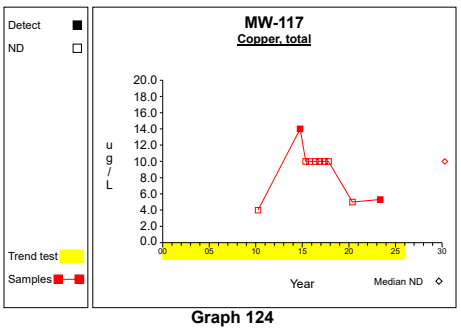

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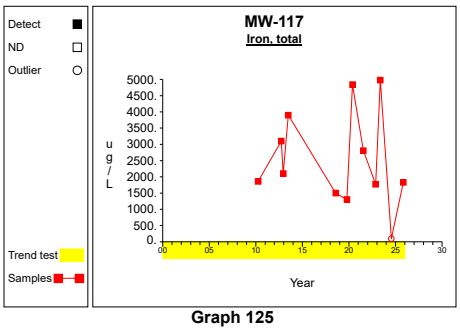

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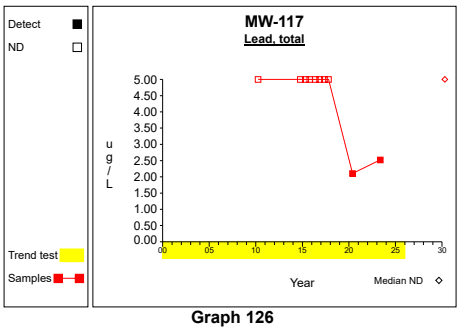
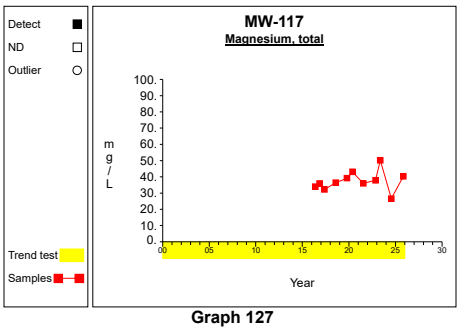


Graph 126



Graph 127

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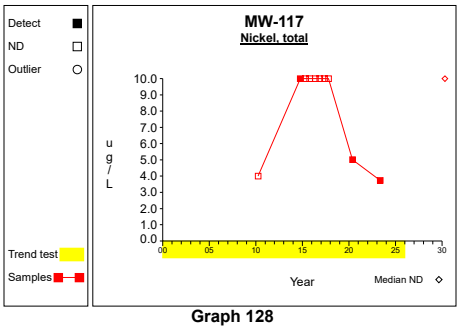
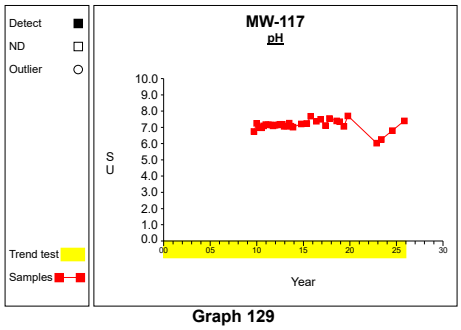
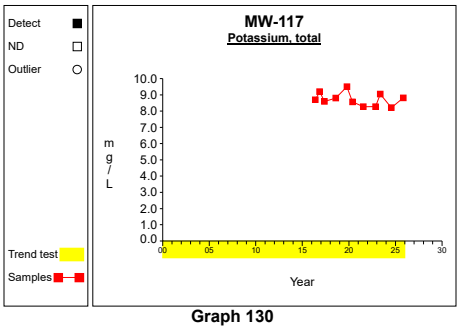


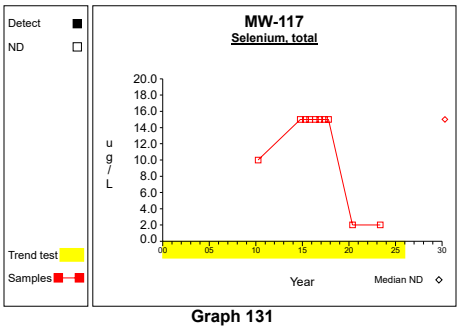
Graph 128



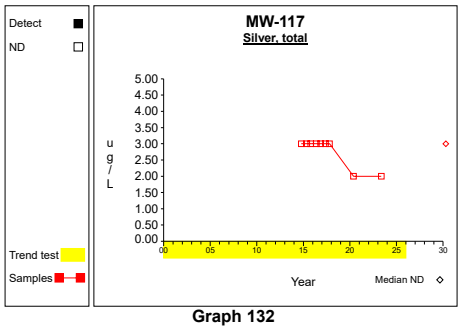
Graph 129



Graph 130



Graph 131



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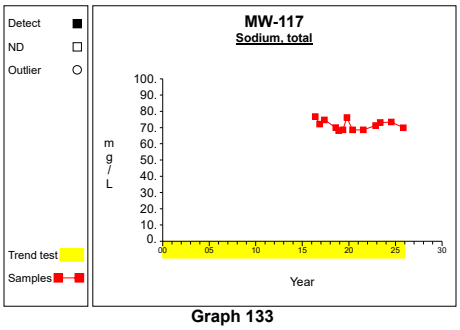

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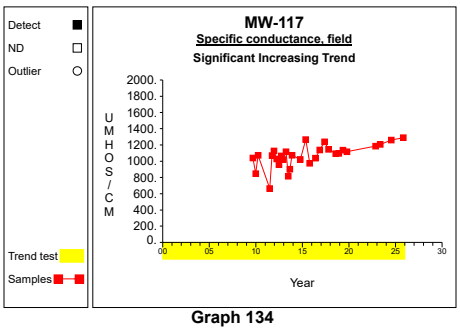

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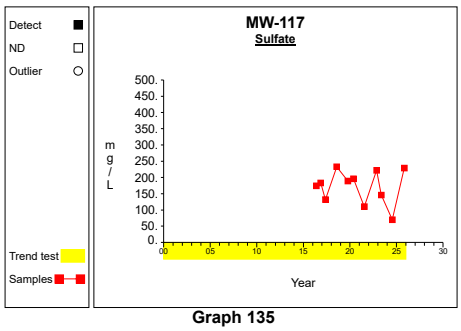

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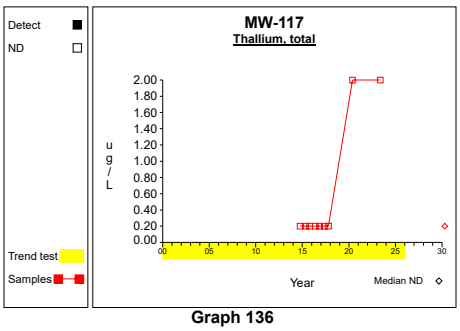

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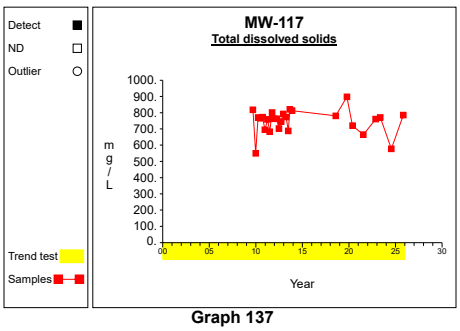
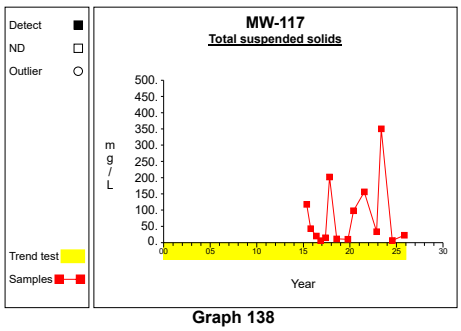
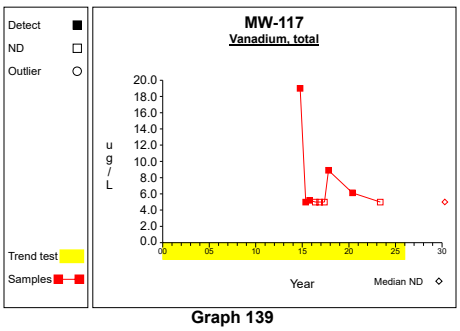


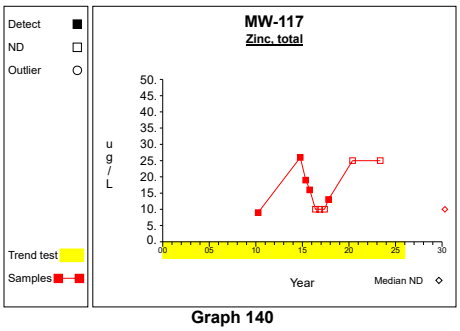
Graph 137



Graph 138



Graph 139



Graph 140

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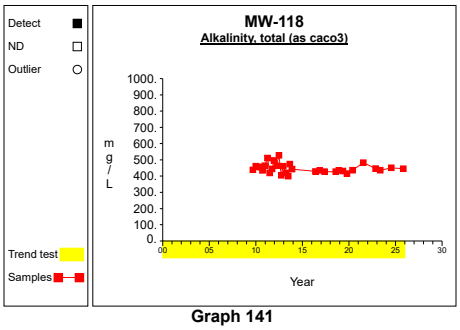
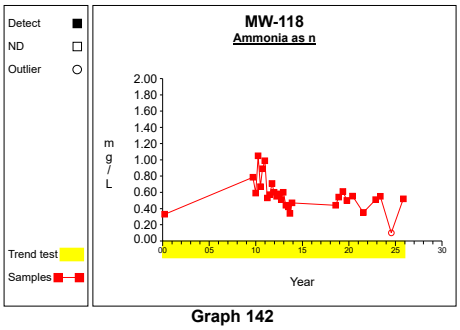
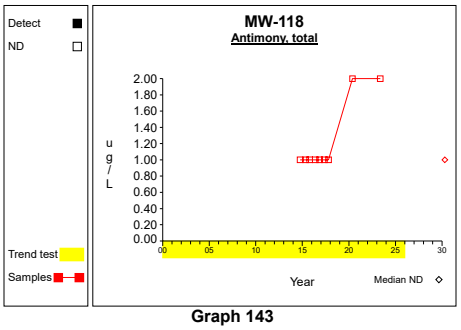


Graph 141



Graph 142



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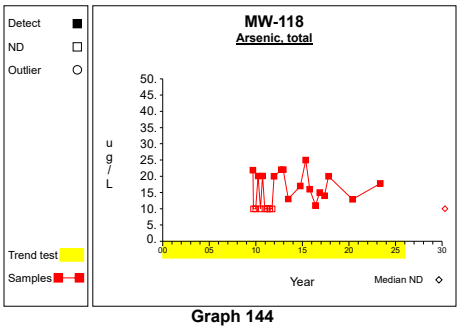

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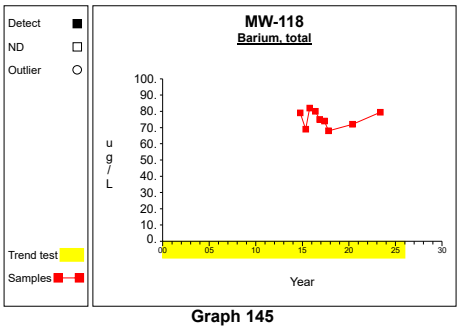
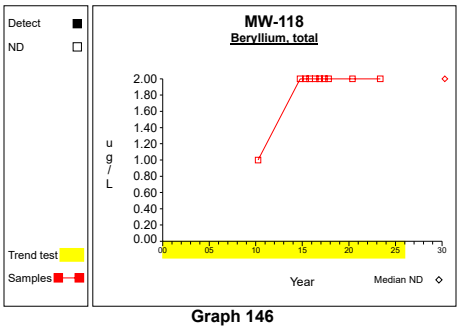
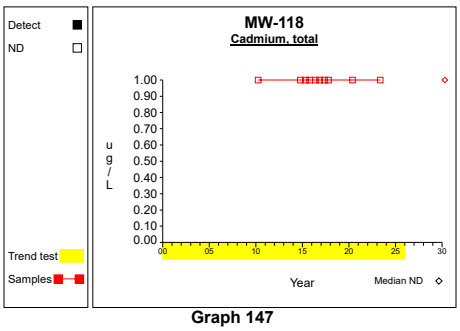


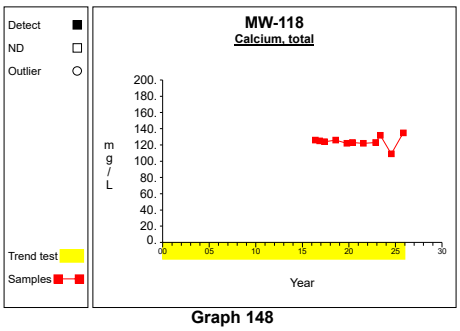
Graph 145



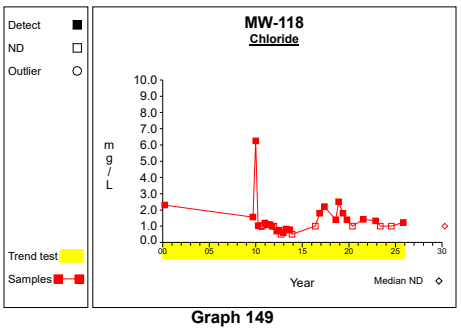
Graph 146



Graph 147



Graph 148



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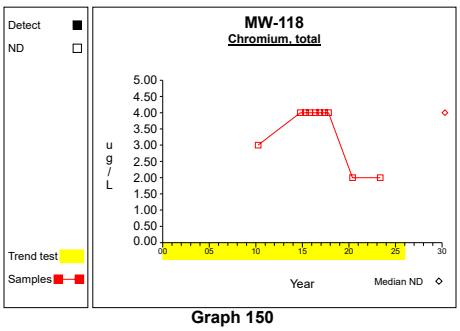
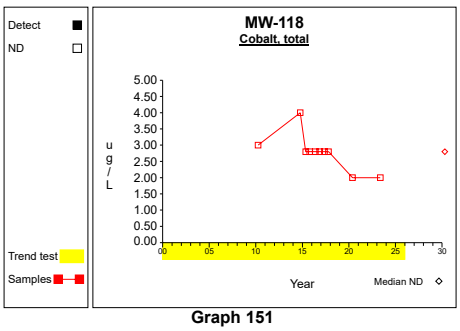
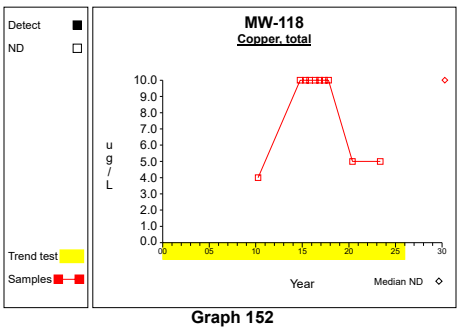


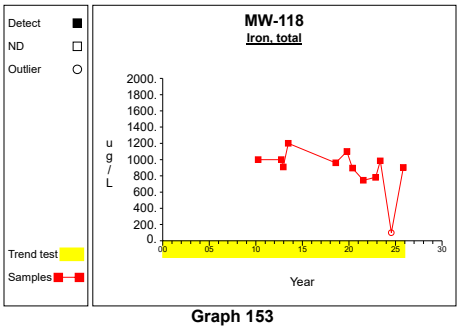
Graph 150



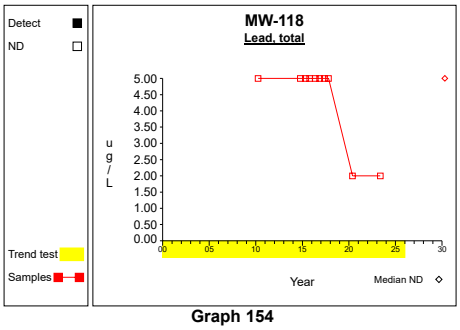
Graph 151



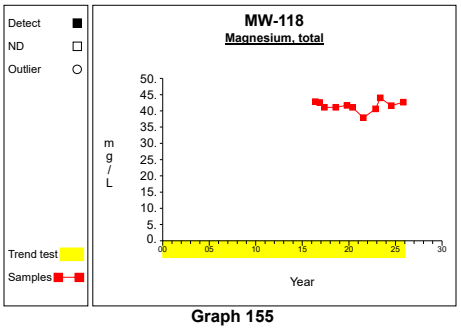
Graph 152



Graph 153



Graph 154



Graph 155

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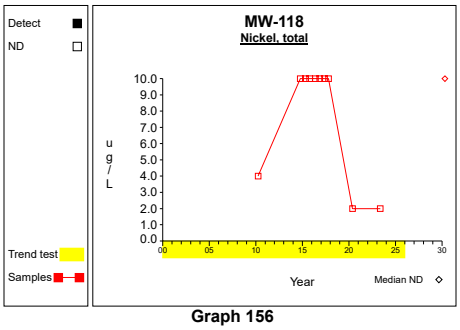
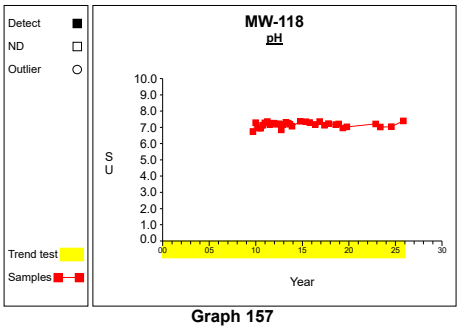
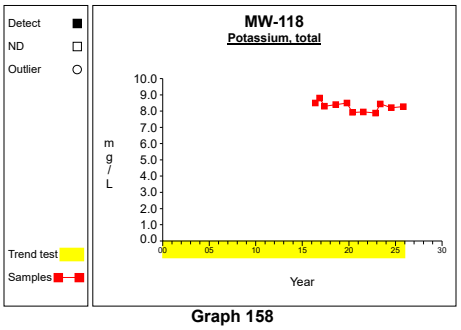


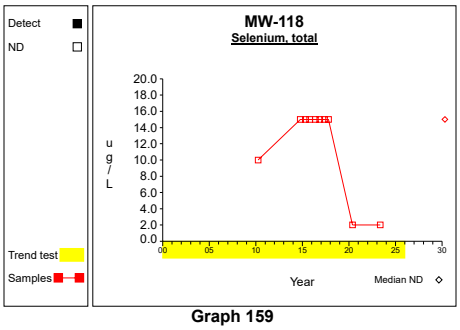
Graph 156



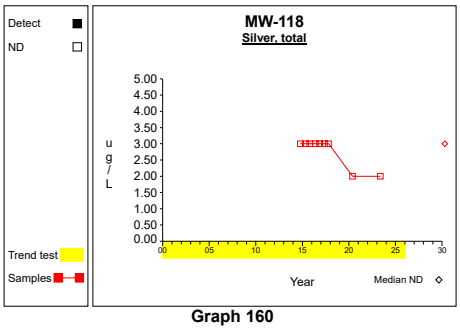
Graph 157



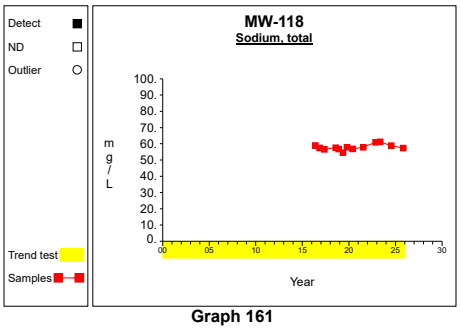
Graph 158



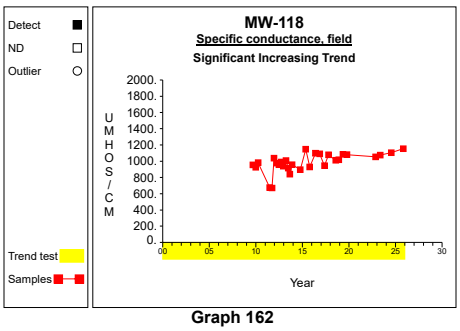
Graph 159



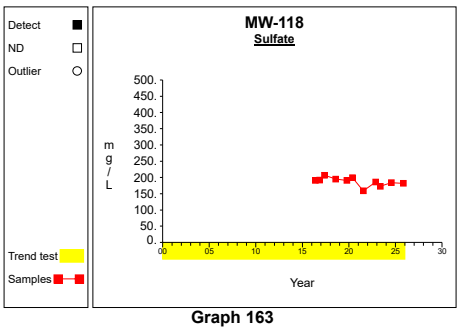
Graph 160



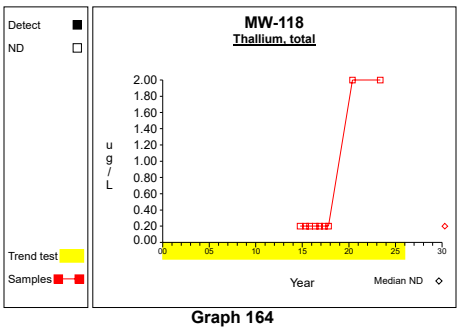
Graph 161



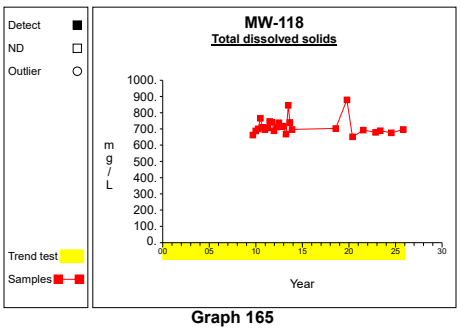
Graph 162



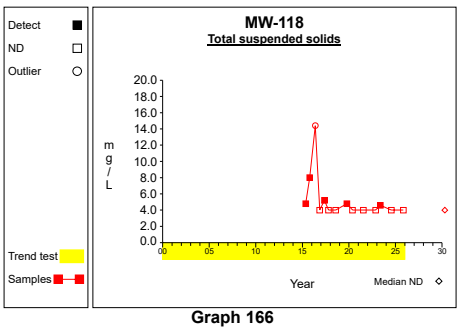
Graph 163



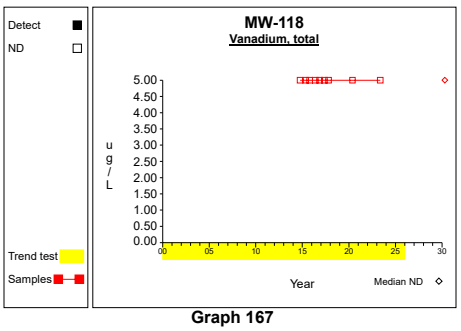
Graph 164



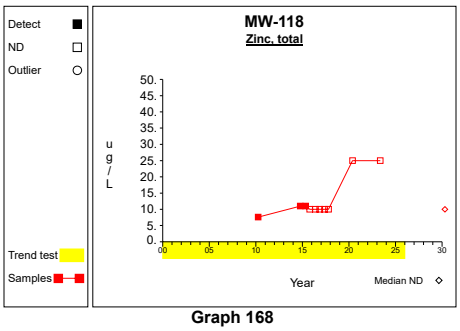
Graph 165



Graph 166



Graph 167



Graph 168

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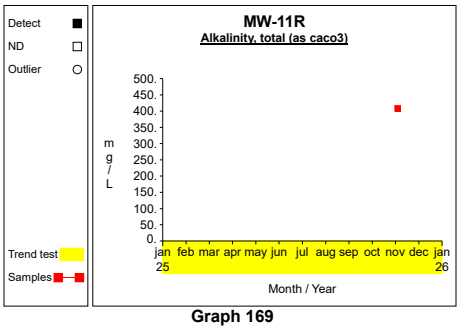
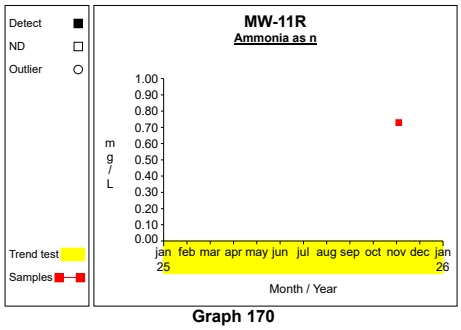
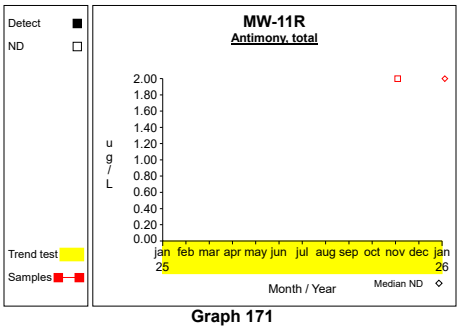
Time Series



Graph 169



Graph 170



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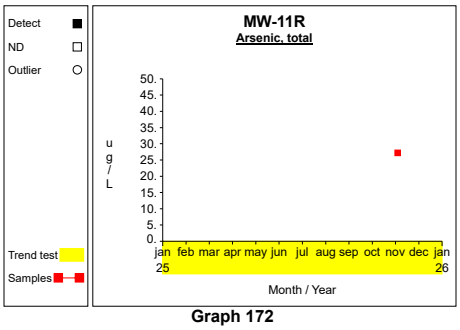

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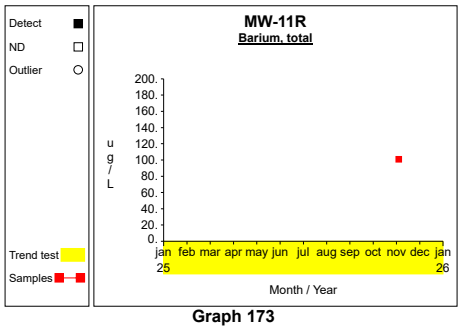

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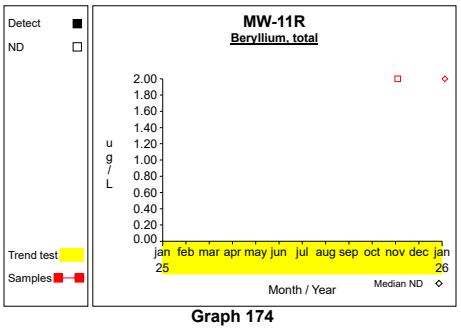

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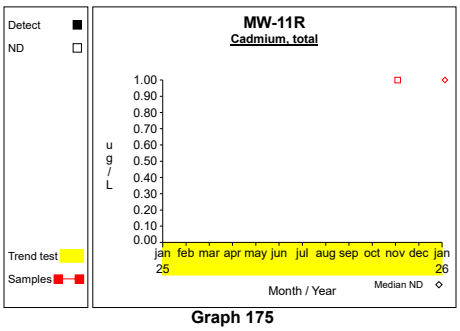

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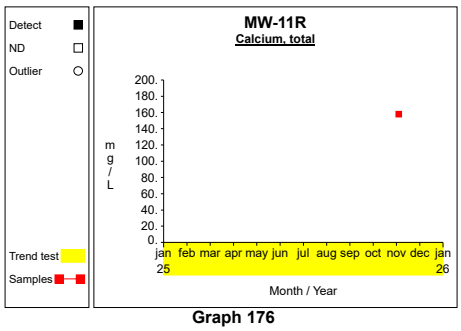

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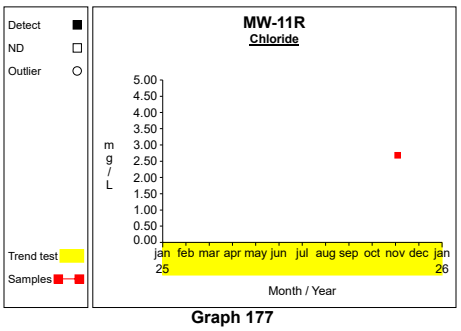

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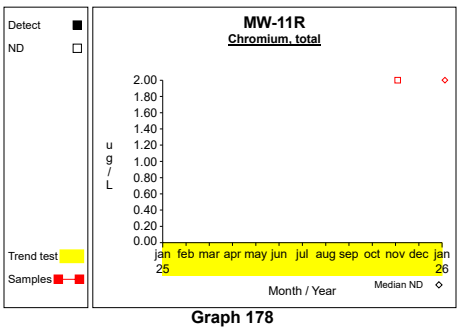

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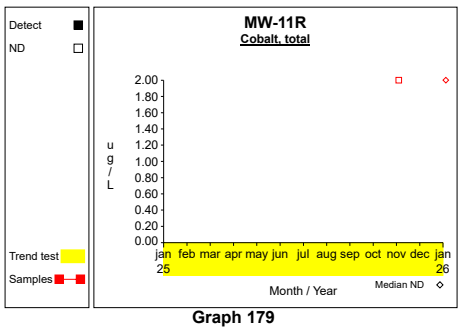

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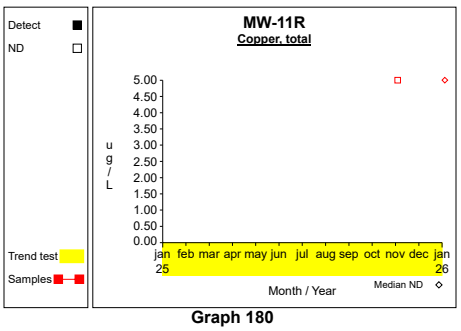

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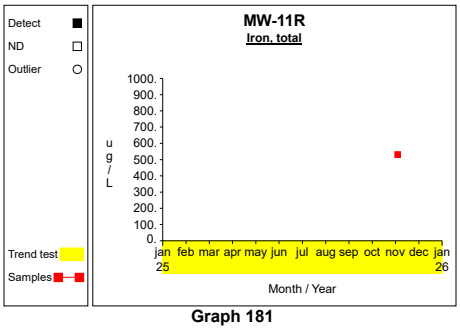

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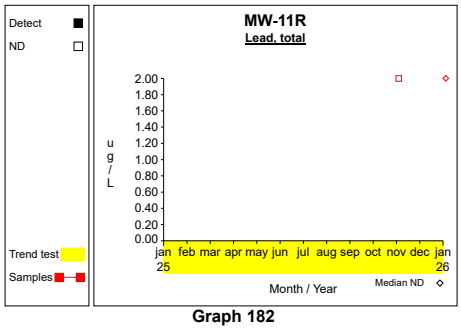

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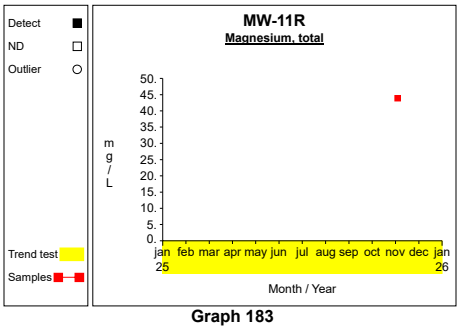

Graph 183

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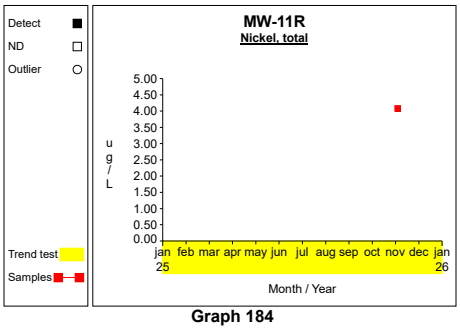
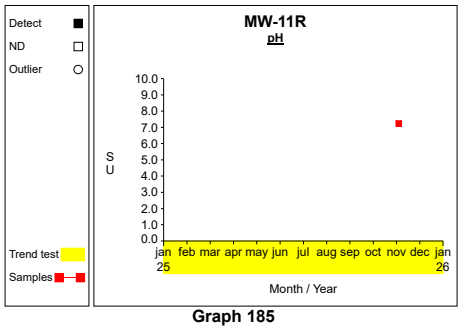
Time Series



Graph 184



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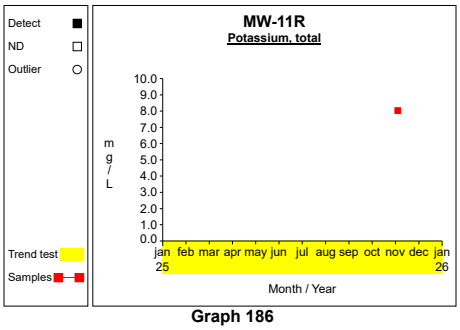

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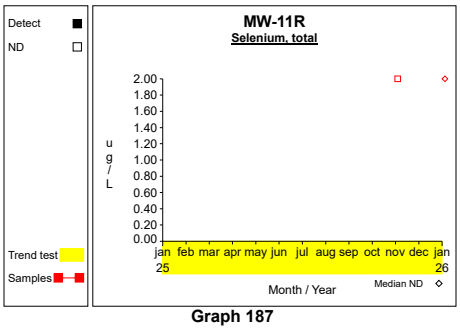

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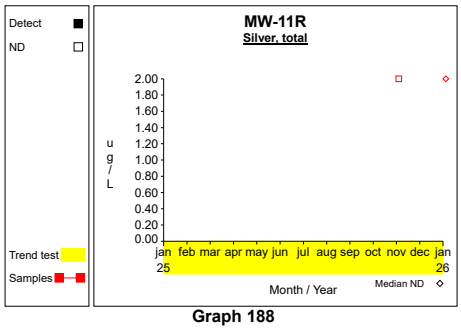

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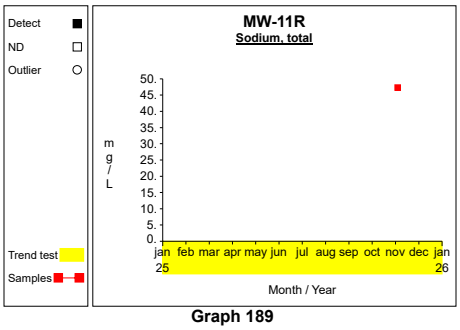

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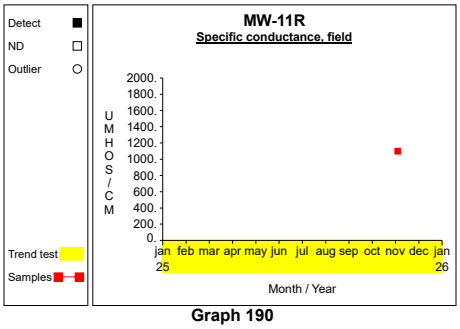

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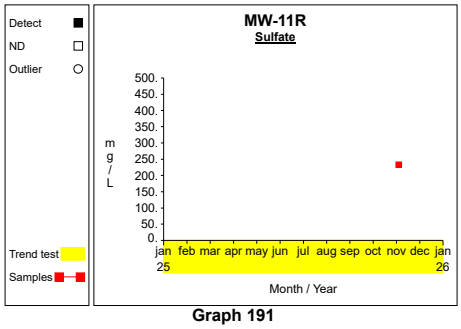

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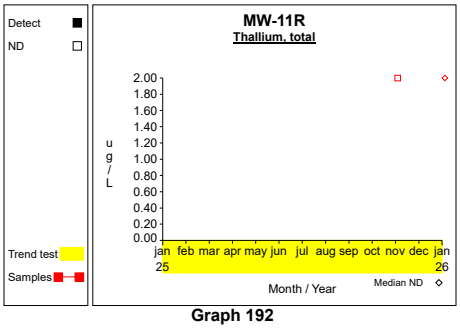

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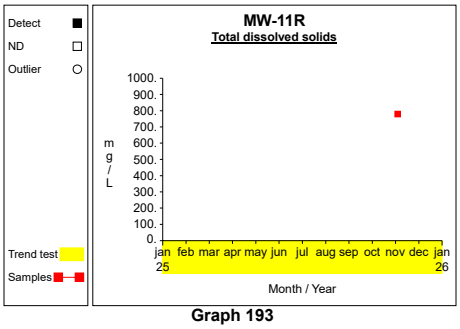

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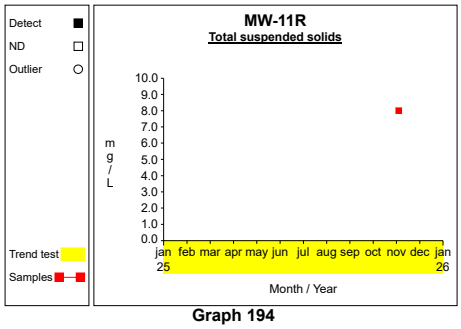

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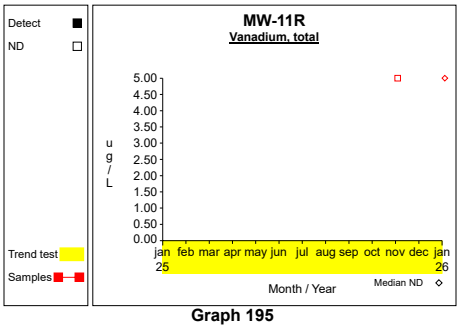

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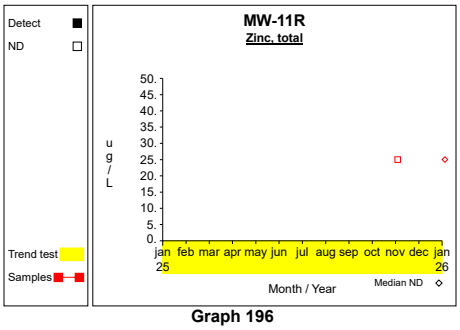
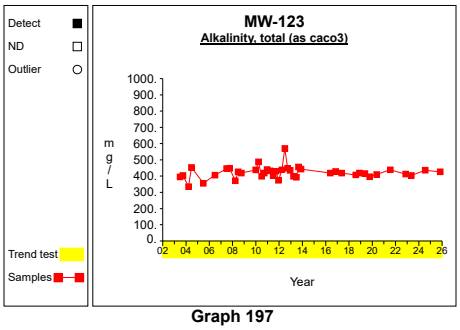
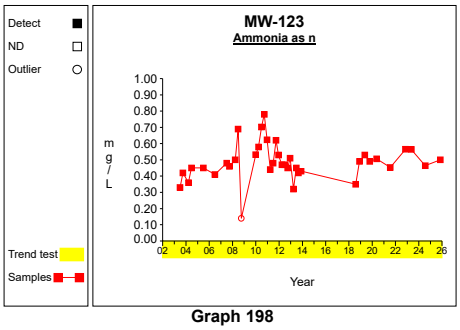


Graph 196

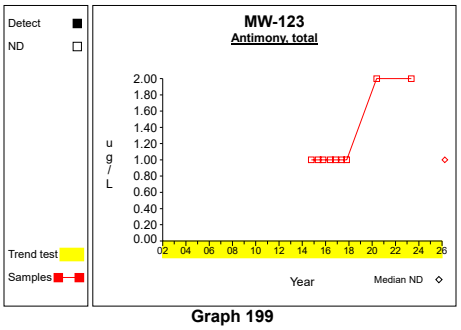
Time Series



Graph 197



Graph 198



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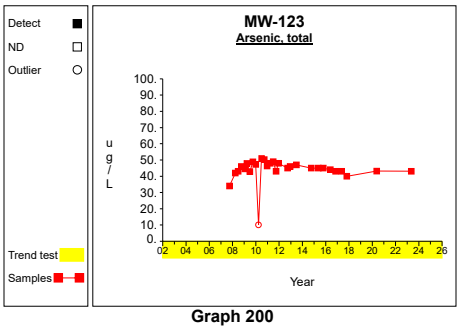

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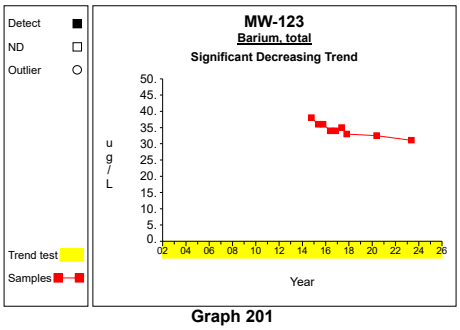

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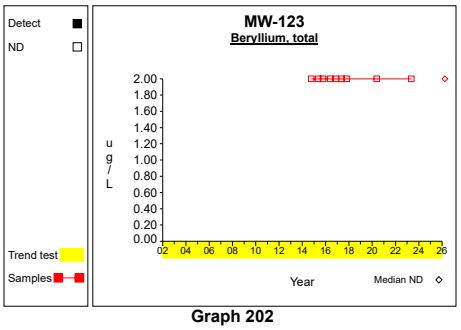

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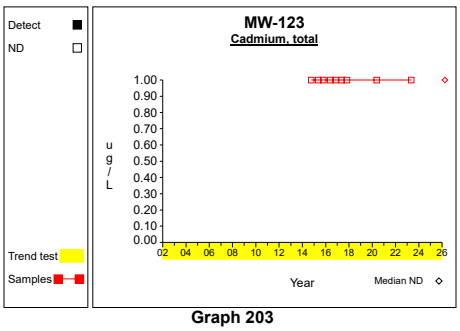

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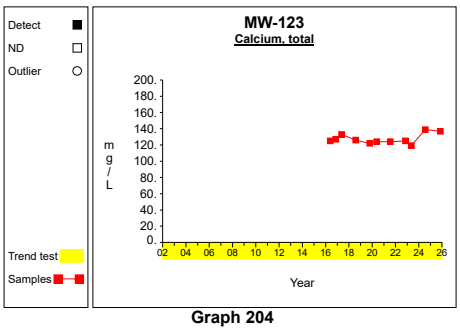

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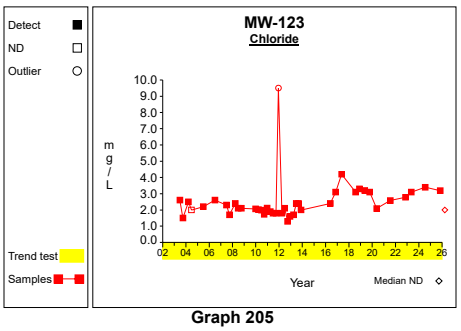

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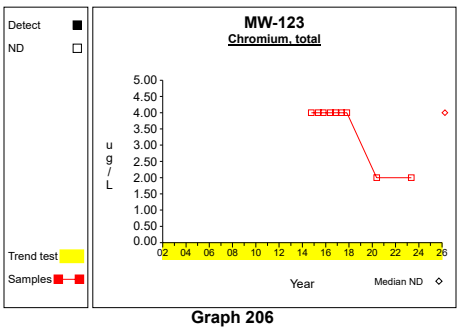

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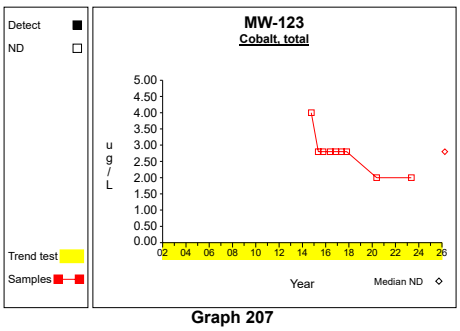

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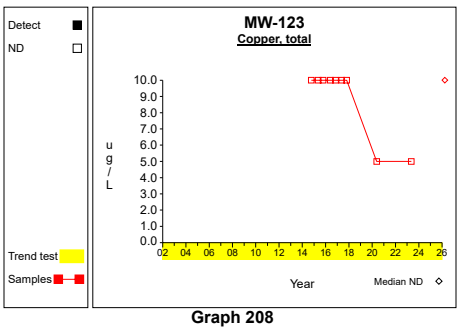

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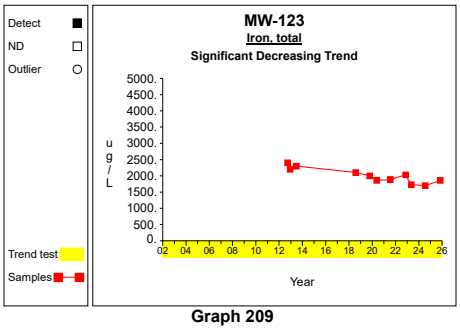

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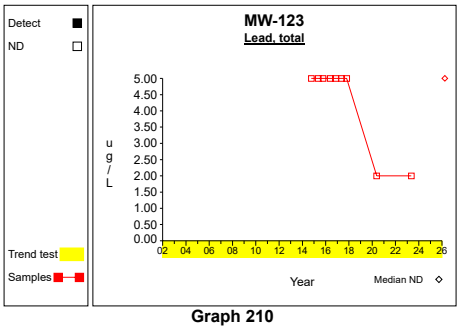

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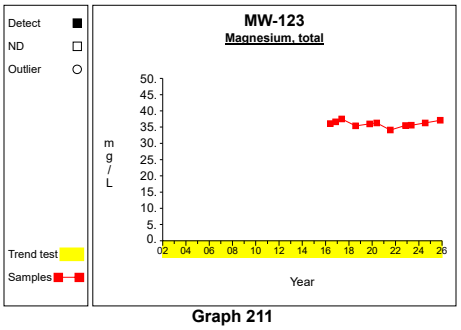

Graph 211

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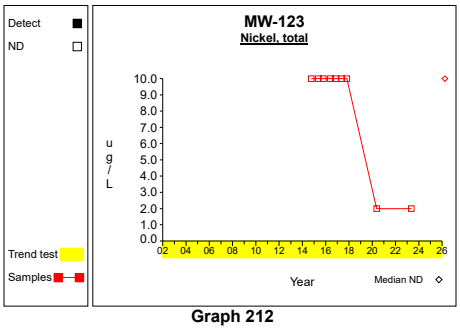
Time Series



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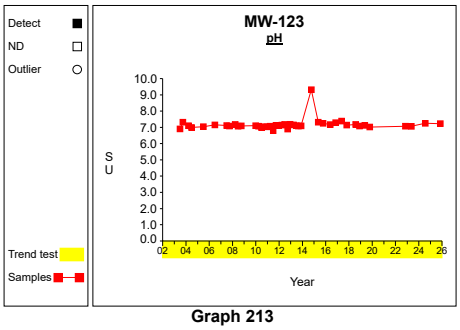

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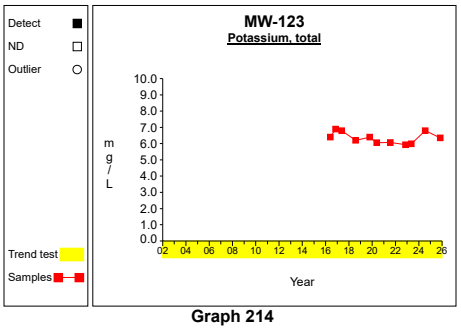

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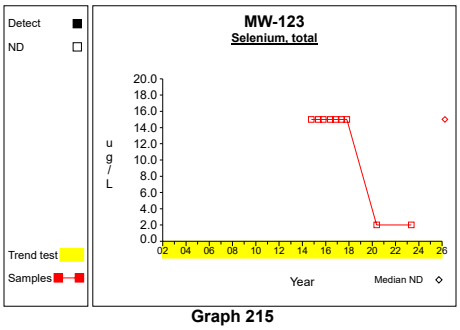

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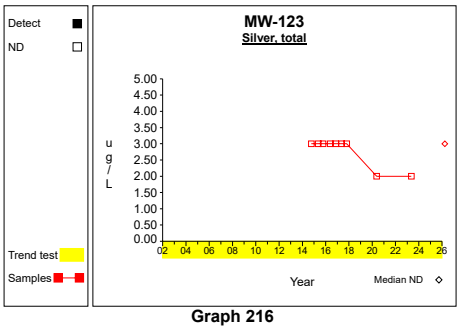

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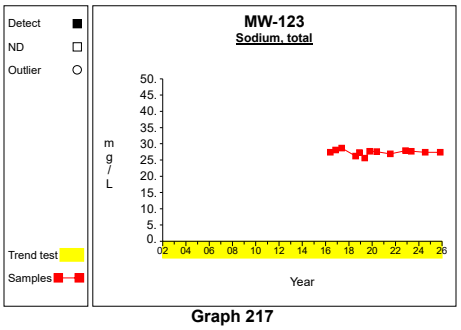

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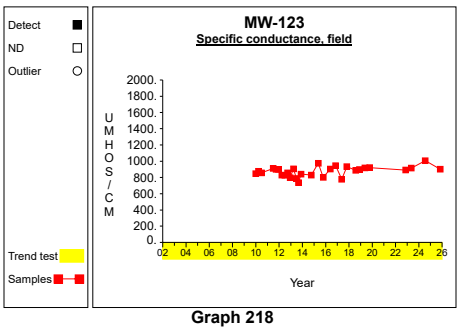

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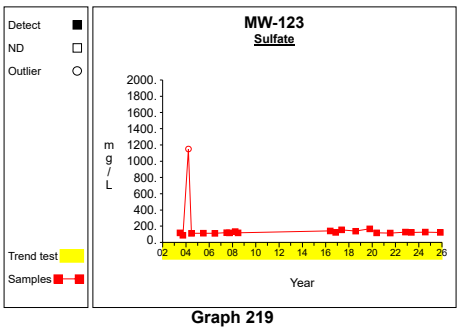

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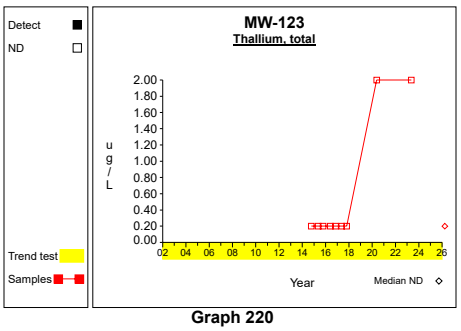

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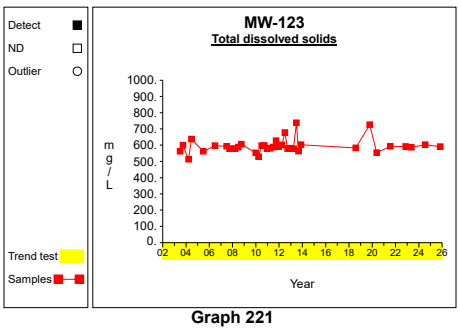

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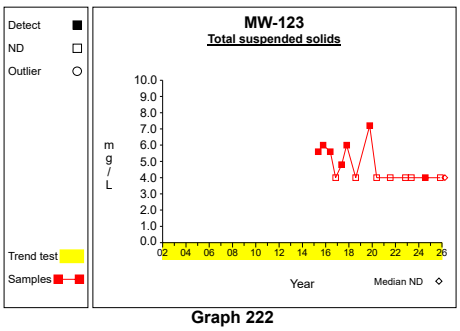
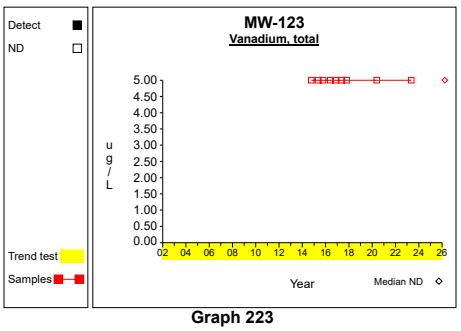


Graph 222



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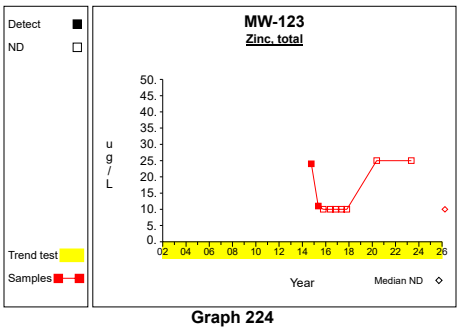
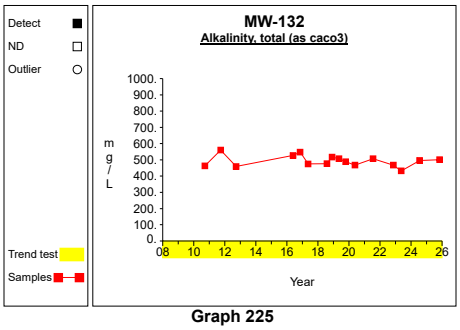
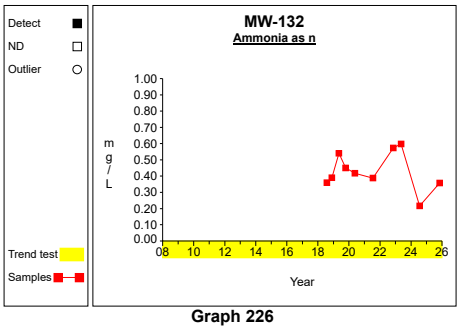


Graph 224

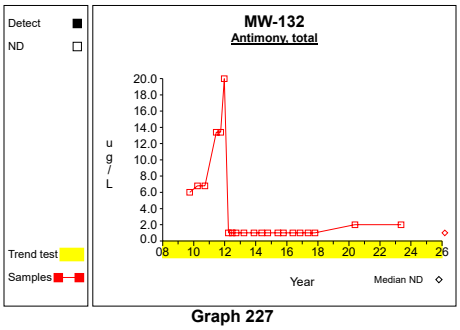
Time Series



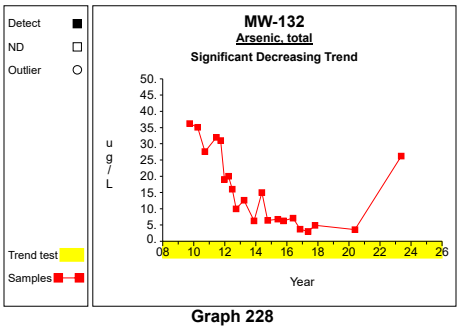
Graph 225



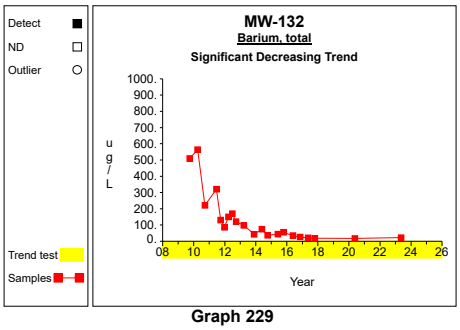
Graph 226



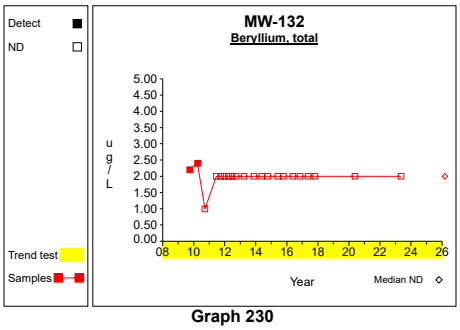
Graph 227



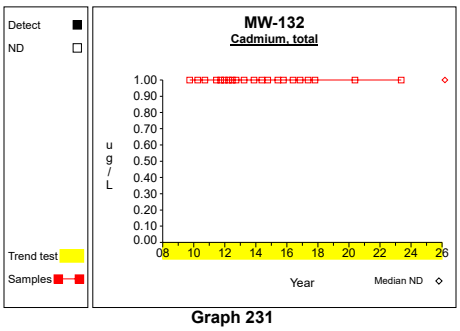
Graph 228



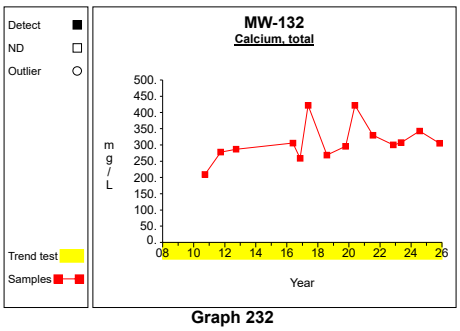
Graph 229



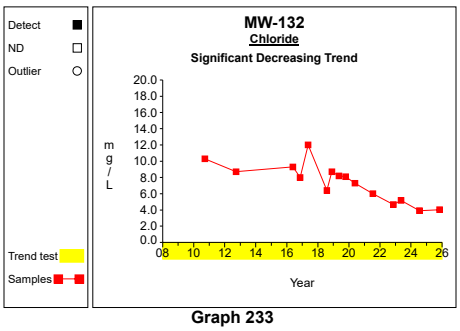
Graph 230



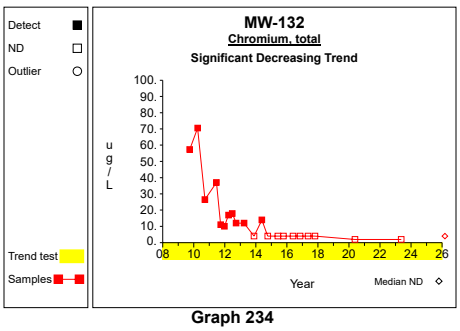
Graph 231



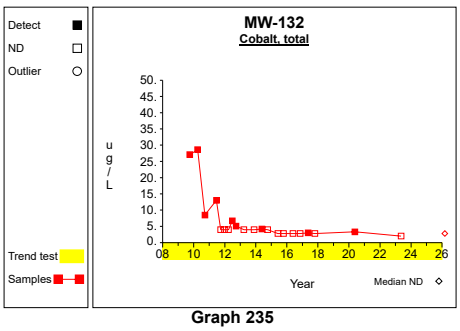
Graph 232



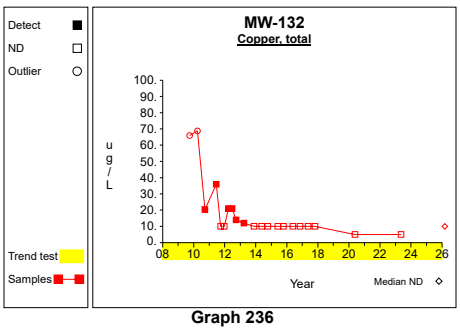
Graph 233



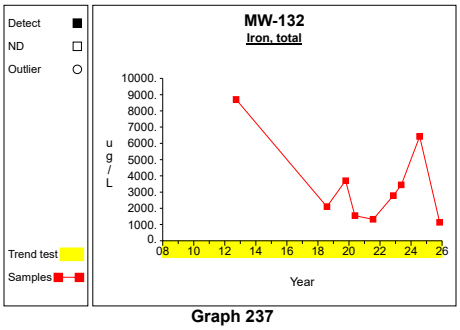
Graph 234



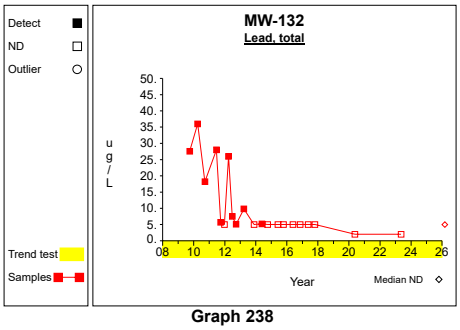
Graph 235



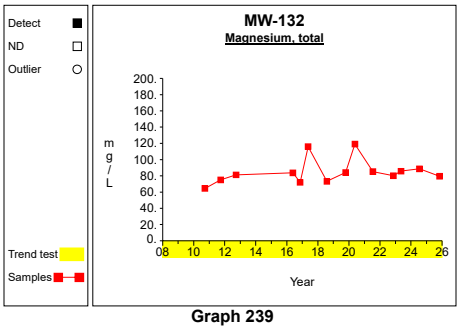
Graph 236



Graph 237



Graph 238



Graph 239

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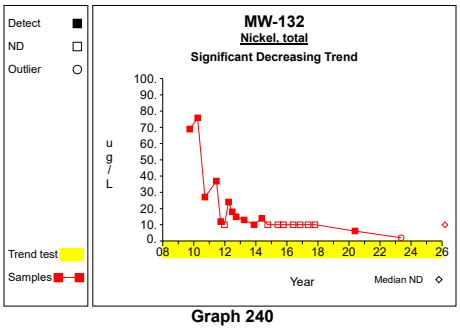
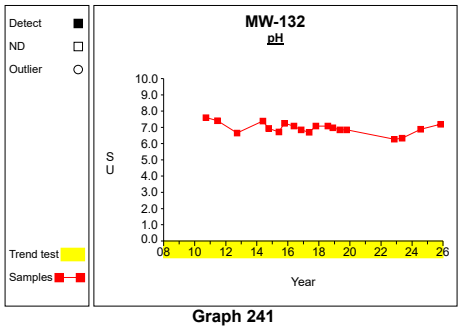
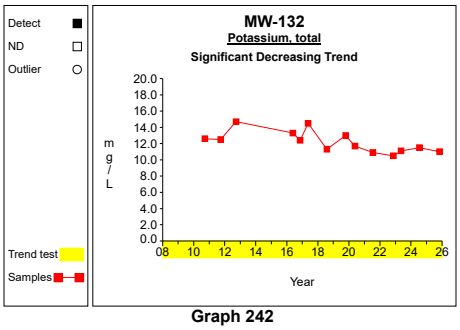
Time Series



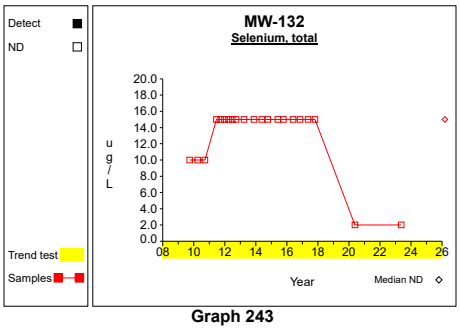
Graph 240



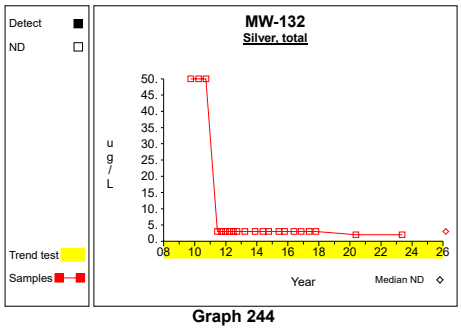
Graph 241



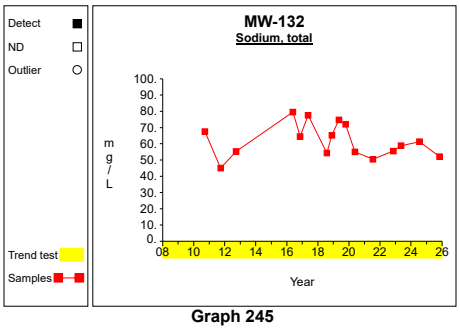
Graph 242



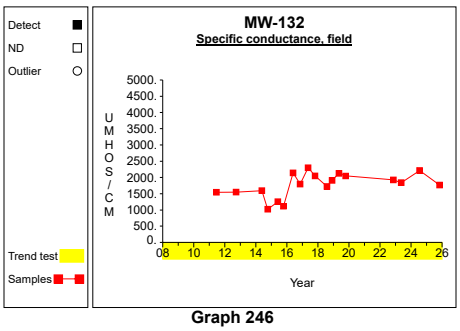
Graph 243



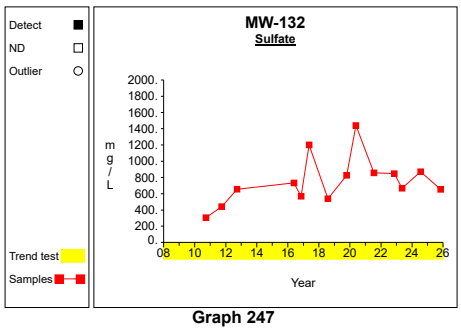
Graph 244



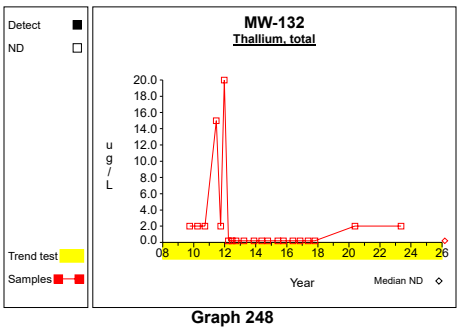
Graph 245



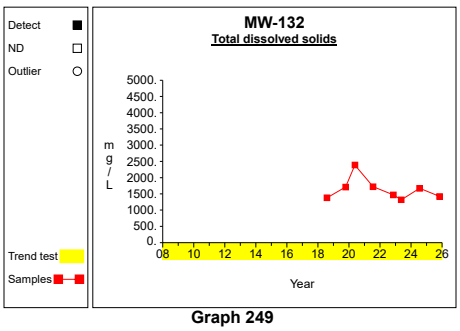
Graph 246



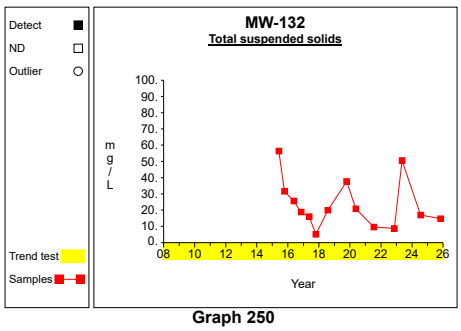
Graph 247



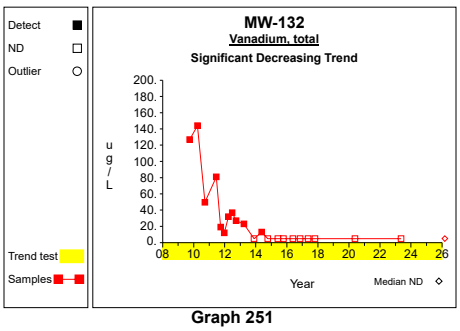
Graph 248



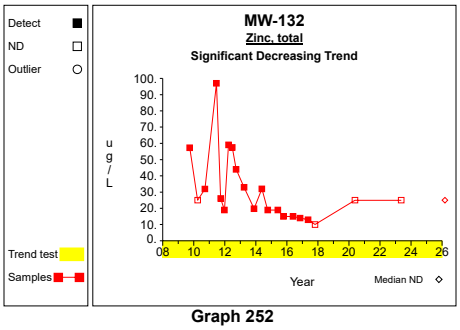
Graph 249



Graph 250

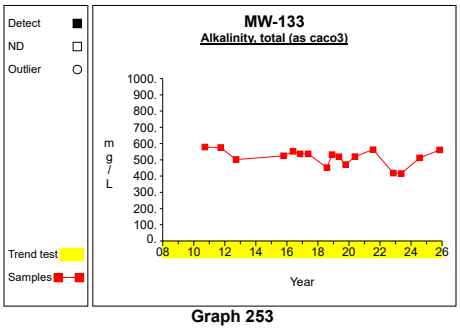


Graph 251

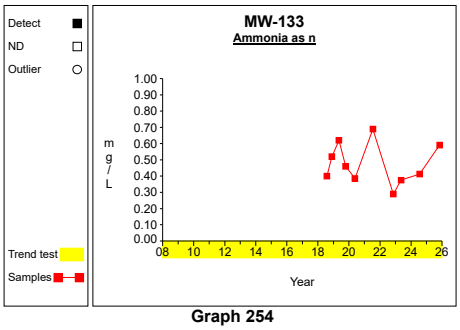


Graph 252

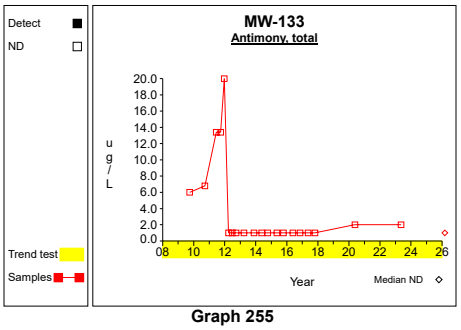
Time Series



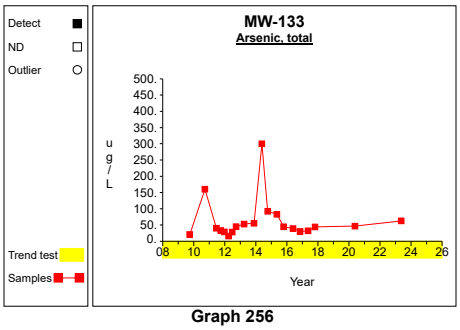
Graph 253



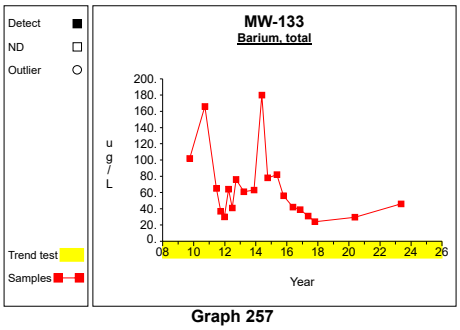
Graph 254



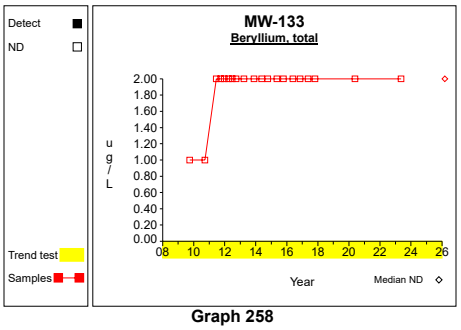
Graph 255



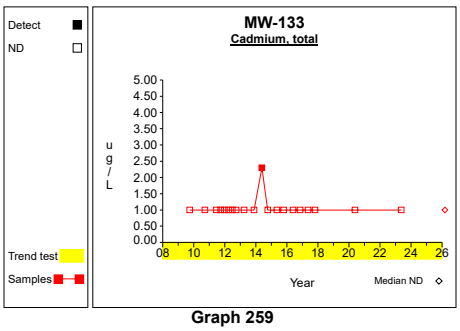
Graph 256



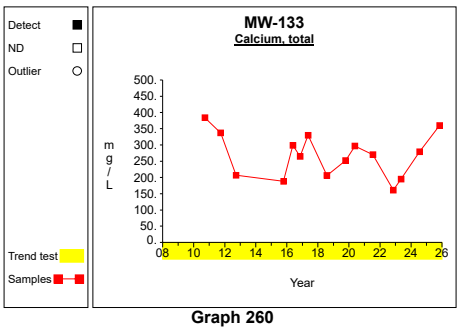
Graph 257



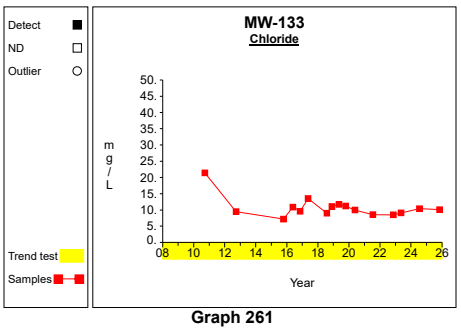
Graph 258



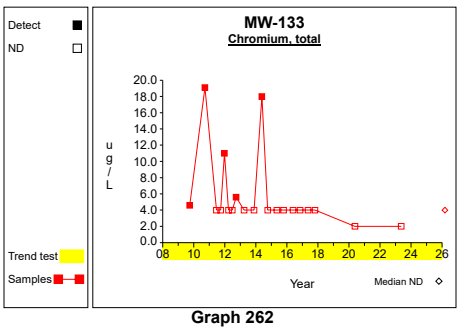
Graph 259



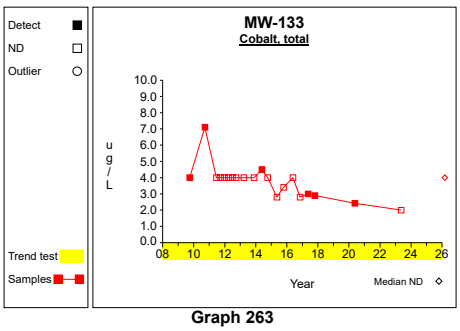
Graph 260



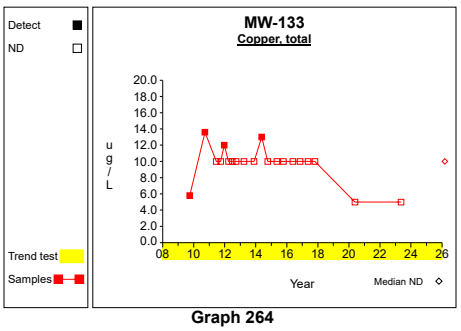
Graph 261



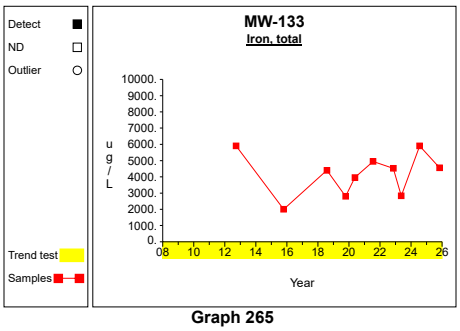
Graph 262



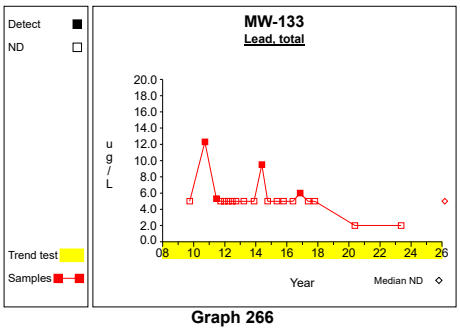
Graph 263



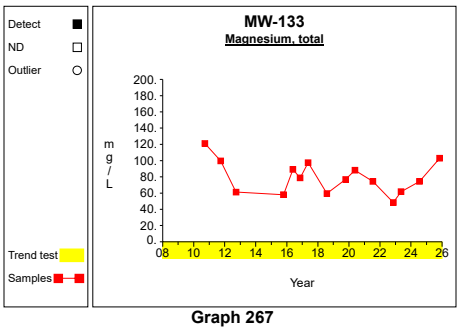
Graph 264



Graph 265



Graph 266



Graph 267

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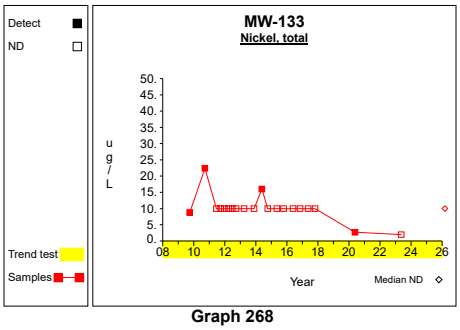
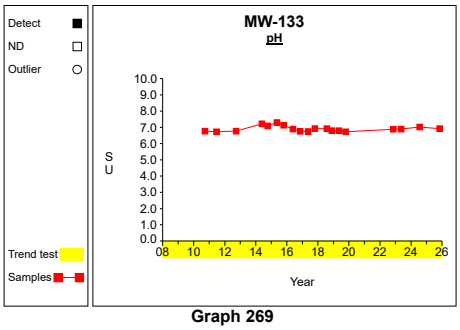
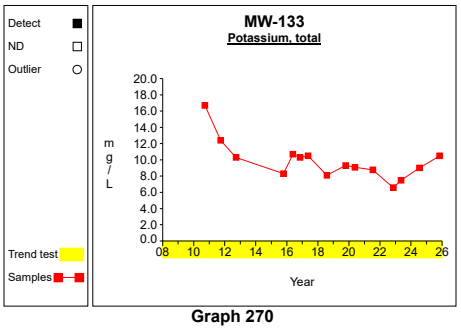
Time Series



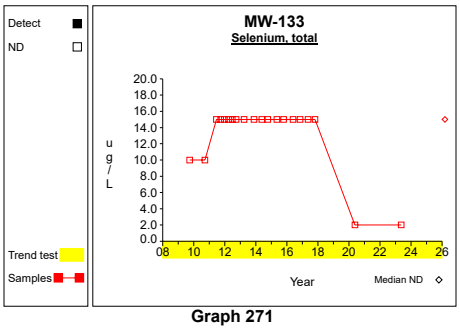
Graph 268



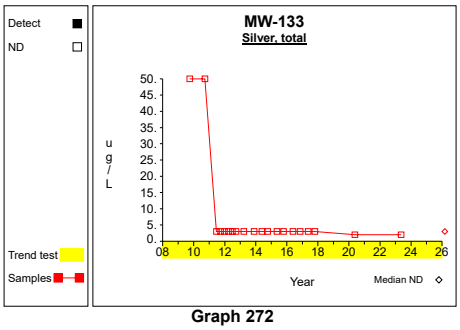
Graph 269



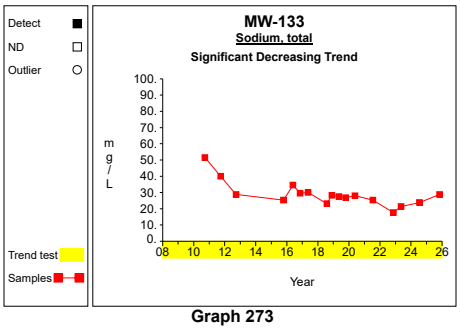
Graph 270



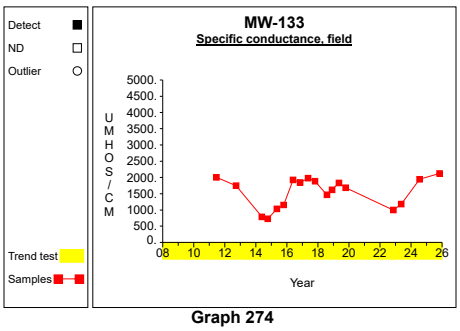
Graph 271



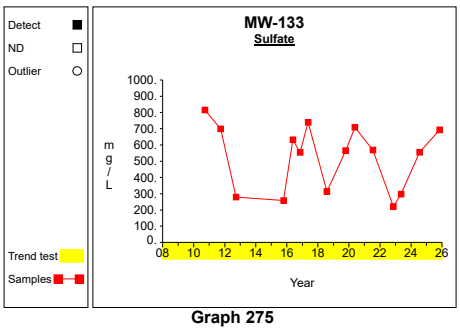
Graph 272



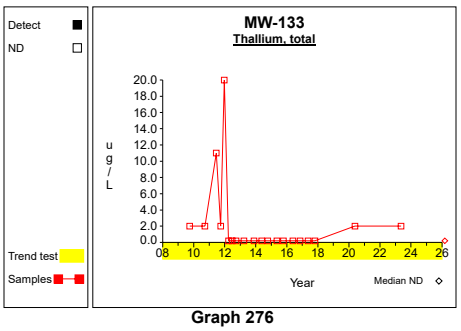
Graph 273



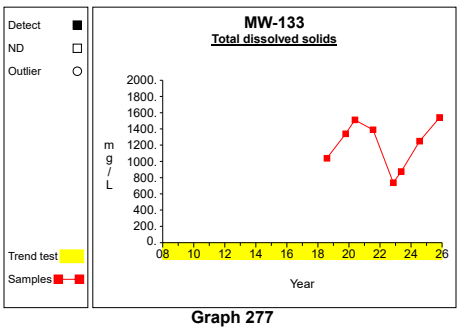
Graph 274



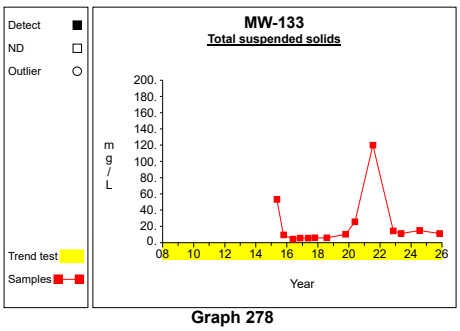
Graph 275



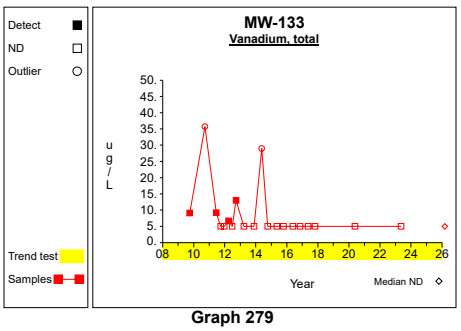
Graph 276



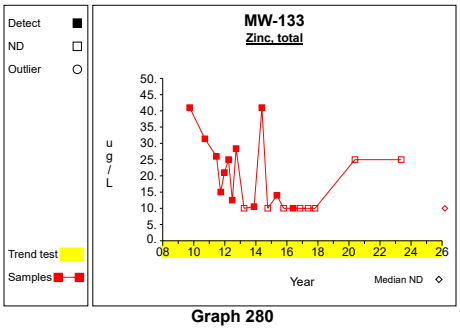
Graph 277



Graph 278

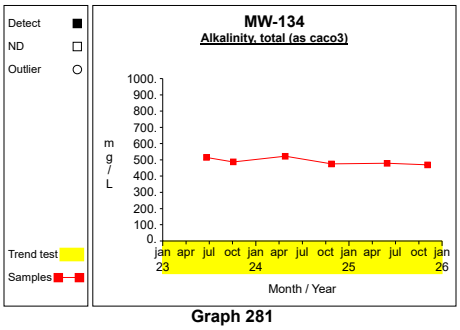


Graph 279

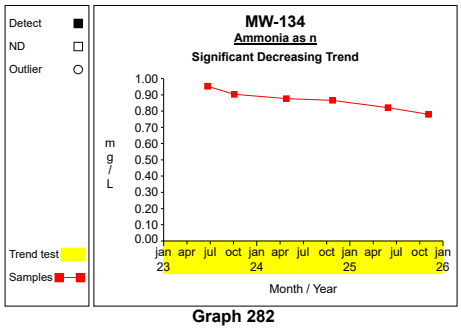


Graph 280

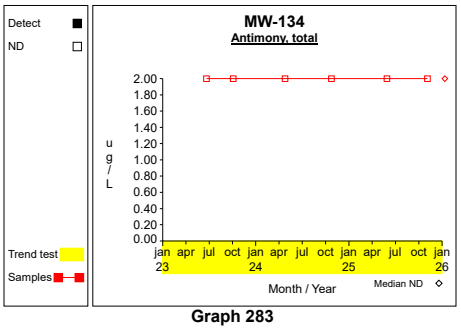
Time Series



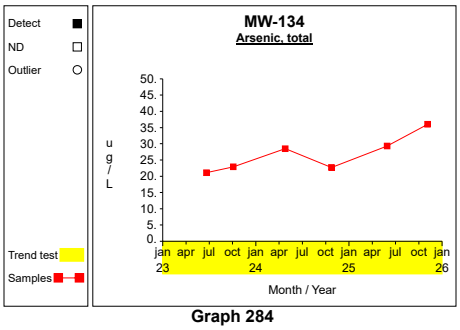
Graph 281



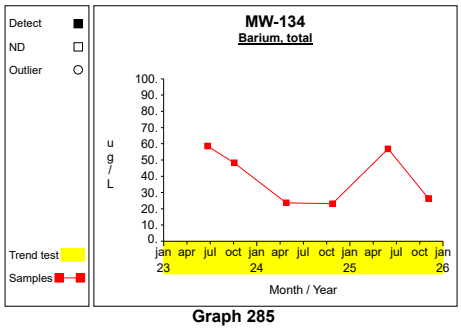
Graph 282



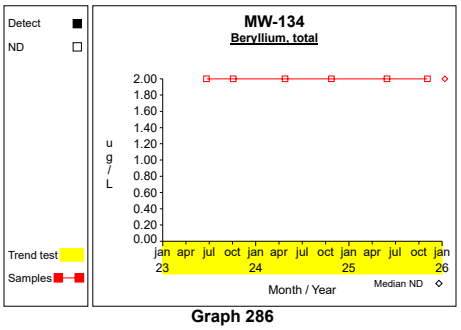
Graph 283



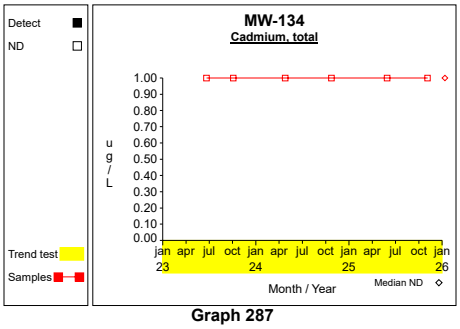
Graph 284



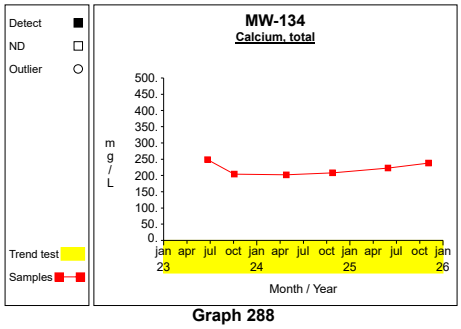
Graph 285



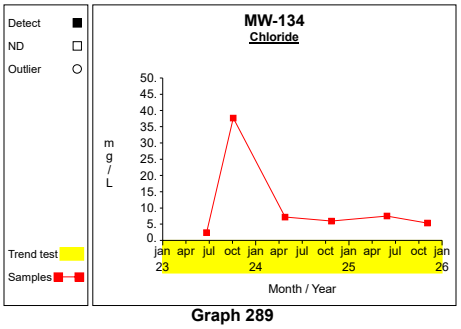
Graph 286



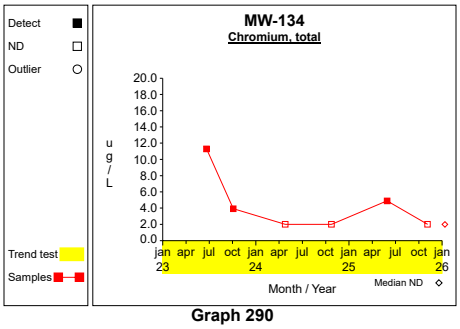
Graph 287



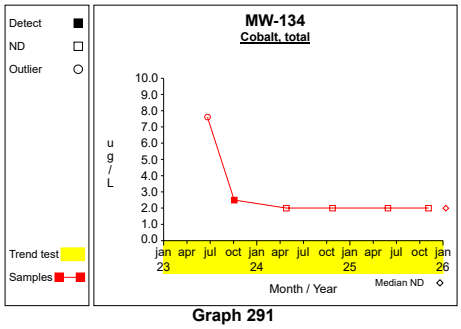
Graph 288



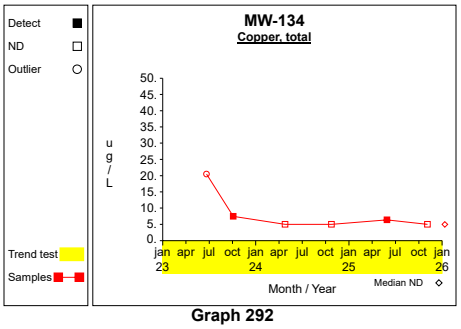
Graph 289



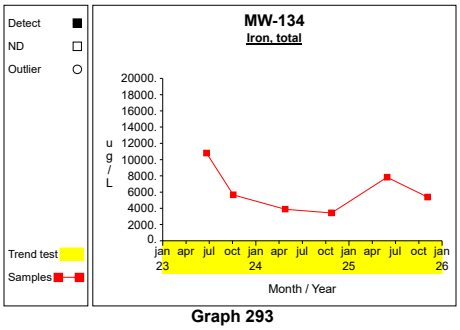
Graph 290



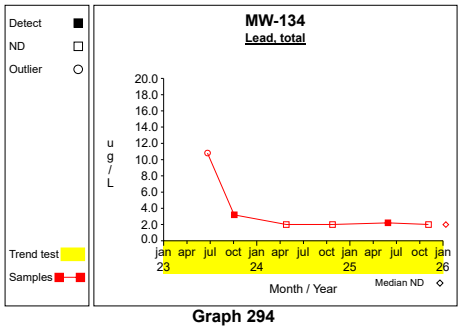
Graph 291



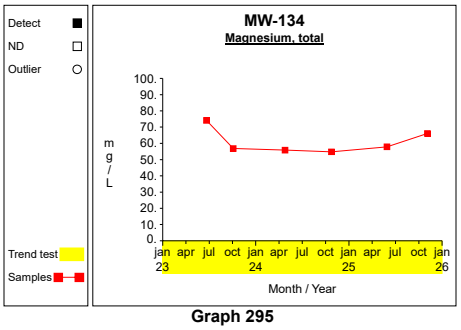
Graph 292



Graph 293



Graph 294



Graph 295

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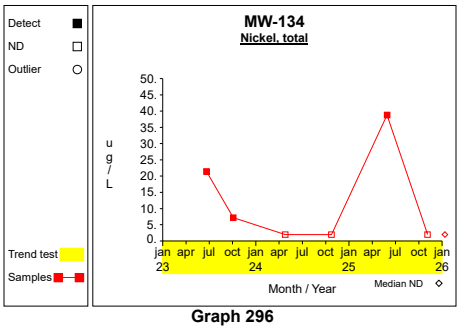
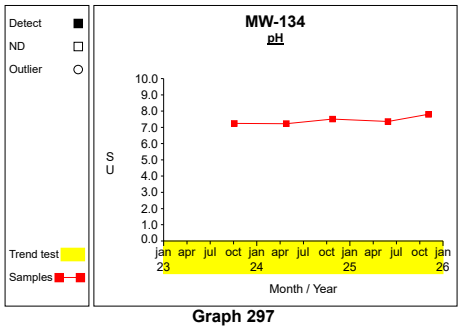
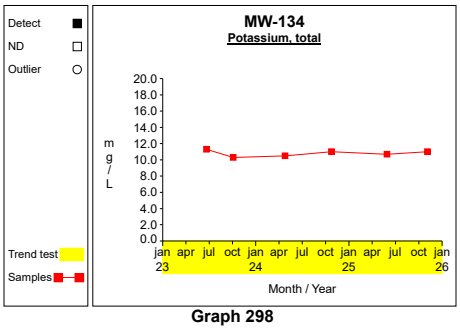


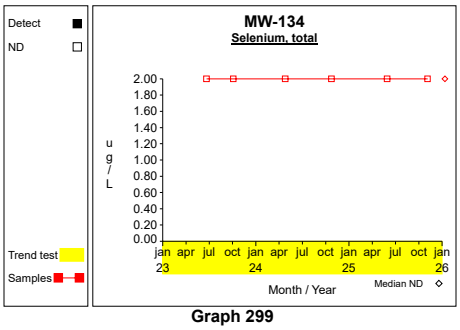
Graph 296



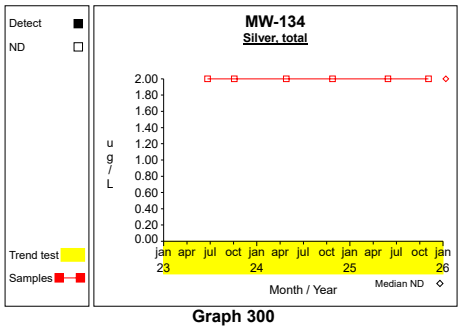
Graph 297



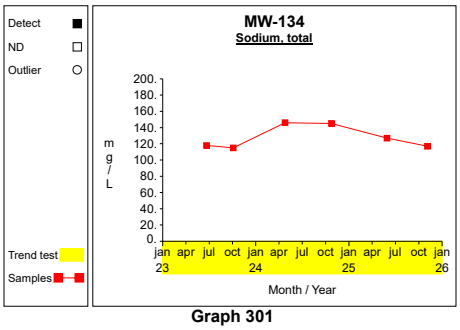
Graph 298



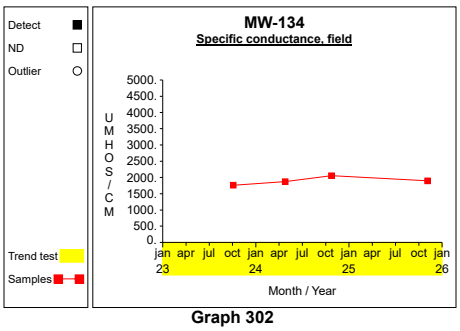
Graph 299



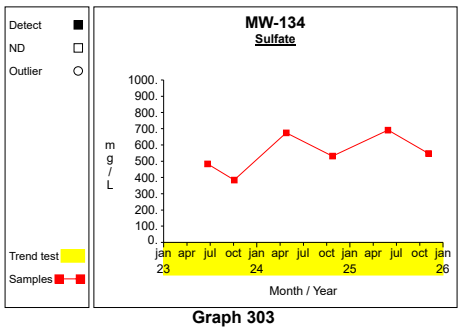
Graph 300



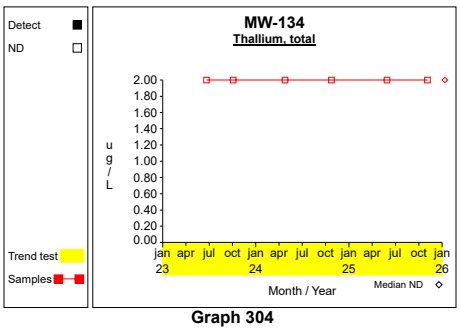
Graph 301



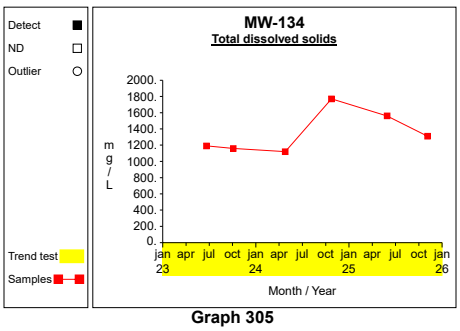
Graph 302



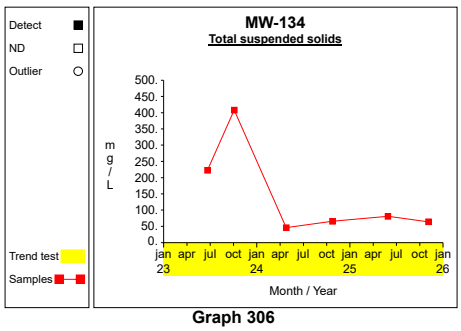
Graph 303



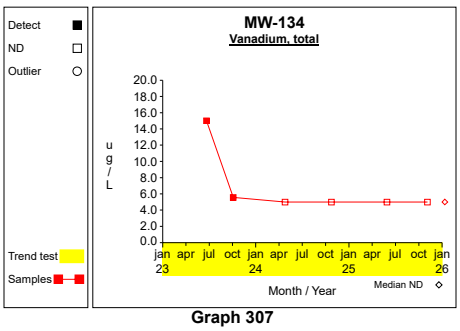
Graph 304



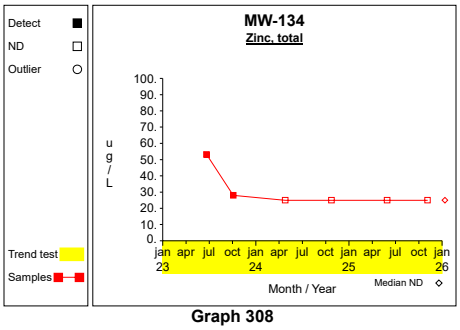
Graph 305



Graph 306



Graph 307



Graph 308

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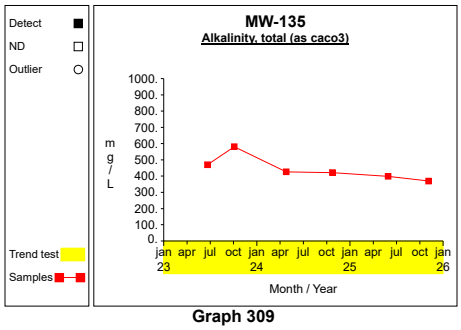
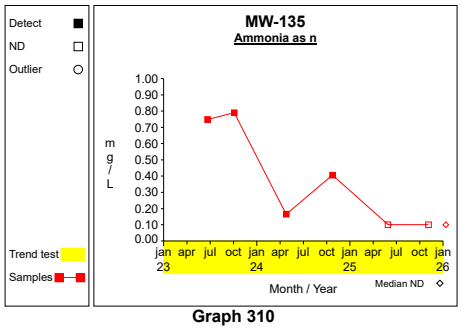
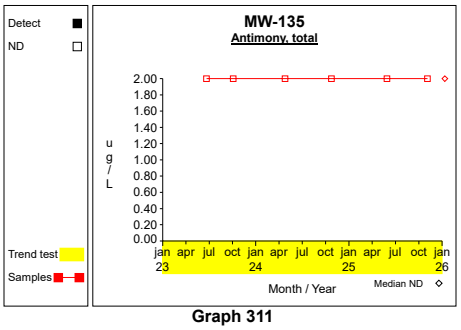


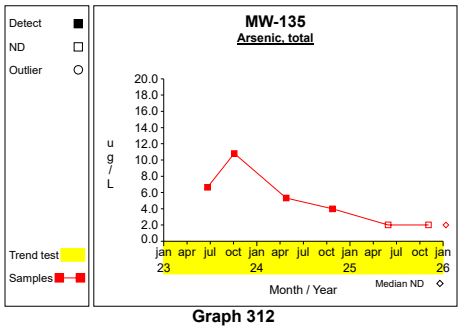
Graph 309



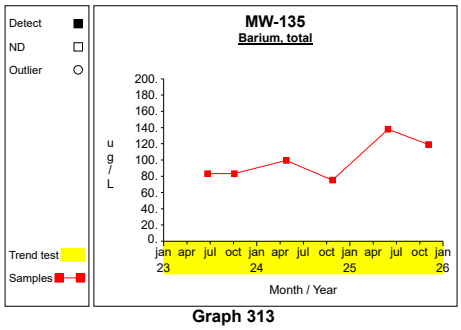
Graph 310



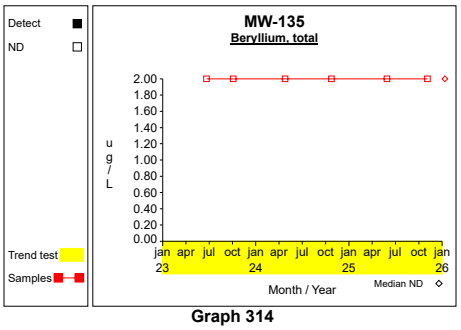
Graph 311



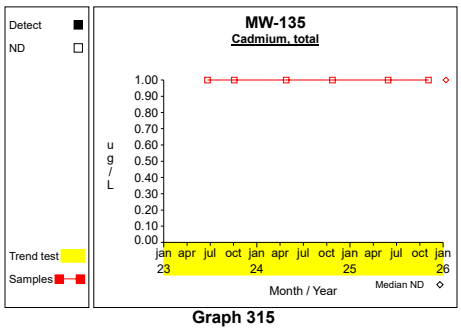
Graph 312



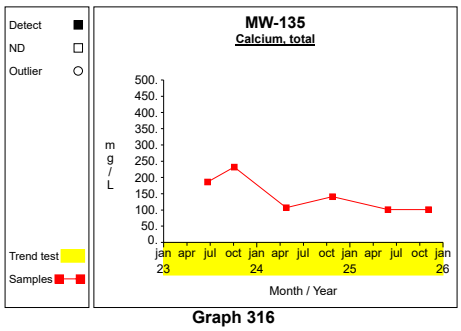
Graph 313



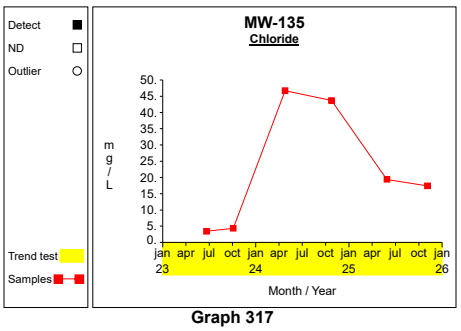
Graph 314



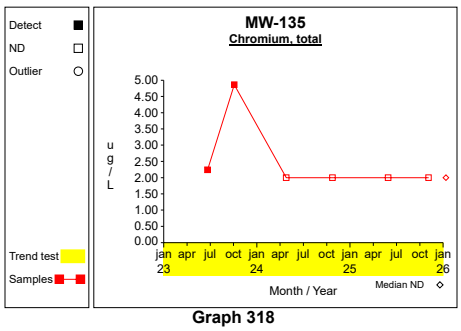
Graph 315



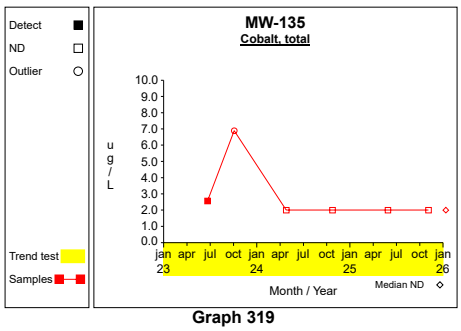
Graph 316



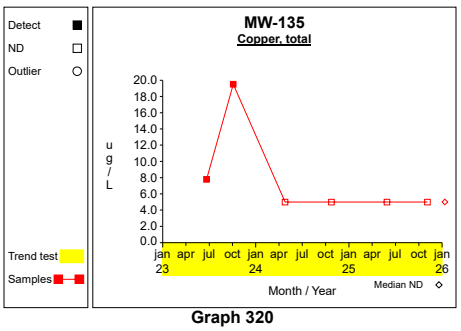
Graph 317



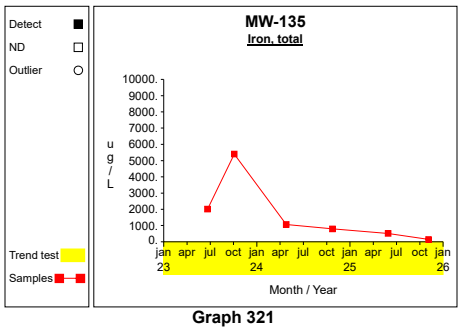
Graph 318



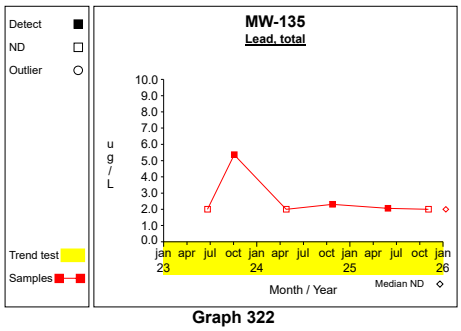
Graph 319



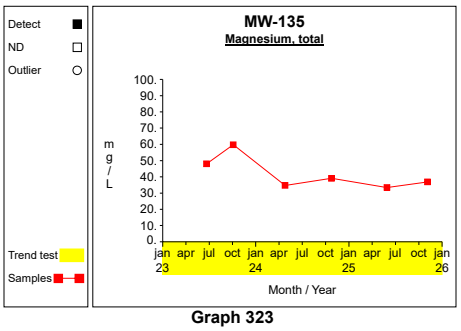
Graph 320



Graph 321



Graph 322



Graph 323

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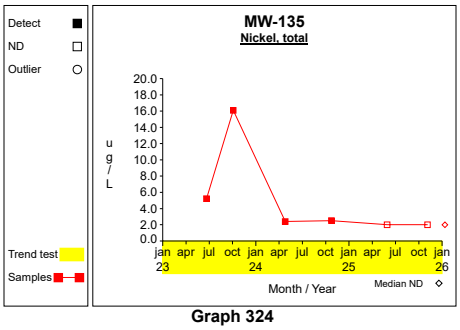
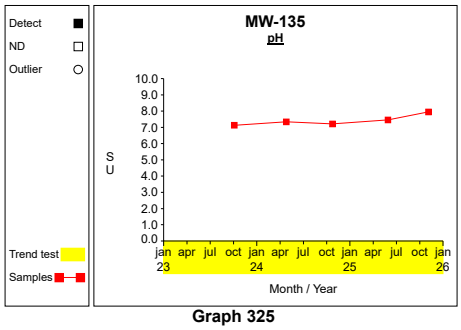
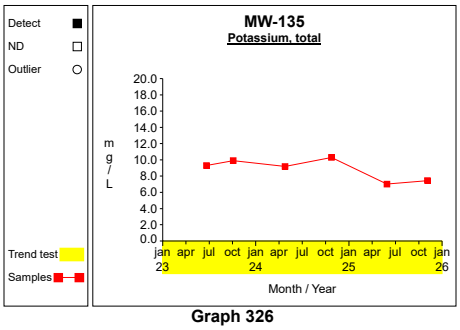


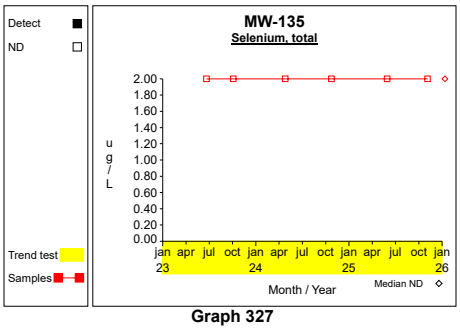
Graph 324



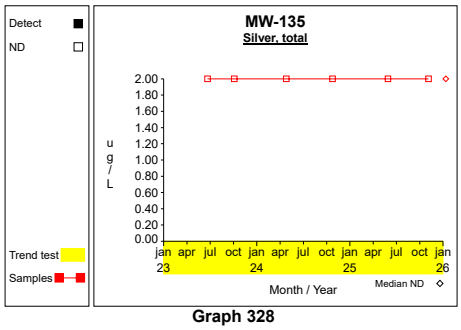
Graph 325



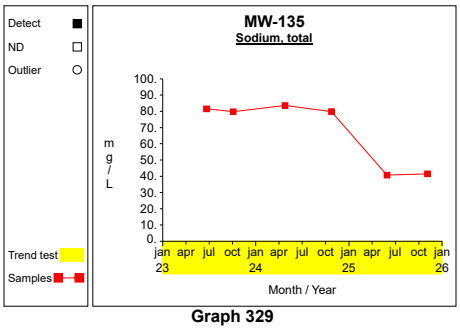
Graph 326



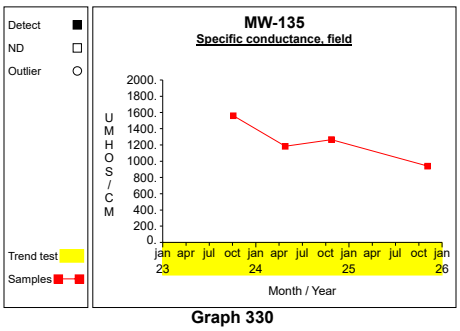
Graph 327



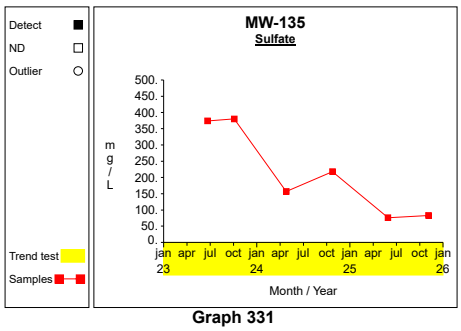
Graph 328



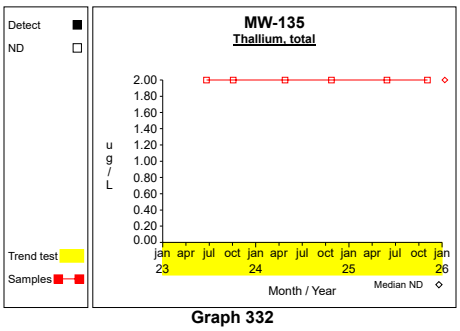
Graph 329



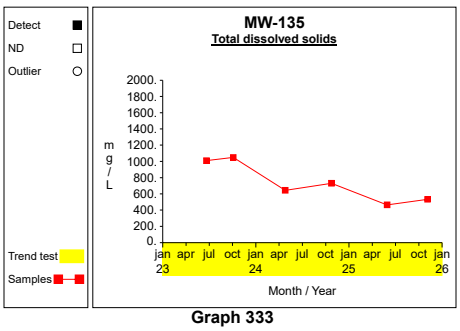
Graph 330



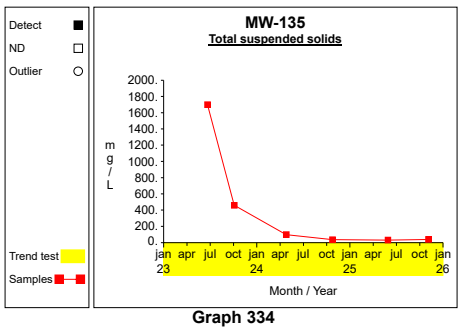
Graph 331



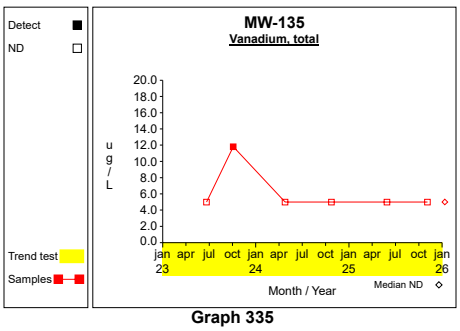
Graph 332



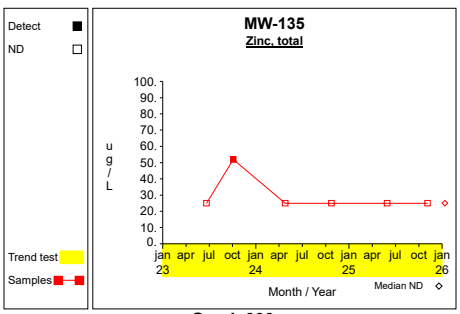
Graph 333



Graph 334



Graph 335



Graph 336

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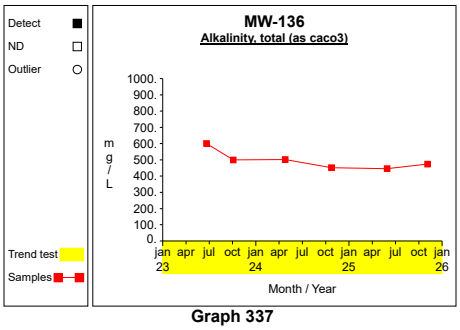
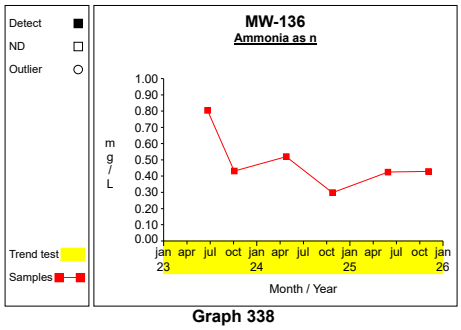
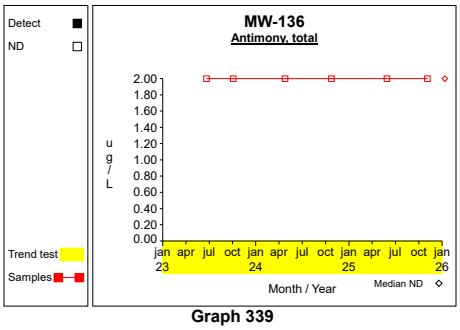
Time Series



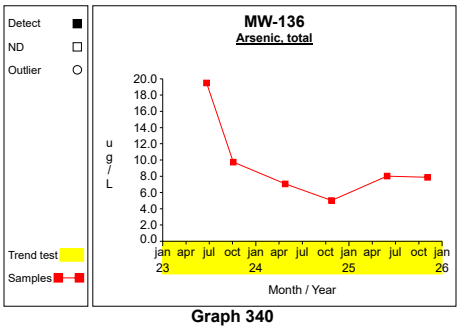
Graph 337



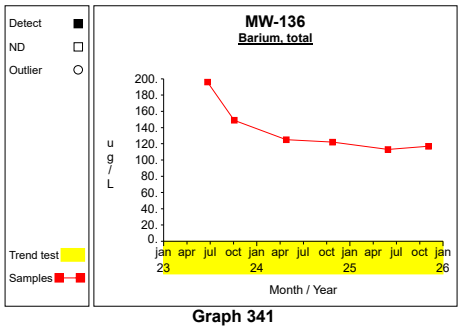
Graph 338



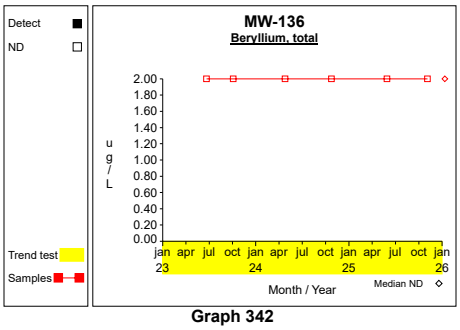
Graph 339



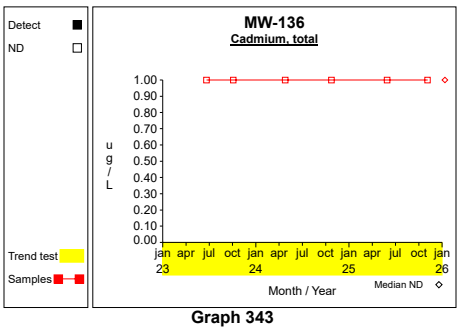
Graph 340



Graph 341



Graph 342



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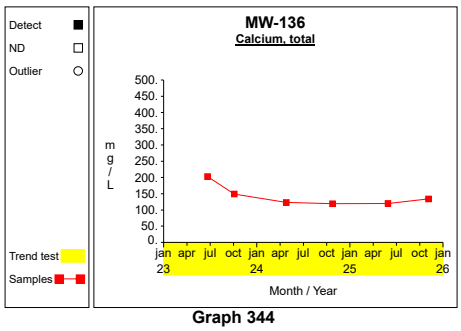

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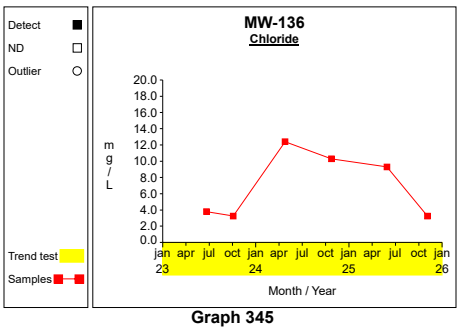

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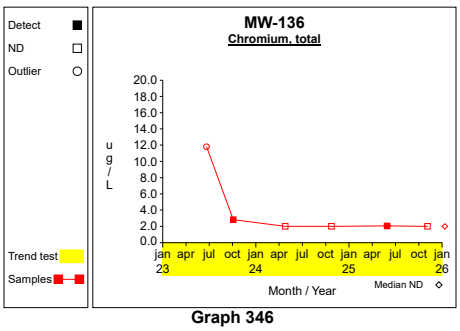

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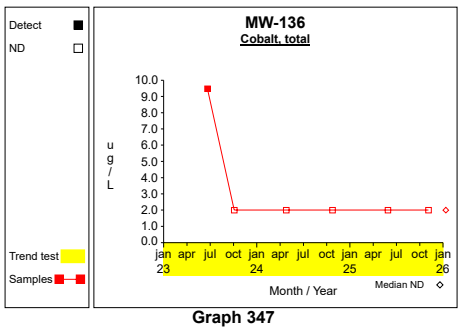

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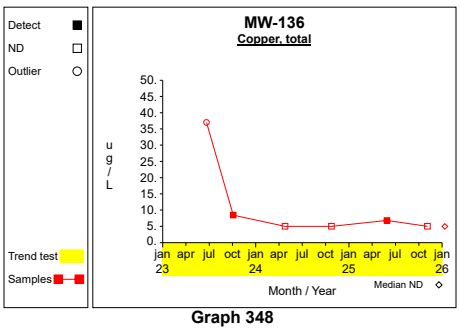

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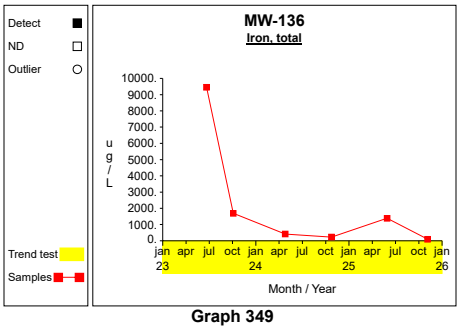

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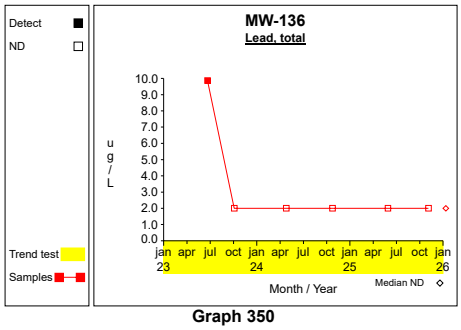

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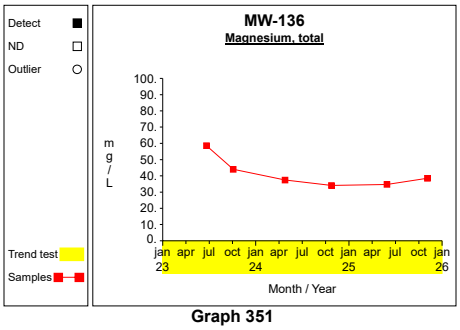

Graph 351

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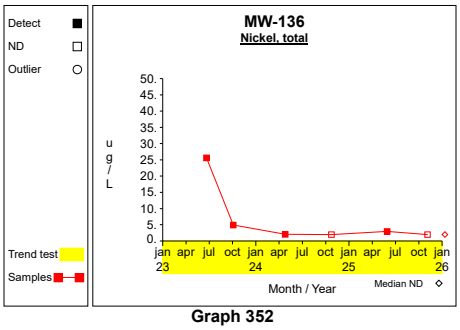
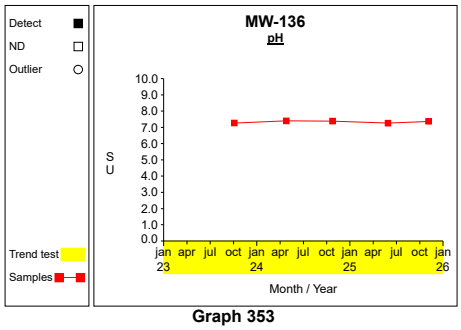
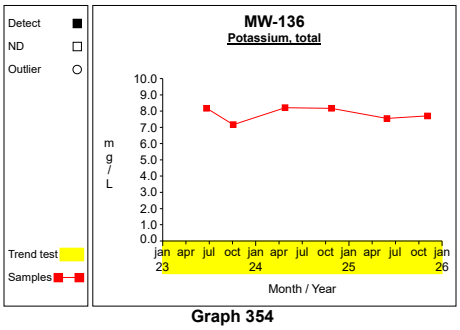


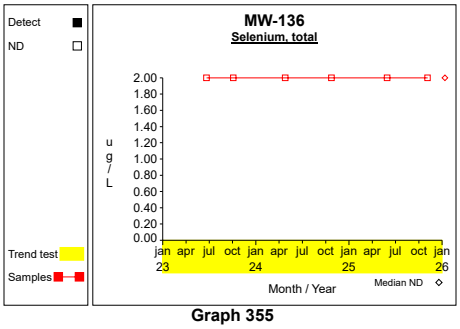
Graph 352



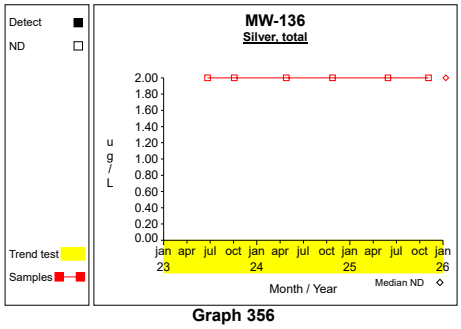
Graph 353



Graph 354



Graph 355



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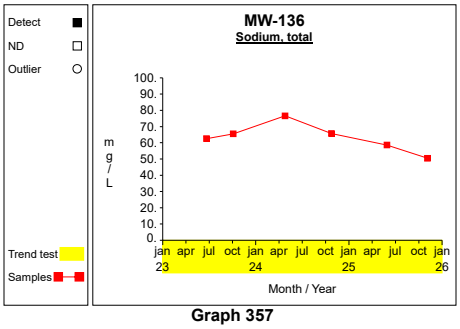

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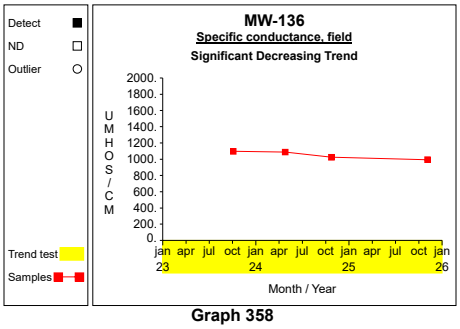
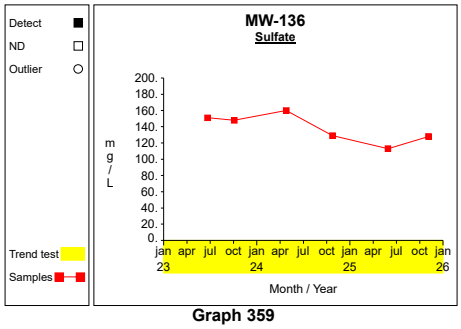


Graph 358



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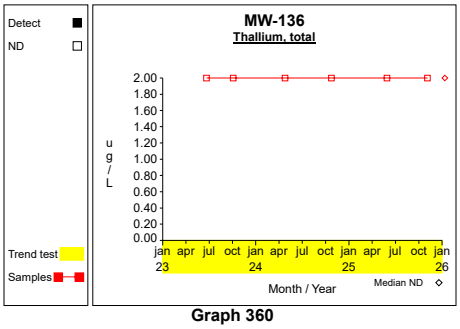
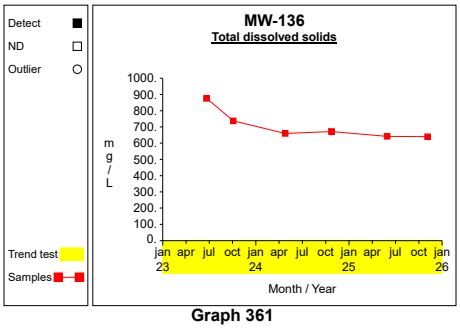
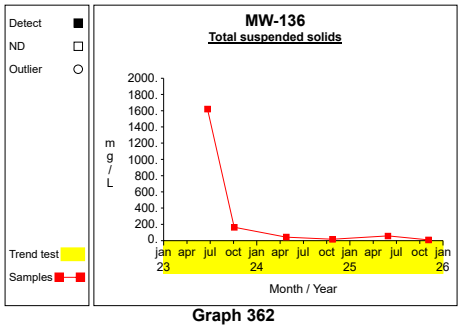


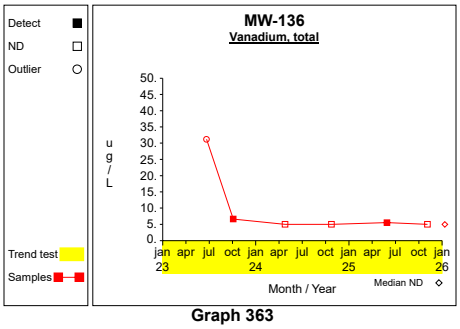
Graph 360



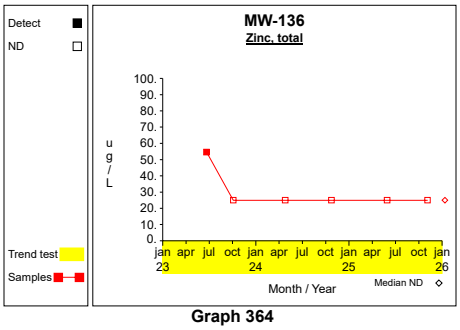
Graph 361



Graph 362



Graph 363



Graph 364

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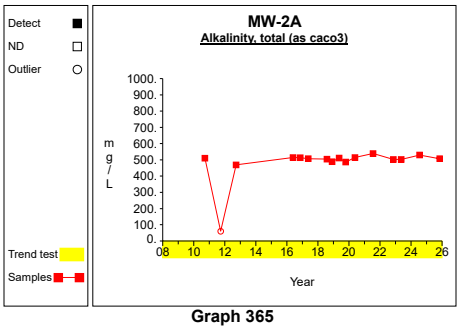
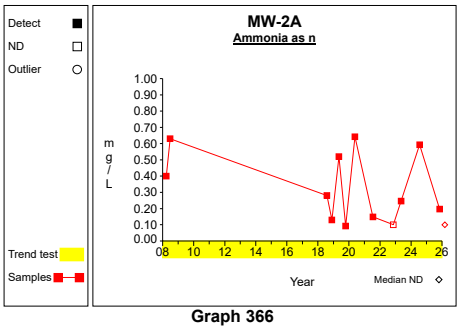
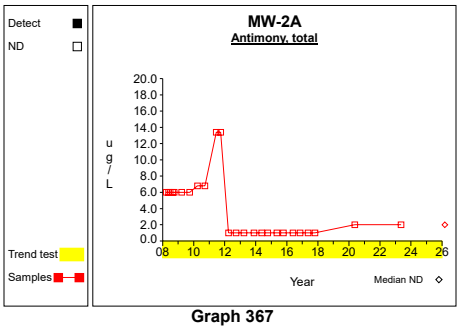


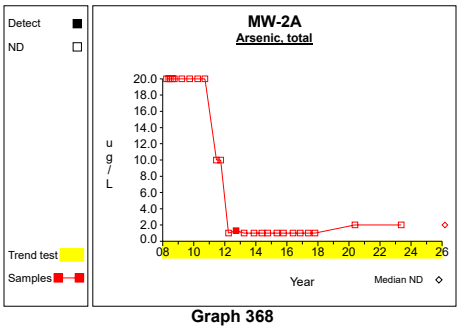
Graph 365



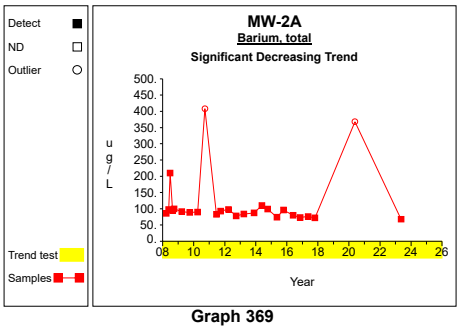
Graph 366



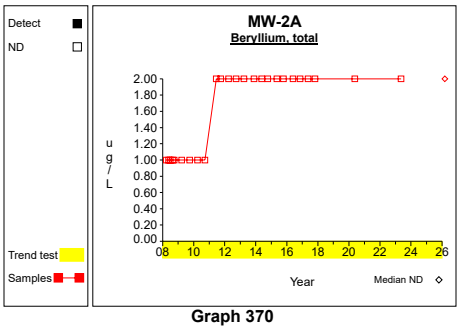
Graph 367



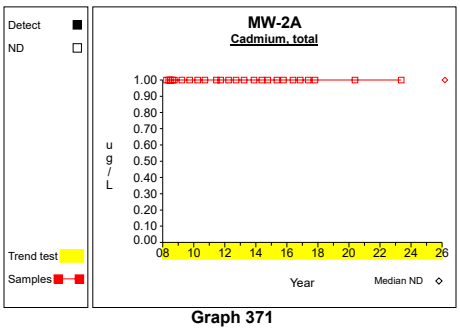
Graph 368



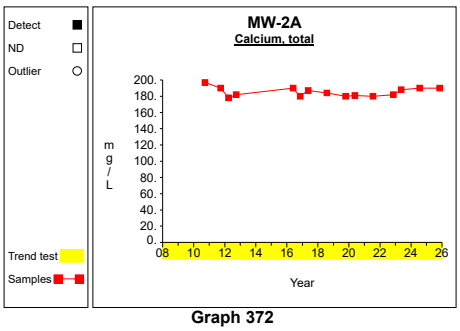
Graph 369



Graph 370



Graph 371



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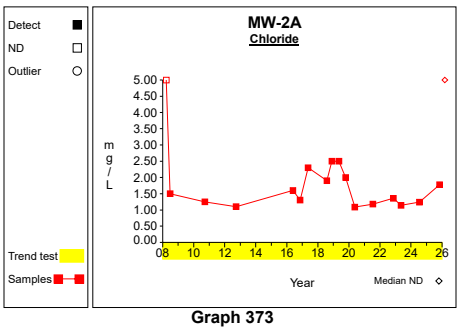
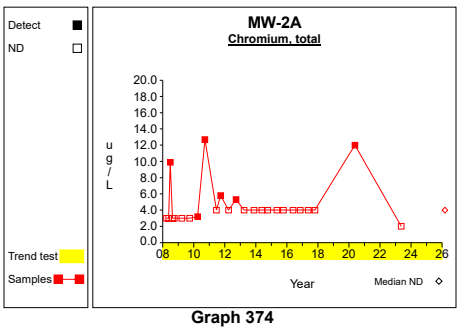
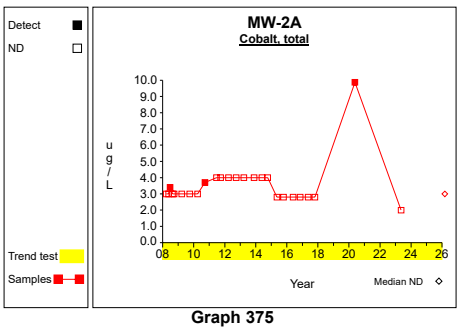


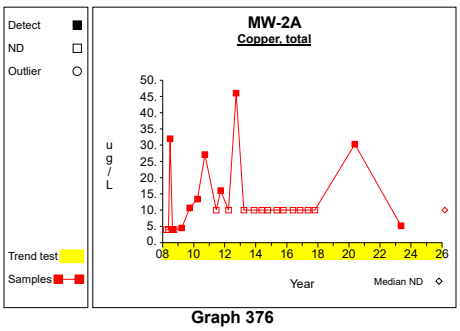
Graph 373



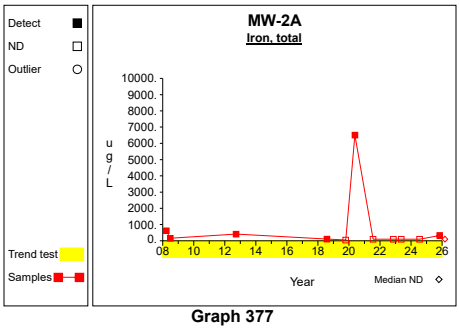
Graph 374



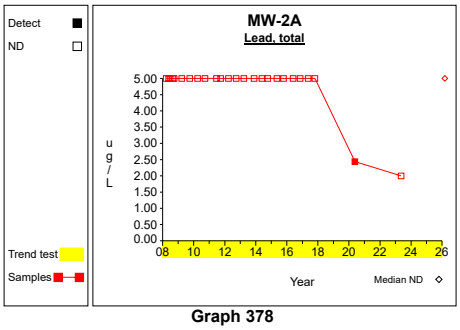
Graph 375



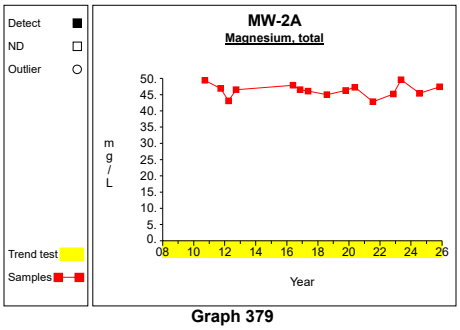
Graph 376



Graph 377



Graph 378



Graph 379

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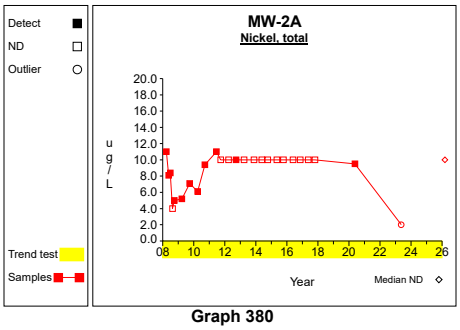
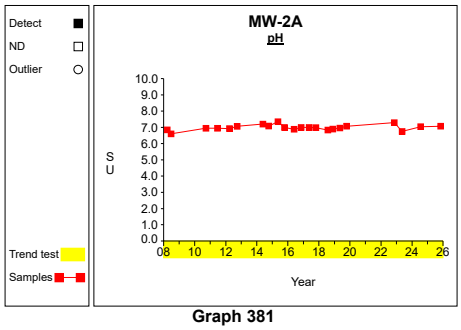
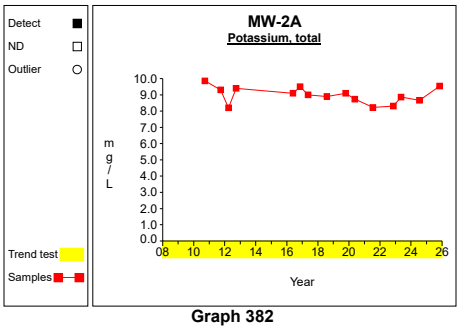


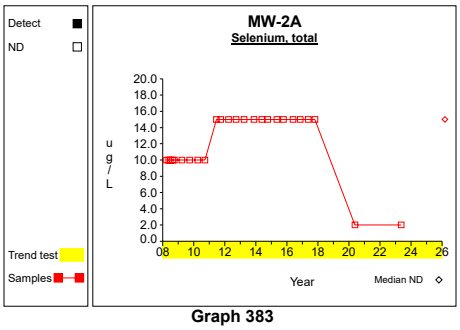
Graph 380



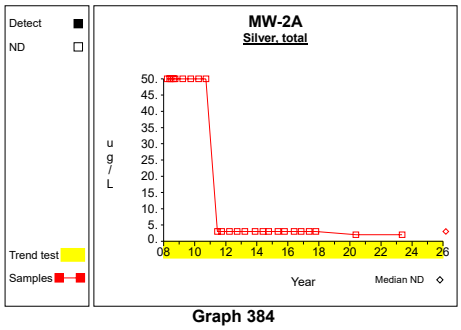
Graph 381



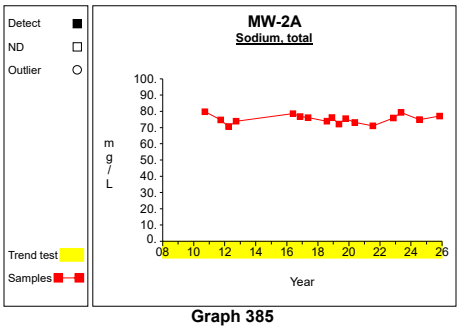
Graph 382



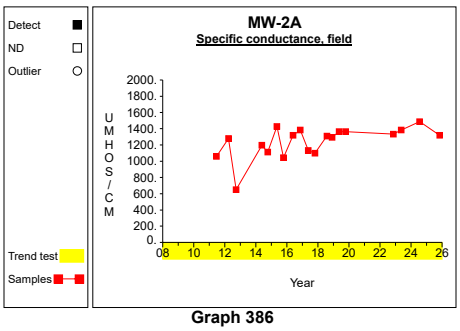
Graph 383



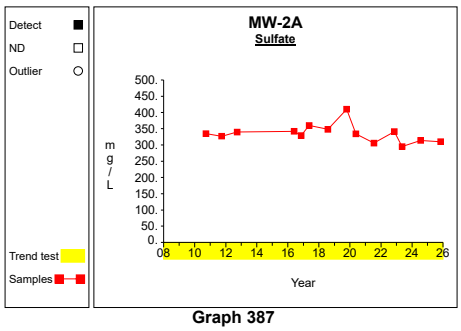
Graph 384



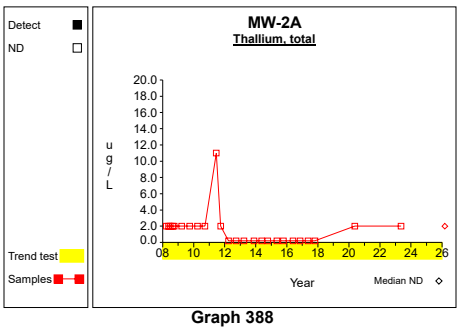
Graph 385



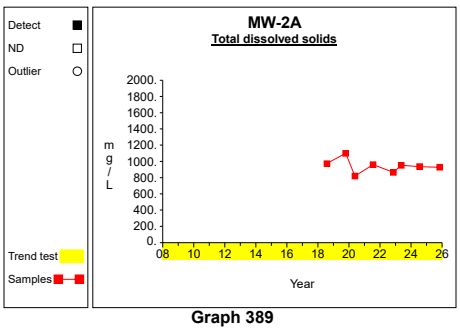
Graph 386



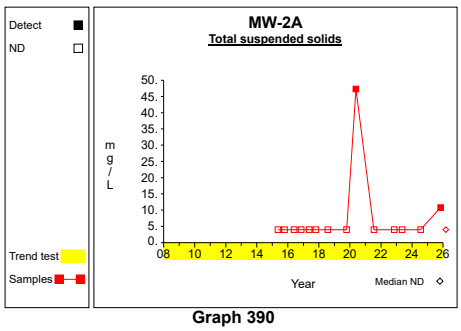
Graph 387



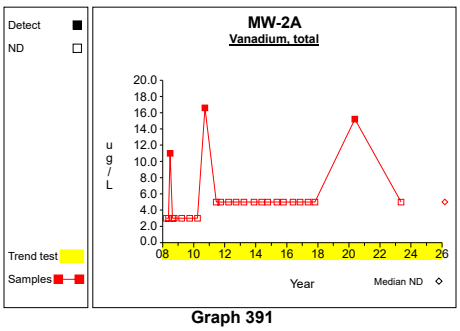
Graph 388



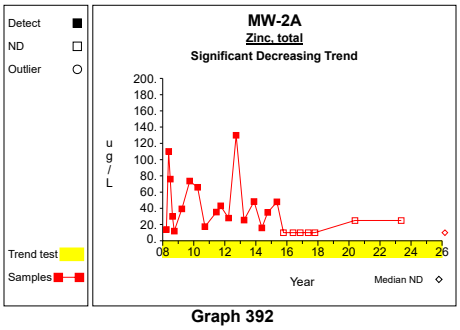
Graph 389



Graph 390



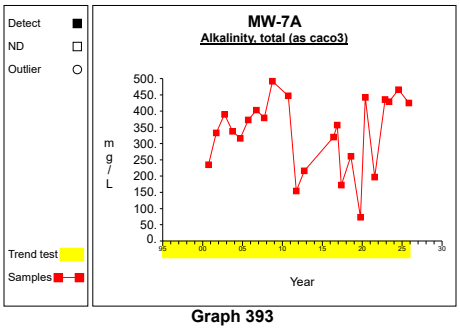
Graph 391



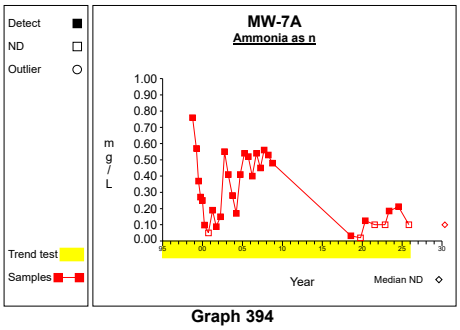
Graph 392

Prepared by: Otter Creek Environmental

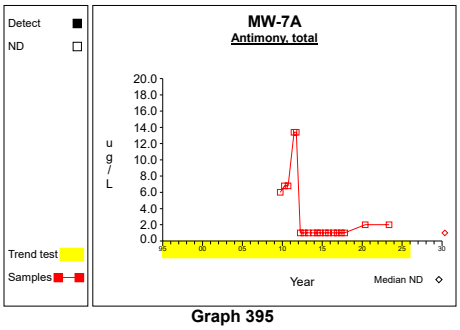
Time Series



Graph 393



Graph 394



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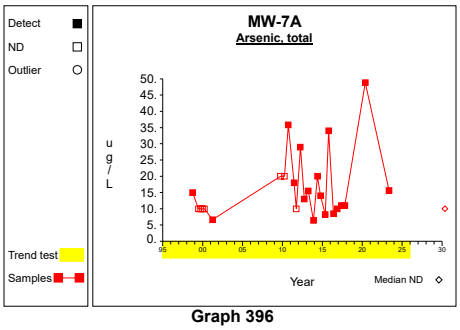

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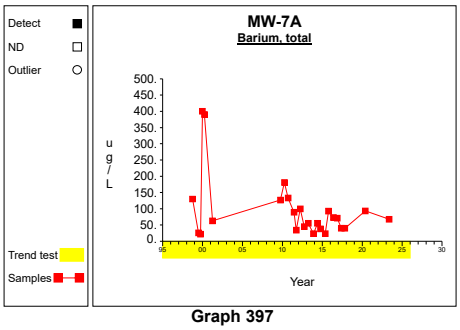

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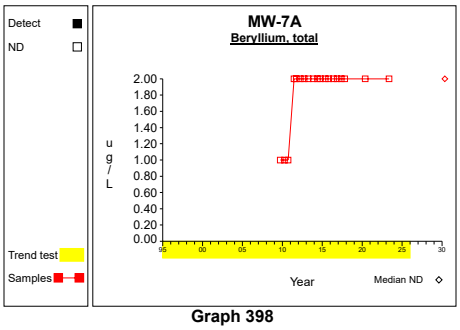

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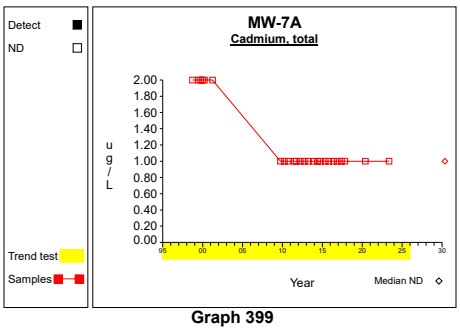

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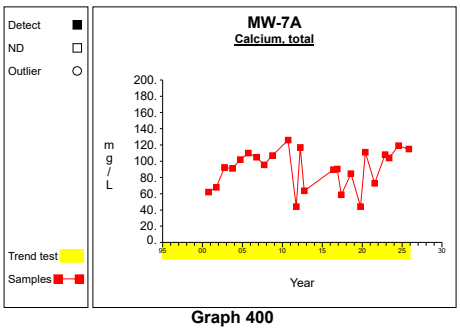

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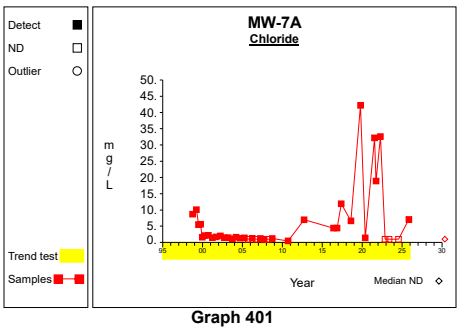

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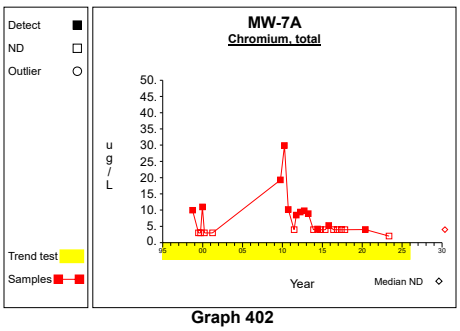

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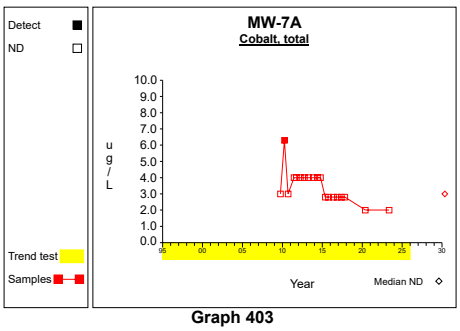
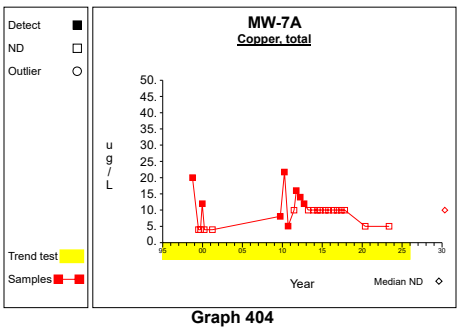
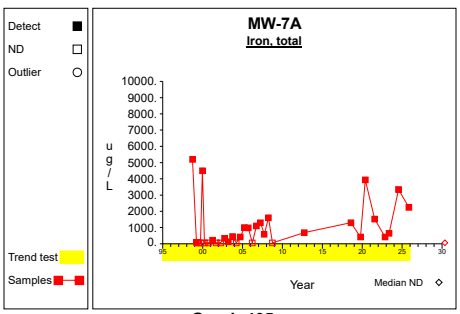


Graph 403



Graph 404



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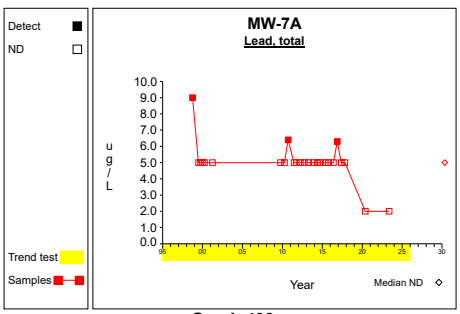

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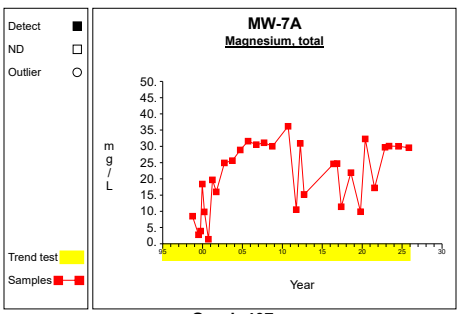
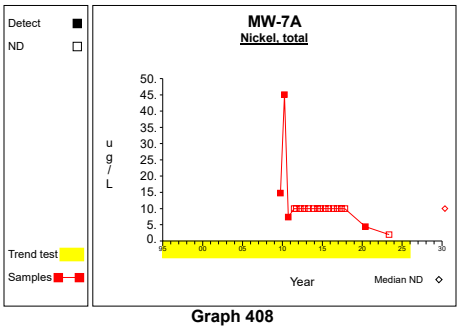


Graph 407

Prepared by: Otter Creek Environmental

Time Series



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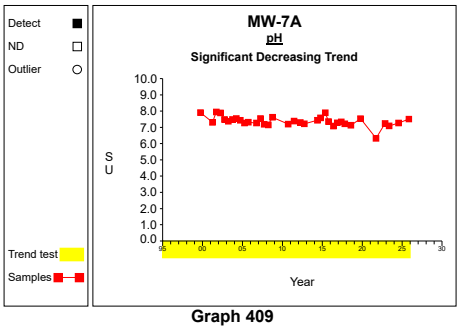

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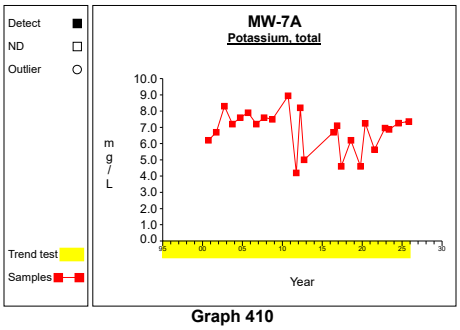

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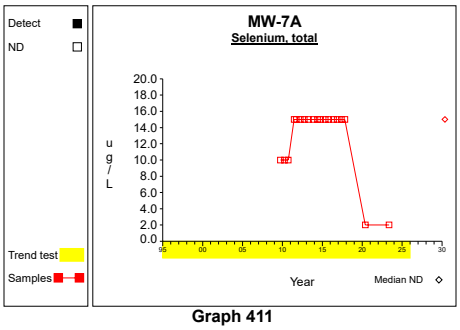

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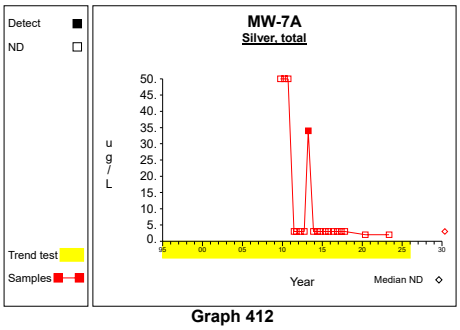

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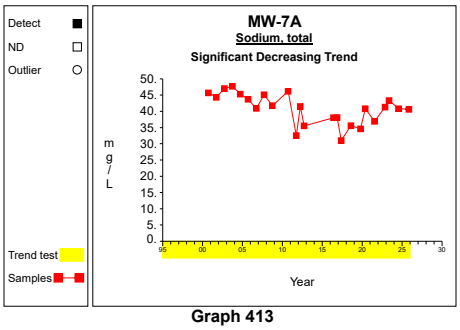

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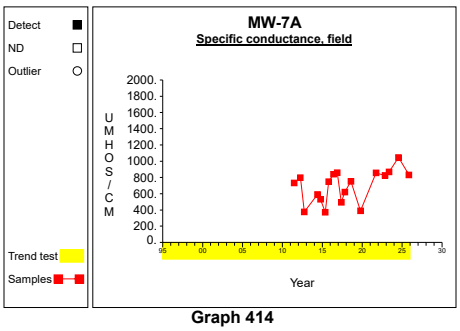

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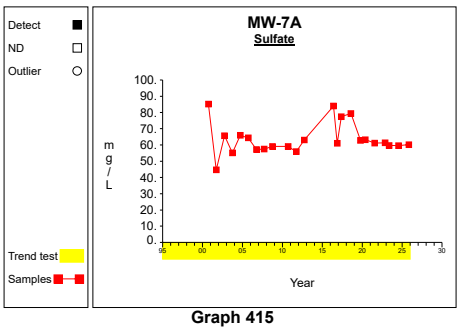

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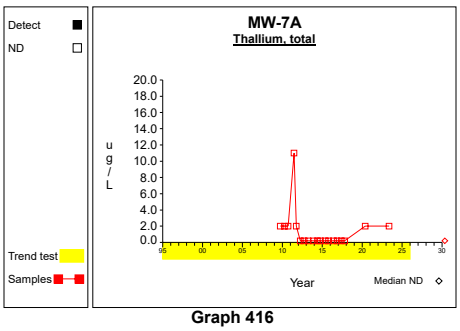

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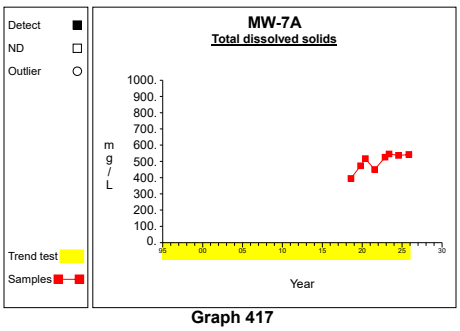

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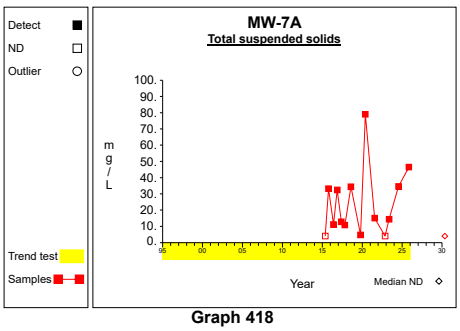

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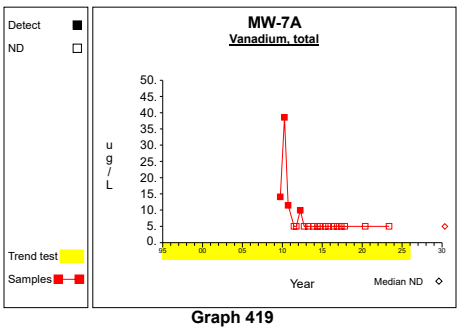
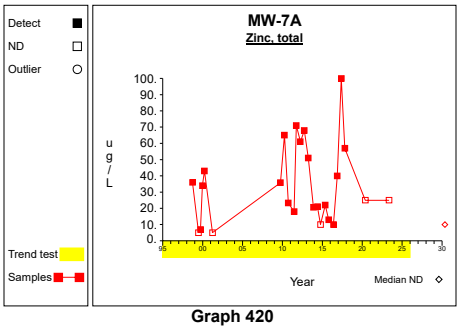


Graph 419



Graph 420

Appendix E 2025 Background Monitoring Events Analytical Reports (Pace National)

ANALYTICAL REPORT

June 16, 2025

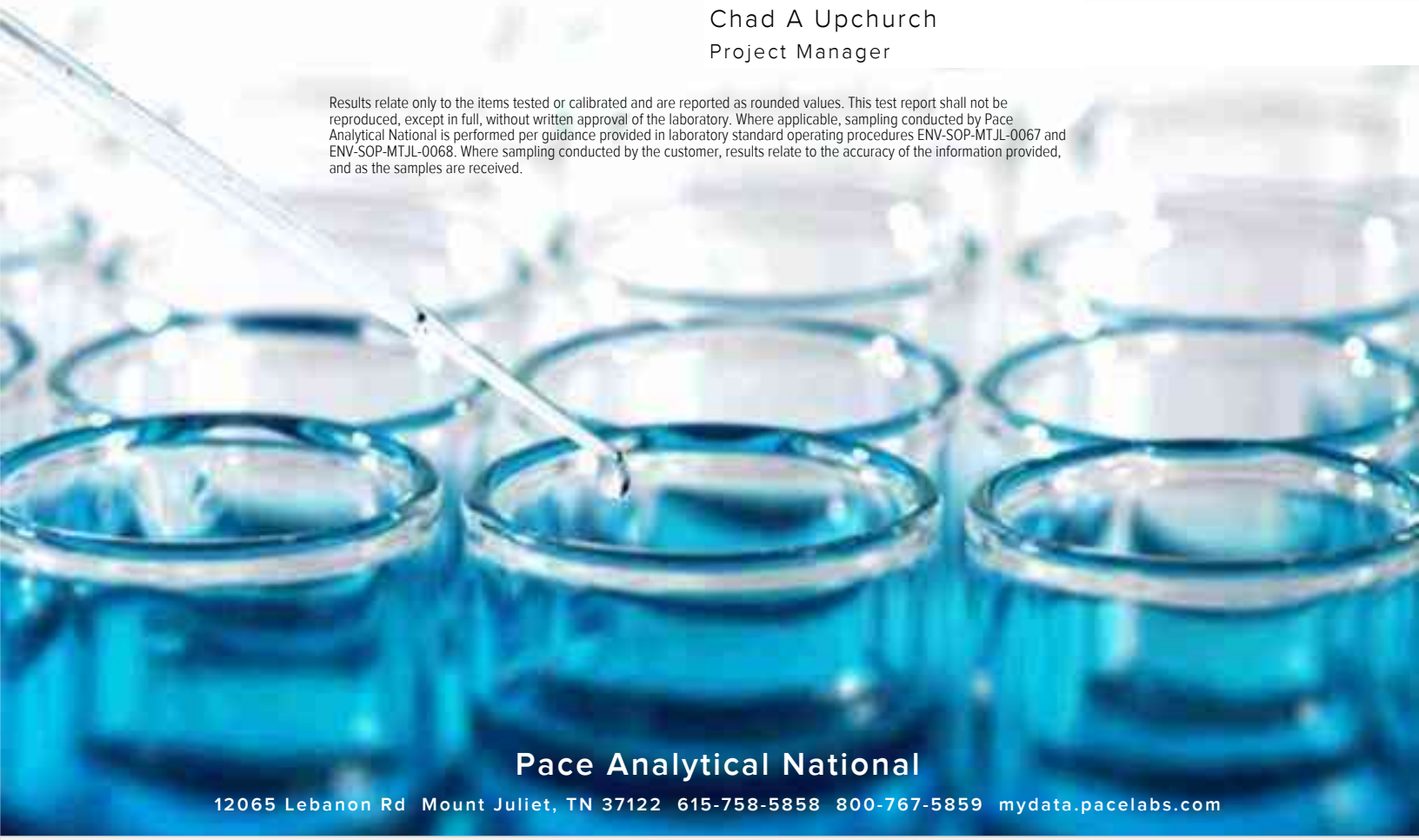
Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1864591
Samples Received:	05/30/2025
Project Number:	200
Description:	Central Disposal Systems, Inc. Landfill
Site:	IA02
Report To:	Aaron Rebmann 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-134 L1864591-01

Collected by: Mike H. | Collected date/time: 05/29/25 12:00 | Received date/time: 05/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2531227	1	06/05/25 12:10	06/05/25 13:35	JAC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2527928	1	05/31/25 15:47	06/01/25 23:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2528268	1	06/01/25 13:49	06/01/25 13:49	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2530186	1	06/04/25 15:36	06/04/25 15:36	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2527719	5	06/04/25 05:29	06/04/25 05:29	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2527719	50	06/04/25 05:45	06/04/25 05:45	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2529741	1	06/06/25 09:47	06/14/25 00:30	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2528328	1	06/01/25 21:12	06/01/25 21:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2528576	1	06/05/25 16:32	06/05/25 16:32	BRA	Mt. Juliet, TN

MW-135 L1864591-02

Collected by: Mike H. | Collected date/time: 05/29/25 11:30 | Received date/time: 05/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2530327	1	06/04/25 14:35	06/05/25 13:40	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2527928	1	05/31/25 15:47	06/01/25 23:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2528621	1	06/02/25 15:43	06/02/25 15:43	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2530186	1	06/04/25 15:38	06/04/25 15:38	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2527719	1	06/04/25 06:01	06/04/25 06:01	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2529741	1	06/06/25 09:47	06/14/25 00:33	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2528328	1	06/01/25 21:32	06/01/25 21:32	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2528576	1	06/05/25 16:54	06/05/25 16:54	BRA	Mt. Juliet, TN

MW-136 L1864591-03

Collected by: Mike H. | Collected date/time: 05/29/25 10:30 | Received date/time: 05/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2530327	1	06/04/25 14:35	06/05/25 13:40	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2527928	1	05/31/25 15:47	06/01/25 23:28	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2528621	1	06/02/25 15:47	06/02/25 15:47	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2530186	1	06/04/25 15:39	06/04/25 15:39	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2527719	1	06/04/25 07:23	06/04/25 07:23	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2527719	5	06/05/25 12:16	06/05/25 12:16	ZSA	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2529741	1	06/06/25 09:47	06/14/25 00:36	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2528328	1	06/01/25 21:52	06/01/25 21:52	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2528576	1	06/05/25 17:16	06/05/25 17:16	BRA	Mt. Juliet, TN

Trip Blank L1864591-04

Collected by: Mike H. | Collected date/time: 05/29/25 00:00 | Received date/time: 05/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2528328	1	06/01/25 16:34	06/01/25 16:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2528576	1	06/05/25 15:49	06/05/25 15:49	BRA	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Wet Chemistry by Method 9056A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2527719	(MS) R4225212-7, L1864591-02	Sulfate

Metals (ICPMS) by Method 6020

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2529741	(MS) R4230250-4, (MSD) R4230250-5	Calcium

Volatile Organic Compounds (GC/MS) by Method 8260B

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2528328	L1864591-01	Chloroethane and Vinyl chloride
WG2528328	L1864591-02	Chloroethane and Vinyl chloride
WG2528328	L1864591-03	Chloroethane and Vinyl chloride
WG2528328	L1864591-04	Chloroethane and Vinyl chloride

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2528576	(LCS) R4226423-1, L1864591-01, 02, 03, 04	1,2-Dibromo-3-Chloropropane

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth To Water (onsite)	31.7	su
pH (On Site)	7.36	su
Specific Conductance (on site)	1915	umhos/cm
Temperature (on-site)	12.3	Deg. C
Turbidity (on-site)	50	NTU

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1560		10.0	1	06/05/2025 13:35	WG2531227

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	80.8		4.00	1	06/01/2025 23:28	WG2527928

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	479		20.0	1	06/01/2025 13:49	WG2528268

Sample Narrative:

L1864591-01 WG2528268: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.821		0.100	1	06/04/2025 15:36	WG2530186

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	7.51		1.00	5	06/04/2025 05:29	WG2527719
Sulfate	691		5.00	50	06/04/2025 05:45	WG2527719

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.00200	1	06/14/2025 00:30	WG2529741
Arsenic	0.0293		0.00200	1	06/14/2025 00:30	WG2529741
Barium	0.0569		0.00500	1	06/14/2025 00:30	WG2529741
Beryllium	ND		0.00200	1	06/14/2025 00:30	WG2529741
Calcium	223		1.00	1	06/14/2025 00:30	WG2529741
Cadmium	ND		0.00100	1	06/14/2025 00:30	WG2529741
Cobalt	ND		0.00200	1	06/14/2025 00:30	WG2529741
Chromium	0.00489		0.00200	1	06/14/2025 00:30	WG2529741
Copper	0.00640		0.00500	1	06/14/2025 00:30	WG2529741
Iron	7.83		0.100	1	06/14/2025 00:30	WG2529741
Potassium	10.7		1.00	1	06/14/2025 00:30	WG2529741
Magnesium	57.9		1.00	1	06/14/2025 00:30	WG2529741
Sodium	127		1.00	1	06/14/2025 00:30	WG2529741
Nickel	0.0388		0.00200	1	06/14/2025 00:30	WG2529741
Lead	0.00221		0.00200	1	06/14/2025 00:30	WG2529741

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00200	1	06/14/2025 00:30	WG2529741
Selenium	ND		0.00200	1	06/14/2025 00:30	WG2529741
Thallium	ND		0.00200	1	06/14/2025 00:30	WG2529741
Vanadium	ND		0.00500	1	06/14/2025 00:30	WG2529741
Zinc	ND		0.0250	1	06/14/2025 00:30	WG2529741

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/01/2025 21:12	WG2528328
1,2,3-Trichloropropane	ND		0.00580	1	06/05/2025 16:32	WG2528576
1,1,1-Trichloroethane	ND		1.00	1	06/01/2025 21:12	WG2528328
1,2-Dibromo-3-Chloropropane	ND	J4	0.200	1	06/05/2025 16:32	WG2528576
1,1,2,2-Tetrachloroethane	ND		0.300	1	06/01/2025 21:12	WG2528328
1,2-Dibromoethane	ND		0.0500	1	06/05/2025 16:32	WG2528576
1,1,2-Trichloroethane	ND		1.00	1	06/01/2025 21:12	WG2528328
1,1-Dichloroethane	ND		1.00	1	06/01/2025 21:12	WG2528328
1,1-Dichloroethene	ND		1.00	1	06/01/2025 21:12	WG2528328
1,2-Dichlorobenzene	ND		1.00	1	06/01/2025 21:12	WG2528328
1,2-Dichloroethane	ND		1.00	1	06/01/2025 21:12	WG2528328
1,2-Dichloropropane	ND		1.00	1	06/01/2025 21:12	WG2528328
1,4-Dichlorobenzene	ND		1.00	1	06/01/2025 21:12	WG2528328
2-Butanone (MEK)	ND		10.0	1	06/01/2025 21:12	WG2528328
2-Hexanone	ND		5.00	1	06/01/2025 21:12	WG2528328
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	06/01/2025 21:12	WG2528328
Acetone	ND		25.0	1	06/01/2025 21:12	WG2528328
Acrylonitrile	ND		0.320	1	06/01/2025 21:12	WG2528328
Benzene	ND		1.00	1	06/01/2025 21:12	WG2528328
Bromochloromethane	ND		1.00	1	06/01/2025 21:12	WG2528328
Bromodichloromethane	ND		1.00	1	06/01/2025 21:12	WG2528328
Bromoform	ND		1.00	1	06/01/2025 21:12	WG2528328
Bromomethane	ND		2.50	1	06/01/2025 21:12	WG2528328
Carbon disulfide	ND		1.00	1	06/01/2025 21:12	WG2528328
Carbon tetrachloride	ND		1.00	1	06/01/2025 21:12	WG2528328
Chlorobenzene	ND		1.00	1	06/01/2025 21:12	WG2528328
Chlorodibromomethane	ND		1.00	1	06/01/2025 21:12	WG2528328
Chloroethane	ND	C3	2.50	1	06/01/2025 21:12	WG2528328
Chloroform	ND		1.00	1	06/01/2025 21:12	WG2528328
Chloromethane	ND		1.25	1	06/01/2025 21:12	WG2528328
Dibromomethane	ND		1.00	1	06/01/2025 21:12	WG2528328
Ethylbenzene	ND		1.00	1	06/01/2025 21:12	WG2528328
Iodomethane	ND		10.0	1	06/01/2025 21:12	WG2528328
Methylene Chloride	ND		2.50	1	06/01/2025 21:12	WG2528328
Styrene	ND		1.00	1	06/01/2025 21:12	WG2528328
Tetrachloroethene	ND		1.00	1	06/01/2025 21:12	WG2528328
Toluene	ND		1.00	1	06/01/2025 21:12	WG2528328
Trichloroethene	ND		1.00	1	06/01/2025 21:12	WG2528328
Trichlorofluoromethane	ND		2.50	1	06/01/2025 21:12	WG2528328
Vinyl acetate	ND		5.00	1	06/01/2025 21:12	WG2528328
Vinyl chloride	ND	C3	1.00	1	06/01/2025 21:12	WG2528328
Xylenes, Total	ND		1.50	1	06/01/2025 21:12	WG2528328
cis-1,2-Dichloroethene	ND		1.00	1	06/01/2025 21:12	WG2528328
cis-1,3-Dichloropropene	ND		1.00	1	06/01/2025 21:12	WG2528328
trans-1,2-Dichloroethene	ND		1.00	1	06/01/2025 21:12	WG2528328
trans-1,3-Dichloropropene	ND		1.00	1	06/01/2025 21:12	WG2528328
trans-1,4-Dichloro-2-butene	ND		1.00	1	06/01/2025 21:12	WG2528328

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*94.2*			*67.0-138*	*06/01/2025 21:12*	WG2528328
(S) Toluene-d8	*105*			*75.0-131*	*06/01/2025 21:12*	WG2528328
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*	*06/01/2025 21:12*	WG2528328

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth To Water (onsite)	48.98	su
pH (On Site)	7.46	su
Specific Conductance (on site)	1151	umhos/cm
Temperature (on-site)	11	Deg. C
Turbidity (on-site)	40	NTU

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	465		10.0	1	06/05/2025 13:40	WG2530327

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	32.0		4.00	1	06/01/2025 23:28	WG2527928

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	398		20.0	1	06/02/2025 15:43	WG2528621

Sample Narrative:

L1864591-02 WG2528621: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	ND		0.100	1	06/04/2025 15:38	WG2530186

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	19.4		1.00	1	06/04/2025 06:01	WG2527719
Sulfate	76.1	J6	5.00	1	06/04/2025 06:01	WG2527719

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.00200	1	06/14/2025 00:33	WG2529741
Arsenic	ND		0.00200	1	06/14/2025 00:33	WG2529741
Barium	0.138		0.00500	1	06/14/2025 00:33	WG2529741
Beryllium	ND		0.00200	1	06/14/2025 00:33	WG2529741
Calcium	101		1.00	1	06/14/2025 00:33	WG2529741
Cadmium	ND		0.00100	1	06/14/2025 00:33	WG2529741
Cobalt	ND		0.00200	1	06/14/2025 00:33	WG2529741
Chromium	ND		0.00200	1	06/14/2025 00:33	WG2529741
Copper	ND		0.00500	1	06/14/2025 00:33	WG2529741
Iron	0.515		0.100	1	06/14/2025 00:33	WG2529741
Potassium	7.02		1.00	1	06/14/2025 00:33	WG2529741
Magnesium	33.4		1.00	1	06/14/2025 00:33	WG2529741
Sodium	40.7		1.00	1	06/14/2025 00:33	WG2529741
Nickel	ND		0.00200	1	06/14/2025 00:33	WG2529741
Lead	0.00206		0.00200	1	06/14/2025 00:33	WG2529741

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00200	1	06/14/2025 00:33	WG2529741
Selenium	ND		0.00200	1	06/14/2025 00:33	WG2529741
Thallium	ND		0.00200	1	06/14/2025 00:33	WG2529741
Vanadium	ND		0.00500	1	06/14/2025 00:33	WG2529741
Zinc	ND		0.0250	1	06/14/2025 00:33	WG2529741

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/01/2025 21:32	WG2528328
1,2,3-Trichloropropane	ND		0.00580	1	06/05/2025 16:54	WG2528576
1,1,1-Trichloroethane	ND		1.00	1	06/01/2025 21:32	WG2528328
1,2-Dibromo-3-Chloropropane	ND	J4	0.200	1	06/05/2025 16:54	WG2528576
1,1,2,2-Tetrachloroethane	ND		0.300	1	06/01/2025 21:32	WG2528328
1,2-Dibromoethane	ND		0.0500	1	06/05/2025 16:54	WG2528576
1,1,2-Trichloroethane	ND		1.00	1	06/01/2025 21:32	WG2528328
1,1-Dichloroethane	ND		1.00	1	06/01/2025 21:32	WG2528328
1,1-Dichloroethene	ND		1.00	1	06/01/2025 21:32	WG2528328
1,2-Dichlorobenzene	ND		1.00	1	06/01/2025 21:32	WG2528328
1,2-Dichloroethane	ND		1.00	1	06/01/2025 21:32	WG2528328
1,2-Dichloropropane	ND		1.00	1	06/01/2025 21:32	WG2528328
1,4-Dichlorobenzene	ND		1.00	1	06/01/2025 21:32	WG2528328
2-Butanone (MEK)	ND		10.0	1	06/01/2025 21:32	WG2528328
2-Hexanone	ND		5.00	1	06/01/2025 21:32	WG2528328
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	06/01/2025 21:32	WG2528328
Acetone	ND		25.0	1	06/01/2025 21:32	WG2528328
Acrylonitrile	ND		0.320	1	06/01/2025 21:32	WG2528328
Benzene	ND		1.00	1	06/01/2025 21:32	WG2528328
Bromochloromethane	ND		1.00	1	06/01/2025 21:32	WG2528328
Bromodichloromethane	ND		1.00	1	06/01/2025 21:32	WG2528328
Bromoform	ND		1.00	1	06/01/2025 21:32	WG2528328
Bromomethane	ND		2.50	1	06/01/2025 21:32	WG2528328
Carbon disulfide	ND		1.00	1	06/01/2025 21:32	WG2528328
Carbon tetrachloride	ND		1.00	1	06/01/2025 21:32	WG2528328
Chlorobenzene	ND		1.00	1	06/01/2025 21:32	WG2528328
Chlorodibromomethane	ND		1.00	1	06/01/2025 21:32	WG2528328
Chloroethane	ND	C3	2.50	1	06/01/2025 21:32	WG2528328
Chloroform	ND		1.00	1	06/01/2025 21:32	WG2528328
Chloromethane	ND		1.25	1	06/01/2025 21:32	WG2528328
Dibromomethane	ND		1.00	1	06/01/2025 21:32	WG2528328
Ethylbenzene	ND		1.00	1	06/01/2025 21:32	WG2528328
Iodomethane	ND		10.0	1	06/01/2025 21:32	WG2528328
Methylene Chloride	ND		2.50	1	06/01/2025 21:32	WG2528328
Styrene	ND		1.00	1	06/01/2025 21:32	WG2528328
Tetrachloroethene	ND		1.00	1	06/01/2025 21:32	WG2528328
Toluene	ND		1.00	1	06/01/2025 21:32	WG2528328
Trichloroethene	ND		1.00	1	06/01/2025 21:32	WG2528328
Trichlorofluoromethane	ND		2.50	1	06/01/2025 21:32	WG2528328
Vinyl acetate	ND		5.00	1	06/01/2025 21:32	WG2528328
Vinyl chloride	ND	C3	1.00	1	06/01/2025 21:32	WG2528328
Xylenes, Total	ND		1.50	1	06/01/2025 21:32	WG2528328
cis-1,2-Dichloroethene	ND		1.00	1	06/01/2025 21:32	WG2528328
cis-1,3-Dichloropropene	ND		1.00	1	06/01/2025 21:32	WG2528328
trans-1,2-Dichloroethene	ND		1.00	1	06/01/2025 21:32	WG2528328
trans-1,3-Dichloropropene	ND		1.00	1	06/01/2025 21:32	WG2528328
trans-1,4-Dichloro-2-butene	ND		1.00	1	06/01/2025 21:32	WG2528328

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*	*06/01/2025 21:32*	WG2528328
(S) Toluene-d8	*106*			*75.0-131*	*06/01/2025 21:32*	WG2528328
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*	*06/01/2025 21:32*	WG2528328

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth To Water (onsite)	45.12	su
pH (On Site)	7.26	su
Specific Conductance (on site)	1007	umhos/cm
Temperature (on-site)	10.2	Deg. C
Turbidity (on-site)	60	NTU

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	642		10.0	1	06/05/2025 13:40	WG2530327

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	56.8		4.00	1	06/01/2025 23:28	WG2527928

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	446		20.0	1	06/02/2025 15:47	WG2528621

Sample Narrative:

L1864591-03 WG2528621: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.425		0.100	1	06/04/2025 15:39	WG2530186

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	9.30		1.00	1	06/04/2025 07:23	WG2527719
Sulfate	113		5.00	5	06/05/2025 12:16	WG2527719

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.00200	1	06/14/2025 00:36	WG2529741
Arsenic	0.00801		0.00200	1	06/14/2025 00:36	WG2529741
Barium	0.113		0.00500	1	06/14/2025 00:36	WG2529741
Beryllium	ND		0.00200	1	06/14/2025 00:36	WG2529741
Calcium	120		1.00	1	06/14/2025 00:36	WG2529741
Cadmium	ND		0.00100	1	06/14/2025 00:36	WG2529741
Cobalt	ND		0.00200	1	06/14/2025 00:36	WG2529741
Chromium	0.00206		0.00200	1	06/14/2025 00:36	WG2529741
Copper	0.00681		0.00500	1	06/14/2025 00:36	WG2529741
Iron	1.39		0.100	1	06/14/2025 00:36	WG2529741
Potassium	7.55		1.00	1	06/14/2025 00:36	WG2529741
Magnesium	34.7		1.00	1	06/14/2025 00:36	WG2529741
Sodium	58.6		1.00	1	06/14/2025 00:36	WG2529741
Nickel	0.00295		0.00200	1	06/14/2025 00:36	WG2529741
Lead	ND		0.00200	1	06/14/2025 00:36	WG2529741

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00200	1	06/14/2025 00:36	WG2529741
Selenium	ND		0.00200	1	06/14/2025 00:36	WG2529741
Thallium	ND		0.00200	1	06/14/2025 00:36	WG2529741
Vanadium	0.00555		0.00500	1	06/14/2025 00:36	WG2529741
Zinc	ND		0.0250	1	06/14/2025 00:36	WG2529741

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/01/2025 21:52	WG2528328
1,2,3-Trichloropropane	ND		0.00580	1	06/05/2025 17:16	WG2528576
1,1,1-Trichloroethane	ND		1.00	1	06/01/2025 21:52	WG2528328
1,2-Dibromo-3-Chloropropane	ND	J4	0.200	1	06/05/2025 17:16	WG2528576
1,1,2,2-Tetrachloroethane	ND		0.300	1	06/01/2025 21:52	WG2528328
1,2-Dibromoethane	ND		0.0500	1	06/05/2025 17:16	WG2528576
1,1,2-Trichloroethane	ND		1.00	1	06/01/2025 21:52	WG2528328
1,1-Dichloroethane	ND		1.00	1	06/01/2025 21:52	WG2528328
1,1-Dichloroethene	ND		1.00	1	06/01/2025 21:52	WG2528328
1,2-Dichlorobenzene	ND		1.00	1	06/01/2025 21:52	WG2528328
1,2-Dichloroethane	ND		1.00	1	06/01/2025 21:52	WG2528328
1,2-Dichloropropane	ND		1.00	1	06/01/2025 21:52	WG2528328
1,4-Dichlorobenzene	ND		1.00	1	06/01/2025 21:52	WG2528328
2-Butanone (MEK)	ND		10.0	1	06/01/2025 21:52	WG2528328
2-Hexanone	ND		5.00	1	06/01/2025 21:52	WG2528328
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	06/01/2025 21:52	WG2528328
Acetone	ND		25.0	1	06/01/2025 21:52	WG2528328
Acrylonitrile	ND		0.320	1	06/01/2025 21:52	WG2528328
Benzene	ND		1.00	1	06/01/2025 21:52	WG2528328
Bromochloromethane	ND		1.00	1	06/01/2025 21:52	WG2528328
Bromodichloromethane	ND		1.00	1	06/01/2025 21:52	WG2528328
Bromoform	ND		1.00	1	06/01/2025 21:52	WG2528328
Bromomethane	ND		2.50	1	06/01/2025 21:52	WG2528328
Carbon disulfide	ND		1.00	1	06/01/2025 21:52	WG2528328
Carbon tetrachloride	ND		1.00	1	06/01/2025 21:52	WG2528328
Chlorobenzene	ND		1.00	1	06/01/2025 21:52	WG2528328
Chlorodibromomethane	ND		1.00	1	06/01/2025 21:52	WG2528328
Chloroethane	ND	C3	2.50	1	06/01/2025 21:52	WG2528328
Chloroform	ND		1.00	1	06/01/2025 21:52	WG2528328
Chloromethane	ND		1.25	1	06/01/2025 21:52	WG2528328
Dibromomethane	ND		1.00	1	06/01/2025 21:52	WG2528328
Ethylbenzene	ND		1.00	1	06/01/2025 21:52	WG2528328
Iodomethane	ND		10.0	1	06/01/2025 21:52	WG2528328
Methylene Chloride	ND		2.50	1	06/01/2025 21:52	WG2528328
Styrene	ND		1.00	1	06/01/2025 21:52	WG2528328
Tetrachloroethene	ND		1.00	1	06/01/2025 21:52	WG2528328
Toluene	ND		1.00	1	06/01/2025 21:52	WG2528328
Trichloroethene	ND		1.00	1	06/01/2025 21:52	WG2528328
Trichlorofluoromethane	ND		2.50	1	06/01/2025 21:52	WG2528328
Vinyl acetate	ND		5.00	1	06/01/2025 21:52	WG2528328
Vinyl chloride	ND	C3	1.00	1	06/01/2025 21:52	WG2528328
Xylenes, Total	ND		1.50	1	06/01/2025 21:52	WG2528328
cis-1,2-Dichloroethene	ND		1.00	1	06/01/2025 21:52	WG2528328
cis-1,3-Dichloropropene	ND		1.00	1	06/01/2025 21:52	WG2528328
trans-1,2-Dichloroethene	ND		1.00	1	06/01/2025 21:52	WG2528328
trans-1,3-Dichloropropene	ND		1.00	1	06/01/2025 21:52	WG2528328
trans-1,4-Dichloro-2-butene	ND		1.00	1	06/01/2025 21:52	WG2528328

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*94.4*			*67.0-138*	*06/01/2025 21:52*	WG2528328
(S) Toluene-d8	*103*			*75.0-131*	*06/01/2025 21:52*	WG2528328
(S) 1,2-Dichloroethane-d4	*94.8*			*70.0-130*	*06/01/2025 21:52*	WG2528328

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/01/2025 16:34	WG2528328
1,2,3-Trichloropropane	ND		0.00580	1	06/05/2025 15:49	WG2528576
1,1,1-Trichloroethane	ND		1.00	1	06/01/2025 16:34	WG2528328
1,2-Dibromo-3-Chloropropane	ND	J4	0.200	1	06/05/2025 15:49	WG2528576
1,1,2,2-Tetrachloroethane	ND		0.300	1	06/01/2025 16:34	WG2528328
1,2-Dibromoethane	ND		0.0500	1	06/05/2025 15:49	WG2528576
1,1,2-Trichloroethane	ND		1.00	1	06/01/2025 16:34	WG2528328
1,1-Dichloroethane	ND		1.00	1	06/01/2025 16:34	WG2528328
1,1-Dichloroethene	ND		1.00	1	06/01/2025 16:34	WG2528328
1,2-Dichlorobenzene	ND		1.00	1	06/01/2025 16:34	WG2528328
1,2-Dichloroethane	ND		1.00	1	06/01/2025 16:34	WG2528328
1,2-Dichloropropane	ND		1.00	1	06/01/2025 16:34	WG2528328
1,4-Dichlorobenzene	ND		1.00	1	06/01/2025 16:34	WG2528328
2-Butanone (MEK)	ND		10.0	1	06/01/2025 16:34	WG2528328
2-Hexanone	ND		5.00	1	06/01/2025 16:34	WG2528328
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	06/01/2025 16:34	WG2528328
Acetone	ND		25.0	1	06/01/2025 16:34	WG2528328
Acrylonitrile	ND		0.320	1	06/01/2025 16:34	WG2528328
Benzene	ND		1.00	1	06/01/2025 16:34	WG2528328
Bromochloromethane	ND		1.00	1	06/01/2025 16:34	WG2528328
Bromodichloromethane	ND		1.00	1	06/01/2025 16:34	WG2528328
Bromoform	ND		1.00	1	06/01/2025 16:34	WG2528328
Bromomethane	ND		2.50	1	06/01/2025 16:34	WG2528328
Carbon disulfide	ND		1.00	1	06/01/2025 16:34	WG2528328
Carbon tetrachloride	ND		1.00	1	06/01/2025 16:34	WG2528328
Chlorobenzene	ND		1.00	1	06/01/2025 16:34	WG2528328
Chlorodibromomethane	ND		1.00	1	06/01/2025 16:34	WG2528328
Chloroethane	ND	C3	2.50	1	06/01/2025 16:34	WG2528328
Chloroform	ND		1.00	1	06/01/2025 16:34	WG2528328
Chloromethane	ND		1.25	1	06/01/2025 16:34	WG2528328
Dibromomethane	ND		1.00	1	06/01/2025 16:34	WG2528328
Ethylbenzene	ND		1.00	1	06/01/2025 16:34	WG2528328
Iodomethane	ND		10.0	1	06/01/2025 16:34	WG2528328
Methylene Chloride	ND		2.50	1	06/01/2025 16:34	WG2528328
Styrene	ND		1.00	1	06/01/2025 16:34	WG2528328
Tetrachloroethene	ND		1.00	1	06/01/2025 16:34	WG2528328
Toluene	ND		1.00	1	06/01/2025 16:34	WG2528328
Trichloroethene	ND		1.00	1	06/01/2025 16:34	WG2528328
Trichlorofluoromethane	ND		2.50	1	06/01/2025 16:34	WG2528328
Vinyl acetate	ND		5.00	1	06/01/2025 16:34	WG2528328
Vinyl chloride	ND	C3	1.00	1	06/01/2025 16:34	WG2528328
Xylenes, Total	ND		1.50	1	06/01/2025 16:34	WG2528328
cis-1,2-Dichloroethene	ND		1.00	1	06/01/2025 16:34	WG2528328
cis-1,3-Dichloropropene	ND		1.00	1	06/01/2025 16:34	WG2528328
trans-1,2-Dichloroethene	ND		1.00	1	06/01/2025 16:34	WG2528328
trans-1,3-Dichloropropene	ND		1.00	1	06/01/2025 16:34	WG2528328
trans-1,4-Dichloro-2-butene	ND		1.00	1	06/01/2025 16:34	WG2528328
(S) 4-Bromofluorobenzene	*97.4*			*67.0-138*	*06/01/2025 16:34*	WG2528328
(S) Toluene-d8	*105*			*75.0-131*	*06/01/2025 16:34*	WG2528328
(S) 1,2-Dichloroethane-d4	*97.0*			*70.0-130*	*06/01/2025 16:34*	WG2528328

Method Blank (MB)

(MB) R4227587-1 06/05/25 13:40

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	ND		2.82	10.0

L1864591-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1864591-02 06/05/25 13:40 • (DUP) R4227587-3 06/05/25 13:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	465	472	1	1.49		10

L1865170-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1865170-01 06/05/25 13:40 • (DUP) R4227587-4 06/05/25 13:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1210	1210	1	0.207		10

Laboratory Control Sample (LCS)

(LCS) R4227587-2 06/05/25 13:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8880	101	90.0-110	

Method Blank (MB)

(MB) R4227383-1 06/05/25 13:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	ND		2.82	10.0

L1864591-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864591-01 06/05/25 13:35 • (DUP) R4227383-3 06/05/25 13:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1560	1510	1	3.00		10

L1865839-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1865839-05 06/05/25 13:35 • (DUP) R4227383-4 06/05/25 13:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	7220	7240	1	0.277		10

Laboratory Control Sample (LCS)

(LCS) R4227383-2 06/05/25 13:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8810	100	90.0-110	

Method Blank (MB)

(MB) R4224091-1 06/01/25 23:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1864480-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1864480-04 06/01/25 23:28 • (DUP) R4224091-3 06/01/25 23:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	5230	5240	1	0.191		10

L1864570-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864570-01 06/01/25 23:28 • (DUP) R4224091-4 06/01/25 23:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	536	560	1	4.38		10

Laboratory Control Sample (LCS)

(LCS) R4224091-2 06/01/25 23:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	770	99.6	85.0-115	

Method Blank (MB)

(MB) R4223780-2 06/01/25 12:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1864580-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864580-01 06/01/25 13:13 • (DUP) R4223780-3 06/01/25 13:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	263	262	1	0.224		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1864754-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1864754-04 06/01/25 15:26 • (DUP) R4223780-4 06/01/25 15:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	315	320	1	1.64		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4223780-1 06/01/25 12:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	104	104	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4224318-2 06/02/25 14:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1864475-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1864475-06 06/02/25 14:35 • (DUP) R4224318-4 06/02/25 14:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	390	394	1	0.887		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1864754-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1864754-02 06/02/25 16:50 • (DUP) R4224318-6 06/02/25 16:53

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	325	325	1	0.0196		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4224318-1 06/02/25 14:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	100	100	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4225563-1 06/04/25 14:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1864453-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1864453-02 06/04/25 15:02 • (DUP) R4225563-5 06/04/25 15:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1864453-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1864453-04 06/04/25 15:12 • (DUP) R4225563-7 06/04/25 15:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4225563-2 06/04/25 14:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.41	98.7	90.0-110	

L1864453-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864453-01 06/04/25 14:57 • (MS) R4225563-3 06/04/25 14:59 • (MSD) R4225563-4 06/04/25 15:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	ND	5.05	5.13	101	103	1	90.0-110			1.67	10

L1864453-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1864453-03 06/04/25 15:05 • (MS) R4225563-6 06/04/25 15:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.14	103	1	90.0-110	

Method Blank (MB)

(MB) R4225212-1 06/03/25 21:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.317		0.0519	1.00
Sulfate	0.377		0.0774	5.00

L1864518-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864518-01 06/03/25 21:51 • (DUP) R4225212-3 06/03/25 22:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	33.8	34.6	1	2.30		15
Sulfate	ND	ND	1	1.14		15

L1864591-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1864591-02 06/04/25 06:01 • (DUP) R4225212-6 06/04/25 06:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	19.4	19.4	1	0.116		15
Sulfate	76.1	76.1	1	0.112		15

Laboratory Control Sample (LCS)

(LCS) R4225212-2 06/03/25 21:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.0	99.9	80.0-120	
Sulfate	40.0	40.5	101	80.0-120	

L1864518-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864518-01 06/03/25 21:51 • (MS) R4225212-4 06/03/25 22:24 • (MSD) R4225212-5 06/03/25 22:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	33.8	69.8	71.8	90.0	94.9	1	80.0-120			2.79	15
Sulfate	40.0	ND	42.1	42.7	103	105	1	80.0-120			1.48	15

L1864591-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1864591-02 06/04/25 06:01 • (MS) R4225212-7 06/04/25 06:34

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	19.4	54.8	88.5	1	80.0-120	
Sulfate	40.0	76.1	97.6	53.7	1	80.0-120	J6

QUALITY CONTROL SUMMARY

L1864591-01,02,03

Method Blank (MB)

(MB) R4230250-1 06/13/25 23:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silver	ND		0.000250	0.00200
Arsenic	ND		0.000250	0.00200
Barium	ND		0.000360	0.00500
Beryllium	ND		0.000120	0.00200
Calcium	ND		0.0460	1.00
Cadmium	ND		0.000160	0.00100
Cobalt	ND		0.000260	0.00200
Chromium	ND		0.000540	0.00200
Copper	ND		0.000520	0.00500
Iron	ND		0.0150	0.100
Potassium	ND		0.0370	1.00
Magnesium	ND		0.100	1.00
Sodium	0.319	J	0.110	1.00
Nickel	ND		0.000350	0.00200
Lead	ND		0.000240	0.00200
Antimony	ND		0.000754	0.00200
Selenium	ND		0.000380	0.00200
Thallium	ND		0.000190	0.00200
Vanadium	ND		0.000180	0.00500
Zinc	ND		0.00256	0.0250

Laboratory Control Sample (LCS)

(LCS) R4230250-6 06/14/25 00:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver	0.0500	0.0505	101	80.0-120	
Arsenic	0.0500	0.0473	94.5	80.0-120	
Barium	0.0500	0.0470	93.9	80.0-120	
Beryllium	0.0500	0.0464	92.8	80.0-120	
Calcium	5.00	4.91	98.3	80.0-120	
Cadmium	0.0500	0.0553	111	80.0-120	
Cobalt	0.0500	0.0516	103	80.0-120	
Chromium	0.0500	0.0505	101	80.0-120	
Copper	0.0500	0.0516	103	80.0-120	
Iron	1.00	0.977	97.7	80.0-120	
Potassium	5.00	4.72	94.4	80.0-120	
Magnesium	5.00	4.80	95.9	80.0-120	
Sodium	5.00	4.88	97.6	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4230250-6 06/14/25 00:17

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nickel	0.0500	0.0521	104	80.0-120	
Lead	0.0500	0.0504	101	80.0-120	
Antimony	0.0500	0.0494	98.8	80.0-120	
Selenium	0.0500	0.0495	99.1	80.0-120	
Thallium	0.0500	0.0465	93.0	80.0-120	
Vanadium	0.0500	0.0497	99.3	80.0-120	
Zinc	0.0500	0.0485	97.1	80.0-120	

L1864518-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864518-02 06/13/25 23:37 • (MS) R4230250-4 06/13/25 23:43 • (MSD) R4230250-5 06/13/25 23:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver	0.0500	ND	0.0514	0.0509	103	102	1	75.0-125			0.922	20
Arsenic	0.0500	ND	0.0492	0.0475	98.0	94.7	1	75.0-125			3.44	20
Barium	0.0500	0.334	0.382	0.376	96.1	84.3	1	75.0-125			1.56	20
Beryllium	0.0500	ND	0.0473	0.0473	94.7	94.6	1	75.0-125			0.128	20
Calcium	5.00	144	148	147	64.7	52.6	1	75.0-125	V	V	0.413	20
Cadmium	0.0500	ND	0.0539	0.0553	108	111	1	75.0-125			2.47	20
Cobalt	0.0500	ND	0.0505	0.0506	101	101	1	75.0-125			0.164	20
Chromium	0.0500	ND	0.0509	0.0504	102	101	1	75.0-125			1.16	20
Copper	0.0500	ND	0.0500	0.0502	100	100	1	75.0-125			0.252	20
Iron	1.00	14.1	15.1	15.0	101	89.5	1	75.0-125			0.757	20
Potassium	5.00	3.00	7.77	7.66	95.2	93.1	1	75.0-125			1.38	20
Magnesium	5.00	32.0	36.8	35.8	95.5	76.0	1	75.0-125			2.69	20
Sodium	5.00	52.8	57.1	58.1	85.0	106	1	75.0-125			1.85	20
Nickel	0.0500	ND	0.0506	0.0512	101	102	1	75.0-125			1.27	20
Lead	0.0500	ND	0.0494	0.0502	98.7	100	1	75.0-125			1.61	20
Antimony	0.0500	ND	0.0516	0.0504	103	101	1	75.0-125			2.37	20
Selenium	0.0500	ND	0.0505	0.0501	101	100	1	75.0-125			0.807	20
Thallium	0.0500	ND	0.0468	0.0467	93.7	93.4	1	75.0-125			0.265	20
Vanadium	0.0500	ND	0.0503	0.0503	101	101	1	75.0-125			0.0377	20
Zinc	0.0500	ND	0.0492	0.0483	98.5	96.6	1	75.0-125			1.98	20

Method Blank (MB)

(MB) R4224931-2 06/01/25 11:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.0379	0.100
1,1,1-Trichloroethane	ND		0.0369	0.100
1,1,2,2-Tetrachloroethane	ND		0.0278	0.100
1,1,2-Trichloroethane	ND		0.0239	0.100
1,1-Dichloroethane	ND		0.0196	0.100
1,1-Dichloroethene	ND		0.0242	0.100
1,2-Dichlorobenzene	ND		0.0170	0.200
1,2-Dichloroethane	ND		0.0260	0.100
1,2-Dichloropropane	ND		0.0568	0.200
1,4-Dichlorobenzene	ND		0.0280	0.200
2-Butanone (MEK)	ND		2.54	4.00
2-Hexanone	ND		0.134	1.00
4-Methyl-2-pentanone (MIBK)	ND		0.0912	1.00
Acetone	ND		1.46	2.00
Acrylonitrile	ND		0.144	0.500
Benzene	ND		0.0187	0.0400
Bromochloromethane	ND		0.0226	0.200
Bromodichloromethane	ND		0.0290	0.100
Bromoform	ND		0.0468	1.00
Bromomethane	0.0850		0.0788	0.500
Carbon disulfide	ND		0.0280	0.500
Carbon tetrachloride	ND		0.0359	0.200
Chlorobenzene	ND		0.00840	0.100
Chlorodibromomethane	ND		0.0245	0.100
Chloroethane	ND		0.0680	0.200
Chloroform	ND		0.0412	0.100
Chloromethane	ND		0.174	0.500
Dibromomethane	ND		0.0300	0.200
Ethylbenzene	ND		0.0295	0.100
Iodomethane	0.184		0.0928	0.500
Methylene Chloride	ND		0.266	1.00
Styrene	ND		0.00916	0.500
Tetrachloroethene	ND		0.0358	0.100
Toluene	ND		0.0520	0.200
Trichloroethene	ND		0.0234	0.0400
Trichlorofluoromethane	ND		0.0331	0.100
Vinyl acetate	ND		0.102	0.500
Vinyl chloride	ND		0.0462	1.00
Xylenes, Total	ND		0.0352	0.260
cis-1,2-Dichloroethene	ND		0.0294	0.100

Method Blank (MB)

(MB) R4224931-2 06/01/25 11:40

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,3-Dichloropropene	ND		0.0303	0.100
trans-1,2-Dichloroethene	ND		0.0416	0.200
trans-1,3-Dichloropropene	ND		0.0456	0.200
trans-1,4-Dichloro-2-butene	ND		0.0744	0.200
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*
(S) Toluene-d8	*105*			*75.0-131*
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4224931-1 06/01/25 10:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1,2-Tetrachloroethane	5.00	4.70	94.0	74.0-129	
1,1,1-Trichloroethane	5.00	4.70	94.0	69.0-126	
1,1,2,2-Tetrachloroethane	5.00	4.64	92.8	68.0-128	
1,1,2-Trichloroethane	5.00	5.08	102	78.0-123	
1,1-Dichloroethane	5.00	4.60	92.0	70.0-127	
1,1-Dichloroethene	5.00	4.47	89.4	65.0-131	
1,2-Dichlorobenzene	5.00	4.86	97.2	76.0-124	
1,2-Dichloroethane	5.00	4.81	96.2	65.0-131	
1,2-Dichloropropane	5.00	4.58	91.6	74.0-125	
1,4-Dichlorobenzene	5.00	4.81	96.2	77.0-121	
2-Butanone (MEK)	25.0	25.7	103	30.0-160	
2-Hexanone	25.0	25.9	104	54.0-147	
4-Methyl-2-pentanone (MIBK)	25.0	25.0	100	56.0-143	
Acetone	25.0	21.9	87.6	10.0-160	
Acrylonitrile	25.0	24.2	96.8	45.0-153	
Benzene	5.00	4.53	90.6	70.0-123	
Bromochloromethane	5.00	4.47	89.4	77.0-128	
Bromodichloromethane	5.00	4.75	95.0	73.0-121	
Bromoform	5.00	4.34	86.8	64.0-132	
Bromomethane	5.00	4.33	86.6	56.0-147	
Carbon disulfide	5.00	4.70	94.0	56.0-133	
Carbon tetrachloride	5.00	4.59	91.8	66.0-128	
Chlorobenzene	5.00	4.96	99.2	76.0-128	
Chlorodibromomethane	5.00	4.63	92.6	74.0-127	
Chloroethane	5.00	3.56	71.2	61.0-134	
Chloroform	5.00	4.75	95.0	72.0-123	

Laboratory Control Sample (LCS)

(LCS) R4224931-1 06/01/25 10:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloromethane	5.00	4.50	90.0	51.0-138	
Dibromomethane	5.00	4.77	95.4	75.0-122	
Ethylbenzene	5.00	4.85	97.0	74.0-126	
Iodomethane	25.0	21.1	84.4	74.0-134	
Methylene Chloride	5.00	4.74	94.8	68.0-123	
Styrene	5.00	4.98	99.6	72.0-127	
Tetrachloroethene	5.00	4.75	95.0	70.0-136	
Toluene	5.00	4.97	99.4	75.0-121	
Trichloroethene	5.00	4.78	95.6	76.0-126	
Trichlorofluoromethane	5.00	4.16	83.2	61.0-142	J
Vinyl acetate	25.0	25.9	104	43.0-159	
Vinyl chloride	5.00	3.66	73.2	63.0-134	
Xylenes, Total	15.0	15.3	102	72.0-127	
cis-1,2-Dichloroethene	5.00	4.79	95.8	73.0-125	
cis-1,3-Dichloropropene	5.00	4.46	89.2	76.0-127	
trans-1,2-Dichloroethene	5.00	4.74	94.8	71.0-125	
trans-1,3-Dichloropropene	5.00	4.89	97.8	73.0-127	
trans-1,4-Dichloro-2-butene	5.00	4.40	88.0	45.0-143	
(S) 4-Bromofluorobenzene			*97.2*	*67.0-138*	
(S) Toluene-d8			*104*	*75.0-131*	
(S) 1,2-Dichloroethane-d4			*97.2*	*70.0-130*	

Method Blank (MB)

(MB) R4226423-2 06/05/25 15:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichloropropane	ND		0.00200	0.00500
1,2-Dibromo-3-Chloropropane	ND		0.000520	0.200
1,2-Dibromoethane	ND		0.00410	0.00500

Laboratory Control Sample (LCS)

(LCS) R4226423-1 06/05/25 15:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichloropropane	0.0500	0.0580	116	70.0-130	
1,2-Dibromo-3-Chloropropane	0.0500	0.0740	148	70.0-130	J4
1,2-Dibromoethane	0.0500	0.0530	106	70.0-130	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Central Disposal Systems, Inc. Landfill

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
200

Lab Project #
WMCENIA-00008

Collected by (print):
Mike Hunt

Site/Facility ID #
IA02

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK,CHLORIDE,SULFATE 125mlHDPE-NoPres	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	TDS 1L-HDPE NoPres	TSS 1L-HDPE NoPres	V524LL 40mlAmb-AscAcid+HCl	V524LL 40mlAmb-HCl-Blk	V8260ULL 40mlAmb-HCl	V8260ULL 40mlAmb-HCl-Blk			
MW-134		GW		5/29/25	1200	11	X	X	X	X	X	X		X				-01
MW-135		GW			1130	11	X	X	X	X	X	X		X				-02
MW-136		GW			1030	11	X	X	X	X	X	X		X				-03
Trip Blank		GW				2							X		X			-04

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 1864591
B057

Acctnum: **WMCENIA**
Template: **T231655**
Prelogin: **P1138926**
PM: **3564 - Chad A Upchurch**
PB: 3/19/25 mw
Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4580 6303 8152

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

	Date:	Time:		
Relinquished by : (Signature)	5/29/25	1800	Received by: (Signature) FedEx	Trip Blank Received: Yes / No HCL / MeoH TBR 2
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 5.5+1.4=5.9 °C Bottles Received: 33
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Alexa Mitchell	Date: 5/30/25 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CDS

Site No.: | | | | |

Sample Point: MW134

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1864591

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/29/25	12:06				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 31.76 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): 58.1 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
12:00	1st	7.36	1st 1915	12.3	56.1	0.6	266	
	2nd		2nd					
	3rd		3rd					
	4th		4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: None Color: None Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

passive Sampled @ ~~1200~~ 1200

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
5/29/25	Mike Hamm		

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CDS

Site No.: ____ Sample Point: MW135 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1869591

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05/29/25	1400	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C
Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

X-Other: ____

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	48.98 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
74.1 (ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit GPM	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1115	0.5	1st 7.46	1st 1151	1110	461	2.3	50	
:		2nd	2nd					
:		3rd	3rd					
:		4th	4th					
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: None Color: None Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

~~Purged~~ Sampled @ 1130

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
5/29/25	[signature]	[signature]	[signature]

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CDS

Site No.: | | | | | Sample Point: MW136 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 486491

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
05 29 25	~~10:30~~ am	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 45.12 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): 80.4 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit 6PM	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:15	0.5 1st	7.06 1st	1056 1st	10.2	112	3.8	306	
10:25	2nd	7.15 2nd	1024 2nd	10.1	84	4.3	311	
10:30	3rd	7.26 3rd	1007 3rd	10.2	60	4.6	292	
:	4th	4th	4th					
:								
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: None Color: None Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
5/29/25	Mike Hess		AECOM

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

ANALYTICAL REPORT

July 09, 2025

Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1864637
Samples Received:	05/30/2025
Project Number:	200
Description:	GU-VIII-1 Background
Site:	IA02
Report To:	Aaron Rebmann 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

Trip Blank L1864637-01

Collected by: Mike Hamer
Collected date/time: 05/29/25 00:00
Received date/time: 05/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2528576	1	06/05/25 16:11	06/05/25 16:11	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2531846	1	06/05/25 15:59	06/05/25 15:59	JHH	Mt. Juliet, TN

GU-VIII-1 L1864637-02

Collected by: Mike Hamer
Collected date/time: 05/29/25 13:00
Received date/time: 05/30/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2529606	1	06/03/25 13:07	06/04/25 10:42	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2527905	1	05/31/25 15:18	06/02/25 15:00	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2528268	1	06/01/25 14:37	06/01/25 14:37	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2530190	1	06/04/25 16:38	06/04/25 16:38	LAS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2527729	5	06/07/25 17:04	06/07/25 17:04	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2527729	50	06/07/25 17:20	06/07/25 17:20	DLH	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2529739	1	06/06/25 13:07	06/10/25 01:59	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2528576	1	06/05/25 17:37	06/05/25 17:37	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2531846	1	06/05/25 16:20	06/05/25 16:20	JHH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		0.100	1	06/05/2025 15:59	WG2531846
1,2,3-Trichloropropane	ND		0.00500	1	06/05/2025 16:11	WG2528576
1,1,1-Trichloroethane	ND		0.100	1	06/05/2025 15:59	WG2531846
1,2-Dibromo-3-Chloropropane	ND	J4	0.00500	1	06/05/2025 16:11	WG2528576
1,1,2,2-Tetrachloroethane	ND		0.100	1	06/05/2025 15:59	WG2531846
1,2-Dibromoethane	ND		0.00500	1	06/05/2025 16:11	WG2528576
1,1,2-Trichloroethane	ND		0.100	1	06/05/2025 15:59	WG2531846
1,1-Dichloroethane	ND		0.100	1	06/05/2025 15:59	WG2531846
1,1-Dichloroethene	ND		0.100	1	06/05/2025 15:59	WG2531846
1,2-Dichlorobenzene	ND		0.200	1	06/05/2025 15:59	WG2531846
1,2-Dichloroethane	ND		0.100	1	06/05/2025 15:59	WG2531846
1,2-Dichloropropane	ND		0.200	1	06/05/2025 15:59	WG2531846
1,4-Dichlorobenzene	ND		0.200	1	06/05/2025 15:59	WG2531846
2-Butanone (MEK)	ND		4.00	1	06/05/2025 15:59	WG2531846
2-Hexanone	ND		1.00	1	06/05/2025 15:59	WG2531846
4-Methyl-2-pentanone (MIBK)	ND		1.00	1	06/05/2025 15:59	WG2531846
Acetone	28.3		2.00	1	06/05/2025 15:59	WG2531846
Acrylonitrile	ND		0.500	1	06/05/2025 15:59	WG2531846
Benzene	ND		0.0400	1	06/05/2025 15:59	WG2531846
Bromochloromethane	ND		0.200	1	06/05/2025 15:59	WG2531846
Bromodichloromethane	ND		0.100	1	06/05/2025 15:59	WG2531846
Bromoform	ND		1.00	1	06/05/2025 15:59	WG2531846
Bromomethane	ND	C3	0.500	1	06/05/2025 15:59	WG2531846
Carbon disulfide	ND		0.500	1	06/05/2025 15:59	WG2531846
Carbon tetrachloride	ND		0.200	1	06/05/2025 15:59	WG2531846
Chlorobenzene	ND		0.100	1	06/05/2025 15:59	WG2531846
Chlorodibromomethane	ND		0.100	1	06/05/2025 15:59	WG2531846
Chloroethane	ND		0.200	1	06/05/2025 15:59	WG2531846
Chloroform	ND		0.100	1	06/05/2025 15:59	WG2531846
Chloromethane	ND		0.500	1	06/05/2025 15:59	WG2531846
Dibromomethane	ND		0.200	1	06/05/2025 15:59	WG2531846
Ethylbenzene	ND		0.100	1	06/05/2025 15:59	WG2531846
Iodomethane	ND		0.500	1	06/05/2025 15:59	WG2531846
Methylene Chloride	ND		1.00	1	06/05/2025 15:59	WG2531846
Styrene	ND		0.500	1	06/05/2025 15:59	WG2531846
Tetrachloroethene	ND		0.100	1	06/05/2025 15:59	WG2531846
Toluene	ND		0.200	1	06/05/2025 15:59	WG2531846
Trichloroethene	ND		0.0400	1	06/05/2025 15:59	WG2531846
Trichlorofluoromethane	ND		0.100	1	06/05/2025 15:59	WG2531846
Vinyl acetate	ND		0.500	1	06/05/2025 15:59	WG2531846
Vinyl chloride	ND		0.0500	1	06/05/2025 15:59	WG2531846
Xylenes, Total	ND		0.260	1	06/05/2025 15:59	WG2531846
cis-1,2-Dichloroethene	ND		0.100	1	06/05/2025 15:59	WG2531846
cis-1,3-Dichloropropene	ND		0.100	1	06/05/2025 15:59	WG2531846
trans-1,2-Dichloroethene	ND		0.200	1	06/05/2025 15:59	WG2531846
trans-1,3-Dichloropropene	ND		0.200	1	06/05/2025 15:59	WG2531846
trans-1,4-Dichloro-2-butene	ND		0.200	1	06/05/2025 15:59	WG2531846
(S) 4-Bromofluorobenzene	*96.0*		*67.0-138*		*06/05/2025 15:59*	WG2531846
(S) Toluene-d8	*97.7*		*75.0-131*		*06/05/2025 15:59*	WG2531846
(S) 1,2-Dichloroethane-d4	*108*		*70.0-130*		*06/05/2025 15:59*	WG2531846

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.24	su
Specific Conductance (on site)	2295	umhos/cm
Temperature (on-site)	16.1	Deg. C
Turbidity (on-site)	1	NTU

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1830		25.0	1	06/04/2025 10:42	WG2529606

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	2.70		2.50	1	06/02/2025 15:00	WG2527905

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	486		20.0	1	06/01/2025 14:37	WG2528268

Sample Narrative:

L1864637-02 WG2528268: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	6.20		0.100	1	06/04/2025 16:38	WG2530190

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	34.9		5.00	5	06/07/2025 17:04	WG2527729
Sulfate	947		250	50	06/07/2025 17:20	WG2527729

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.00200	1	06/10/2025 01:59	WG2529739
Arsenic	0.00269		0.00200	1	06/10/2025 01:59	WG2529739
Barium	0.0536		0.00500	1	06/10/2025 01:59	WG2529739
Beryllium	ND		0.00200	1	06/10/2025 01:59	WG2529739
Calcium	354		1.00	1	06/10/2025 01:59	WG2529739
Cadmium	ND		0.00100	1	06/10/2025 01:59	WG2529739
Cobalt	0.00606		0.00200	1	06/10/2025 01:59	WG2529739
Chromium	ND		0.00200	1	06/10/2025 01:59	WG2529739
Copper	ND		0.00500	1	06/10/2025 01:59	WG2529739
Iron	1.36		0.100	1	06/10/2025 01:59	WG2529739
Potassium	14.0		1.00	1	06/10/2025 01:59	WG2529739
Magnesium	105		1.00	1	06/10/2025 01:59	WG2529739
Sodium	40.6		1.00	1	06/10/2025 01:59	WG2529739
Nickel	0.0168		0.00200	1	06/10/2025 01:59	WG2529739
Lead	ND		0.00200	1	06/10/2025 01:59	WG2529739
Antimony	ND		0.00200	1	06/10/2025 01:59	WG2529739

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	ND		0.00200	1	06/10/2025 01:59	WG2529739
Thallium	ND		0.00200	1	06/10/2025 01:59	WG2529739
Vanadium	ND		0.00500	1	06/10/2025 01:59	WG2529739
Zinc	ND		0.0250	1	06/10/2025 01:59	WG2529739

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		0.100	1	06/05/2025 16:20	WG2531846
1,2,3-Trichloropropane	ND		0.00500	1	06/05/2025 17:37	WG2528576
1,1,1-Trichloroethane	ND		0.100	1	06/05/2025 16:20	WG2531846
1,2-Dibromo-3-Chloropropane	ND	J4	0.00500	1	06/05/2025 17:37	WG2528576
1,1,2,2-Tetrachloroethane	ND		0.100	1	06/05/2025 16:20	WG2531846
1,2-Dibromoethane	ND		0.00500	1	06/05/2025 17:37	WG2528576
1,1,2-Trichloroethane	ND		0.100	1	06/05/2025 16:20	WG2531846
1,1-Dichloroethane	ND		0.100	1	06/05/2025 16:20	WG2531846
1,1-Dichloroethene	ND		0.100	1	06/05/2025 16:20	WG2531846
1,2-Dichlorobenzene	ND		0.200	1	06/05/2025 16:20	WG2531846
1,2-Dichloroethane	ND		0.100	1	06/05/2025 16:20	WG2531846
1,2-Dichloropropane	ND		0.200	1	06/05/2025 16:20	WG2531846
1,4-Dichlorobenzene	ND		0.200	1	06/05/2025 16:20	WG2531846
2-Butanone (MEK)	ND		4.00	1	06/05/2025 16:20	WG2531846
2-Hexanone	ND		1.00	1	06/05/2025 16:20	WG2531846
4-Methyl-2-pentanone (MIBK)	ND		1.00	1	06/05/2025 16:20	WG2531846
Acetone	3.40	B	2.00	1	06/05/2025 16:20	WG2531846
Acrylonitrile	ND		0.500	1	06/05/2025 16:20	WG2531846
Benzene	ND		0.0400	1	06/05/2025 16:20	WG2531846
Bromochloromethane	ND		0.200	1	06/05/2025 16:20	WG2531846
Bromodichloromethane	ND		0.100	1	06/05/2025 16:20	WG2531846
Bromoform	ND		1.00	1	06/05/2025 16:20	WG2531846
Bromomethane	ND	C3	0.500	1	06/05/2025 16:20	WG2531846
Carbon disulfide	ND		0.500	1	06/05/2025 16:20	WG2531846
Carbon tetrachloride	ND		0.200	1	06/05/2025 16:20	WG2531846
Chlorobenzene	ND		0.100	1	06/05/2025 16:20	WG2531846
Chlorodibromomethane	ND		0.100	1	06/05/2025 16:20	WG2531846
Chloroethane	ND		0.200	1	06/05/2025 16:20	WG2531846
Chloroform	ND		0.100	1	06/05/2025 16:20	WG2531846
Chloromethane	ND		0.500	1	06/05/2025 16:20	WG2531846
Dibromomethane	ND		0.200	1	06/05/2025 16:20	WG2531846
Ethylbenzene	ND		0.100	1	06/05/2025 16:20	WG2531846
Iodomethane	ND		0.500	1	06/05/2025 16:20	WG2531846
Methylene Chloride	ND		1.00	1	06/05/2025 16:20	WG2531846
Styrene	ND		0.500	1	06/05/2025 16:20	WG2531846
Tetrachloroethene	ND		0.100	1	06/05/2025 16:20	WG2531846
Toluene	ND		0.200	1	06/05/2025 16:20	WG2531846
Trichloroethene	ND		0.0400	1	06/05/2025 16:20	WG2531846
Trichlorofluoromethane	ND		0.100	1	06/05/2025 16:20	WG2531846
Vinyl acetate	ND		0.500	1	06/05/2025 16:20	WG2531846
Vinyl chloride	ND		0.0500	1	06/05/2025 16:20	WG2531846
Xylenes, Total	ND		0.260	1	06/05/2025 16:20	WG2531846
cis-1,2-Dichloroethene	ND		0.100	1	06/05/2025 16:20	WG2531846
cis-1,3-Dichloropropene	ND		0.100	1	06/05/2025 16:20	WG2531846
trans-1,2-Dichloroethene	ND		0.200	1	06/05/2025 16:20	WG2531846
trans-1,3-Dichloropropene	ND		0.200	1	06/05/2025 16:20	WG2531846
trans-1,4-Dichloro-2-butene	ND		0.200	1	06/05/2025 16:20	WG2531846
(S) 4-Bromofluorobenzene	*96.1*		*67.0-138*		*06/05/2025 16:20*	WG2531846

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
(S) Toluene-d8	*98.6*		*75.0-131*		*06/05/2025 16:20*	WG2531846
(S) 1,2-Dichloroethane-d4	*107*		*70.0-130*		*06/05/2025 16:20*	WG2531846

Method Blank (MB)

(MB) R4227203-1 06/04/25 10:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	4.00	J	2.82	10.0

L1864533-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864533-01 06/04/25 10:42 • (DUP) R4227203-3 06/04/25 10:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	7400	7560	1	2.14		10

L1864940-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1864940-03 06/04/25 10:42 • (DUP) R4227203-4 06/04/25 10:42

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4227203-2 06/04/25 10:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8890	101	90.0-110	

Method Blank (MB)

(MB) R4224809-1 06/02/25 15:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	U		0.350	2.50

L1864150-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864150-01 06/02/25 15:00 • (DUP) R4224809-3 06/02/25 15:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	127	126	1	0.791		10

L1864150-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1864150-03 06/02/25 15:00 • (DUP) R4224809-4 06/02/25 15:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	876	870	1	0.687		10

Laboratory Control Sample (LCS)

(LCS) R4224809-2 06/02/25 15:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	778	101	85.0-115	

Method Blank (MB)

(MB) R4223780-2 06/01/25 12:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	U		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1864580-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864580-01 06/01/25 13:13 • (DUP) R4223780-3 06/01/25 13:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	263	262	1	0.224		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1864754-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1864754-04 06/01/25 15:26 • (DUP) R4223780-4 06/01/25 15:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	315	320	1	1.64		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4223780-1 06/01/25 12:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	104	104	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

QUALITY CONTROL SUMMARY

L1864637-02

Method Blank (MB)

(MB) R4225564-1 06/04/25 15:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	U		0.0317	0.100

L1864605-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1864605-05 06/04/25 16:22 • (DUP) R4225564-3 06/04/25 16:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	4.99	5.02	1	0.699		10

L1864605-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1864605-06 06/04/25 16:28 • (DUP) R4225564-6 06/04/25 16:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	5.00	4.90	1	2.00		10

Laboratory Control Sample (LCS)

(LCS) R4225564-2 06/04/25 15:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.32	97.6	90.0-110	

L1864605-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864605-05 06/04/25 16:22 • (MS) R4225564-4 06/04/25 16:25 • (MSD) R4225564-5 06/04/25 16:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	4.99	9.79	9.85	95.9	97.2	1	90.0-110			0.652	10

L1864605-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1864605-06 06/04/25 16:28 • (MS) R4225564-7 06/04/25 16:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	5.00	9.82	96.4	1	90.0-110	

Method Blank (MB)

(MB) R4227257-1 06/07/25 11:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.105		0.0519	1.00
Sulfate	0.225		0.0774	5.00

L1864589-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1864589-17 06/07/25 12:11 • (DUP) R4227257-4 06/07/25 12:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1040	999	20	3.92		15

L1864602-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1864602-04 06/07/25 14:37 • (DUP) R4227257-7 06/07/25 14:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	ND	ND	1	3.84		15
Sulfate	13.6	13.4	1	0.964		15

Laboratory Control Sample (LCS)

(LCS) R4227257-2 06/07/25 11:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.1	100	80.0-120	
Sulfate	40.0	41.2	103	80.0-120	

L1864589-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864589-17 06/07/25 11:54 • (MS) R4227257-5 06/07/25 12:59 • (MSD) R4227257-6 06/07/25 13:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	985	839	830	0.000	0.000	5	80.0-120	E V	E V	1.01	15
Sulfate	40.0	3880	3160	3150	0.000	0.000	5	80.0-120	E V	E V	0.138	15

L1864602-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1864602-04 06/07/25 14:37 • (MS) R4227257-8 06/07/25 15:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	ND	40.8	100	1	80.0-120	
Sulfate	40.0	13.6	51.0	93.5	1	80.0-120	

Method Blank (MB)

(MB) R4227914-1 06/10/25 00:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silver	U		0.000250	0.00200
Arsenic	U		0.000250	0.00200
Barium	0.000520	J	0.000360	0.00500
Beryllium	U		0.000120	0.00200
Calcium	U		0.0460	1.00
Cadmium	U		0.000160	0.00100
Cobalt	U		0.000260	0.00200
Chromium	U		0.000540	0.00200
Copper	U		0.000520	0.00500
Iron	U		0.0150	0.100
Potassium	U		0.0370	1.00
Magnesium	U		0.100	1.00
Sodium	U		0.110	1.00
Nickel	U		0.000350	0.00200
Lead	U		0.000240	0.00200
Antimony	U		0.000754	0.00200
Selenium	U		0.000380	0.00200
Thallium	U		0.000190	0.00200
Vanadium	U		0.000180	0.00500
Zinc	U		0.00256	0.0250

Laboratory Control Sample (LCS)

(LCS) R4227914-2 06/10/25 00:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver	0.0500	0.0519	104	80.0-120	
Arsenic	0.0500	0.0509	102	80.0-120	
Barium	0.0500	0.0495	98.9	80.0-120	
Beryllium	0.0500	0.0572	114	80.0-120	
Calcium	5.00	5.30	106	80.0-120	
Cadmium	0.0500	0.0538	108	80.0-120	
Cobalt	0.0500	0.0521	104	80.0-120	
Chromium	0.0500	0.0508	102	80.0-120	
Copper	0.0500	0.0497	99.4	80.0-120	
Iron	1.00	0.992	99.2	80.0-120	
Potassium	5.00	5.11	102	80.0-120	
Magnesium	5.00	5.28	106	80.0-120	
Sodium	5.00	5.15	103	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4227914-2 06/10/25 00:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nickel	0.0500	0.0527	105	80.0-120	
Lead	0.0500	0.0471	94.3	80.0-120	
Antimony	0.0500	0.0488	97.6	80.0-120	
Selenium	0.0500	0.0475	94.9	80.0-120	
Thallium	0.0500	0.0475	95.0	80.0-120	
Vanadium	0.0500	0.0500	99.9	80.0-120	
Zinc	0.0500	0.0523	105	80.0-120	

L1864089-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864089-09 06/10/25 00:36 • (MS) R4227914-4 06/10/25 00:42 • (MSD) R4227914-5 06/10/25 00:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver	0.0500	ND	0.0525	0.0515	105	103	1	75.0-125			1.76	20
Arsenic	0.0500	ND	0.0513	0.0501	101	99.3	1	75.0-125			2.21	20
Barium	0.0500	0.0166	0.0665	0.0663	99.8	99.4	1	75.0-125			0.313	20
Beryllium	0.0500	ND	0.0540	0.0513	108	103	1	75.0-125			5.02	20
Calcium	5.00	78.1	82.4	81.8	86.0	74.1	1	75.0-125		V	0.728	20
Cadmium	0.0500	ND	0.0529	0.0532	106	106	1	75.0-125			0.687	20
Cobalt	0.0500	ND	0.0510	0.0500	102	99.7	1	75.0-125			2.05	20
Chromium	0.0500	ND	0.0507	0.0506	101	101	1	75.0-125			0.295	20
Copper	0.0500	ND	0.0470	0.0470	94.1	93.9	1	75.0-125			0.179	20
Iron	1.00	0.285	1.28	1.26	99.0	97.7	1	75.0-125			1.05	20
Potassium	5.00	1.08	6.17	6.05	102	99.5	1	75.0-125			1.81	20
Magnesium	5.00	4.73	9.79	9.58	101	96.9	1	75.0-125			2.18	20
Sodium	5.00	3.73	9.53	8.55	116	96.4	1	75.0-125			10.8	20
Nickel	0.0500	ND	0.0504	0.0502	101	100	1	75.0-125			0.325	20
Lead	0.0500	ND	0.0470	0.0478	94.1	95.6	1	75.0-125			1.57	20
Antimony	0.0500	ND	0.0500	0.0493	100	98.6	1	75.0-125			1.38	20
Selenium	0.0500	ND	0.0491	0.0471	98.2	94.3	1	75.0-125			4.02	20
Thallium	0.0500	ND	0.0477	0.0482	95.3	96.4	1	75.0-125			1.11	20
Vanadium	0.0500	ND	0.0505	0.0499	99.1	97.9	1	75.0-125			1.21	20
Zinc	0.0500	ND	0.0522	0.0506	104	101	1	75.0-125			3.26	20

Method Blank (MB)

(MB) R4226423-2 06/05/25 15:27

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichloropropane	U		0.00200	0.00500
1,2-Dibromo-3-Chloropropane	U		0.000520	0.00500
1,2-Dibromoethane	U		0.00410	0.00500

Laboratory Control Sample (LCS)

(LCS) R4226423-1 06/05/25 15:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichloropropane	0.0500	0.0580	116	70.0-130	
1,2-Dibromo-3-Chloropropane	0.0500	0.0740	148	70.0-130	J4
1,2-Dibromoethane	0.0500	0.0530	106	70.0-130	

Method Blank (MB)

(MB) R4226698-3 06/05/25 10:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	U		0.0379	0.100
1,1,1-Trichloroethane	U		0.0369	0.100
1,1,2,2-Tetrachloroethane	U		0.0278	0.100
1,1,2-Trichloroethane	U		0.0239	0.100
1,1-Dichloroethane	U		0.0196	0.100
1,1-Dichloroethene	U		0.0242	0.100
1,2-Dichlorobenzene	U		0.0170	0.200
1,2-Dichloroethane	U		0.0260	0.100
1,2-Dichloropropane	U		0.0568	0.200
1,4-Dichlorobenzene	U		0.0280	0.200
2-Butanone (MEK)	U		2.54	4.00
2-Hexanone	U		0.134	1.00
4-Methyl-2-pentanone (MIBK)	U		0.0912	1.00
Acetone	U		1.46	2.00
Acrylonitrile	U		0.144	0.500
Benzene	U		0.0187	0.0400
Bromochloromethane	U		0.0226	0.200
Bromodichloromethane	U		0.0290	0.100
Bromoform	U		0.0468	1.00
Bromomethane	U		0.0788	0.500
Carbon disulfide	U		0.0280	0.500
Carbon tetrachloride	U		0.0359	0.200
Chlorobenzene	U		0.00840	0.100
Chlorodibromomethane	U		0.0245	0.100
Chloroethane	U		0.0680	0.200
Chloroform	0.259		0.0412	0.100
Chloromethane	U		0.174	0.500
Dibromomethane	U		0.0300	0.200
Ethylbenzene	U		0.0295	0.100
Iodomethane	0.111		0.0928	0.500
Methylene Chloride	U		0.266	1.00
Styrene	U		0.00916	0.500
Tetrachloroethene	U		0.0358	0.100
Toluene	U		0.0520	0.200
Trichloroethene	U		0.0234	0.0400
Trichlorofluoromethane	U		0.0331	0.100
Vinyl acetate	U		0.102	0.500
Vinyl chloride	U		0.0462	0.0500
Xylenes, Total	U		0.0352	0.260
cis-1,2-Dichloroethene	U		0.0294	0.100

Method Blank (MB)

(MB) R4226698-3 06/05/25 10:34

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,3-Dichloropropene	U		0.0303	0.100
trans-1,2-Dichloroethene	U		0.0416	0.200
trans-1,3-Dichloropropene	U		0.0456	0.200
trans-1,4-Dichloro-2-butene	U		0.0744	0.200
(S) 4-Bromofluorobenzene	*96.0*			*67.0-138*
(S) Toluene-d8	*98.1*			*75.0-131*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4226698-1 06/05/25 09:13 • (LCSD) R4226698-2 06/05/25 09:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	5.00	5.15	4.80	103	96.0	74.0-129			7.04	20
1,1,1-Trichloroethane	5.00	5.32	4.92	106	98.4	69.0-126			7.81	20
1,1,2,2-Tetrachloroethane	5.00	5.12	4.91	102	98.2	68.0-128			4.19	20
1,1,2-Trichloroethane	5.00	4.88	4.77	97.6	95.4	78.0-123			2.28	20
1,1-Dichloroethane	5.00	5.56	5.06	111	101	70.0-127			9.42	20
1,1-Dichloroethene	5.00	5.44	4.98	109	99.6	65.0-131			8.83	20
1,2-Dichlorobenzene	5.00	5.21	4.79	104	95.8	76.0-124			8.40	20
1,2-Dichloroethane	5.00	5.15	4.81	103	96.2	65.0-131			6.83	20
1,2-Dichloropropane	5.00	5.39	5.14	108	103	74.0-125			4.75	20
1,4-Dichlorobenzene	5.00	5.03	4.45	101	89.0	77.0-121			12.2	20
2-Butanone (MEK)	25.0	30.9	28.0	124	112	30.0-160			9.85	24
2-Hexanone	25.0	26.6	24.7	106	98.8	54.0-147			7.41	20
4-Methyl-2-pentanone (MIBK)	25.0	27.6	26.9	110	108	56.0-143			2.57	20
Acetone	25.0	27.7	24.8	111	99.2	10.0-160			11.0	31
Acrylonitrile	25.0	28.5	27.7	114	111	45.0-153			2.85	22
Benzene	5.00	5.35	4.75	107	95.0	70.0-123			11.9	20
Bromochloromethane	5.00	5.13	5.13	103	103	77.0-128			0.000	20
Bromodichloromethane	5.00	5.22	4.98	104	99.6	73.0-121			4.71	20
Bromoform	5.00	4.77	4.69	95.4	93.8	64.0-132			1.69	20
Bromomethane	5.00	3.54	3.16	70.8	63.2	56.0-147			11.3	20
Carbon disulfide	5.00	5.46	4.92	109	98.4	56.0-133			10.4	20
Carbon tetrachloride	5.00	6.41	5.83	128	117	66.0-128			9.48	20
Chlorobenzene	5.00	4.87	4.45	97.4	89.0	76.0-128			9.01	20
Chlorodibromomethane	5.00	5.02	4.81	100	96.2	74.0-127			4.27	20
Chloroethane	5.00	4.42	4.03	88.4	80.6	61.0-134			9.23	20
Chloroform	5.00	5.24	4.95	105	99.0	72.0-123			5.69	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4226698-1 06/05/25 09:13 • (LCSD) R4226698-2 06/05/25 09:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloromethane	5.00	4.58	4.14	91.6	82.8	51.0-138			10.1	20
Dibromomethane	5.00	5.31	5.08	106	102	75.0-122			4.43	20
Ethylbenzene	5.00	5.16	4.74	103	94.8	74.0-126			8.48	20
Iodomethane	25.0	26.6	25.4	106	102	74.0-134			4.62	20
Methylene Chloride	5.00	5.12	4.78	102	95.6	68.0-123			6.87	20
Styrene	5.00	5.55	5.12	111	102	72.0-127			8.06	20
Tetrachloroethene	5.00	4.97	4.57	99.4	91.4	70.0-136			8.39	20
Toluene	5.00	4.95	4.52	99.0	90.4	75.0-121			9.08	20
Trichloroethene	5.00	5.08	4.70	102	94.0	76.0-126			7.77	20
Trichlorofluoromethane	5.00	5.03	4.52	101	90.4	61.0-142			10.7	20
Vinyl acetate	25.0	33.0	30.9	132	124	43.0-159			6.57	20
Vinyl chloride	5.00	4.78	4.41	95.6	88.2	63.0-134			8.05	20
Xylenes, Total	15.0	14.9	14.4	99.3	96.0	72.0-127			3.41	20
cis-1,2-Dichloroethene	5.00	5.05	4.73	101	94.6	73.0-125			6.54	20
cis-1,3-Dichloropropene	5.00	5.43	4.99	109	99.8	76.0-127			8.45	20
trans-1,2-Dichloroethene	5.00	5.10	4.63	102	92.6	71.0-125			9.66	20
trans-1,3-Dichloropropene	5.00	5.34	5.06	107	101	73.0-127			5.38	20
trans-1,4-Dichloro-2-butene	5.00	4.95	4.57	99.0	91.4	45.0-143			7.98	20
(S) 4-Bromofluorobenzene				*97.3*	*99.9*	*67.0-138*				
(S) Toluene-d8				*98.5*	*97.4*	*75.0-131*				
(S) 1,2-Dichloroethane-d4				*108*	*107*	*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Report to: **Aaron Rebmann 763-479-5185**

Email To: **chris.kaiser@stantec.com;cory.anderson2@stan**

Project Description: **GU-VIII-1 Background**

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # **200**

Lab Project # **WMCENIA-00010**

Collected by (print): Nic Hurer

Site/Facility ID # **IA02**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK,CL,SO4 125mlHDPE-NoPres	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	TDS 1L-HDPE NoPres	TSS 1L-HDPE NoPres	V524LL 40mlAmb-AscAcid+HCl	V524LL 40mlAmb-HCl-Blk	V8260ULL 40mlAmb-HCl	V8260ULL 40mlAmb-HCl-Blk		Remarks	Sample # (lab only)
								<2	<2									
Trip Blank		GW		5/29/25		2							X		X			-01
GU-VIII-1		GW		↓	1300	11	X	X	X	X	X	X		X				-02

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1864637
H043

Acctnum: **WMCENIA**
Template: **T237451**
Prelogin: **P1140076**
PM: **3564 - Chad A Upchurch**
PB: LU 3/21/25
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4439 2446 2141

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes) / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	5/29/25	1500	Fed Ex	2	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 7.4/9 °C Bottles Received: 2.4+0.4=2.8 11	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/30/25 Time: 900	Hold: Condition: NCF / (OK)

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Site Name: CDS

Sample I.D. GU-VIII-1

Laboratory Use Only / Lab I.D.: L1864637

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D (D - Direct, I - Indirect, V - Visual)

Sampling Equipment: S (D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other)

Sample Type: G (Grab / Composite) (circle one)

Field Measurements

Sample Date MM/DD/YYYY	Sample Time 24 Hr. Clock	pH (std. Units)	CONDUCTIVITY (umhos/cm @ 25°C)	Temp °C	TURBIDITY (NTUs)	DO mg/L - ppm	eH/ORP (std. Units)
05/29/2025	1300	7.24	2295	16.1	1.0	0.1	191

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: _____ Color: _____ Other: _____

Sheen Present [Y] or [N] Foam Present: [Y] or [N] Floating Solids: [Y] or [N]

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: _____ Precipitation: [Y] or [N]

Specific Comments: _____

Date	Name	Signature	Company
/ /			
/ /			

ANALYTICAL REPORT

December 03, 2025

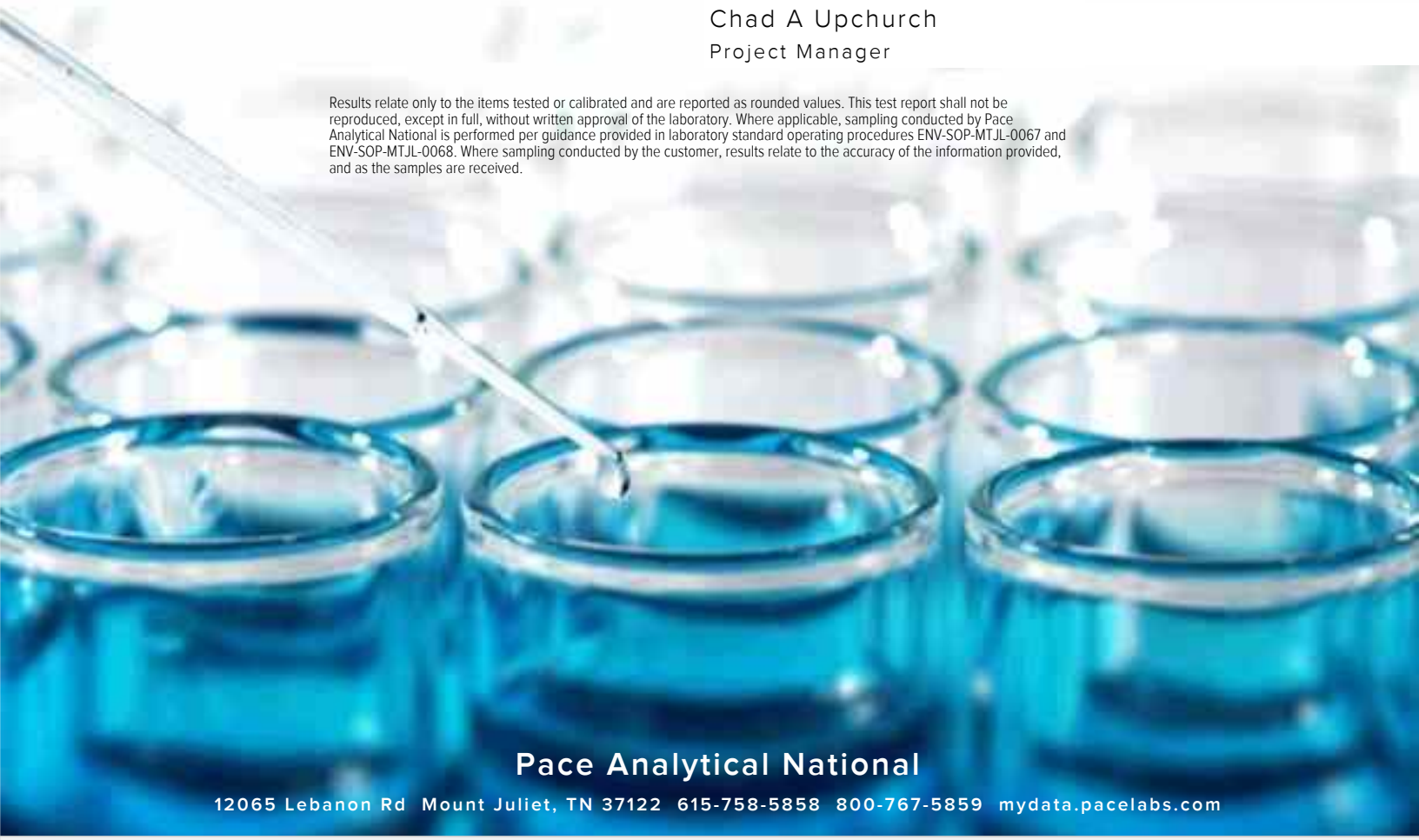
Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1914825
Samples Received:	11/05/2025
Project Number:	200
Description:	Background Monitoring
Site:	IA02
Report To:	George Fletcher 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MW-134 L1914825-01

Collected by: Kenneth Smith | Collected date/time: 11/04/25 13:00 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634689	1	11/06/25 00:26	11/06/25 07:54	BDC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636253	1	11/10/25 08:37	11/10/25 08:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2635015	1	11/07/25 15:41	11/07/25 15:41	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634455	1	11/05/25 19:21	11/05/25 19:21	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634114	5	11/10/25 21:45	11/10/25 21:45	TRL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634114	50	11/10/25 21:57	11/10/25 21:57	TRL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2634869	1	11/07/25 04:13	11/29/25 18:46	TMT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2635004	1	11/11/25 14:22	11/11/25 14:22	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2636121	1	11/08/25 06:23	11/08/25 06:23	AV	Mt. Juliet, TN

MW-135 L1914825-02

Collected by: Kenneth Smith | Collected date/time: 11/04/25 12:00 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634689	1	11/06/25 00:26	11/06/25 07:54	BDC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636253	1	11/10/25 08:37	11/10/25 08:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2635015	1	11/07/25 15:45	11/07/25 15:45	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634455	1	11/05/25 19:23	11/05/25 19:23	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634114	1	11/10/25 22:32	11/10/25 22:32	TRL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2634869	1	11/07/25 04:13	11/29/25 20:07	TMT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2635004	1	11/11/25 14:43	11/11/25 14:43	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2636121	1	11/08/25 06:42	11/08/25 06:42	AV	Mt. Juliet, TN

MW-136 L1914825-03

Collected by: Kenneth Smith | Collected date/time: 11/04/25 12:23 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634689	1	11/06/25 00:26	11/06/25 07:54	BDC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636253	1	11/10/25 08:37	11/10/25 08:41	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2635015	1	11/07/25 15:49	11/07/25 15:49	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634455	1	11/05/25 19:33	11/05/25 19:33	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634114	1	11/10/25 22:56	11/10/25 22:56	TRL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634114	5	11/10/25 23:08	11/10/25 23:08	TRL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2634869	1	11/07/25 04:13	11/29/25 20:10	TMT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2635004	1	11/11/25 15:04	11/11/25 15:04	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2636121	1	11/08/25 07:01	11/08/25 07:01	AV	Mt. Juliet, TN

Trip Blank L1914825-04

Collected by: Kenneth Smith | Collected date/time: 11/04/25 00:00 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2635004	1	11/11/25 14:01	11/11/25 14:01	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2636995	1	11/09/25 12:55	11/09/25 12:55	JBE	Mt. Juliet, TN

MW-11R L1914825-05

Collected by: Kenneth Smith | Collected date/time: 11/03/25 12:22 | Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2634689	1	11/06/25 00:26	11/06/25 07:54	BDC	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2636250	1	11/09/25 17:37	11/09/25 17:59	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2635035	1	11/07/25 14:44	11/07/25 14:44	RJP	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2634455	1	11/05/25 19:35	11/05/25 19:35	RTW	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

SAMPLE SUMMARY

MW-11R L1914825-05

Collected by: Kenneth Smith
Collected date/time: 11/03/25 12:22
Received date/time: 11/05/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG2634114	1	11/10/25 23:19	11/10/25 23:19	TRL	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2634114	10	11/10/25 23:31	11/10/25 23:31	TRL	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2634869	1	11/07/25 04:13	11/29/25 20:13	TMT	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2635004	1	11/11/25 15:25	11/11/25 15:25	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2636995	1	11/09/25 13:15	11/09/25 13:15	JBE	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Gravimetric Analysis by Method 2540 D-2011

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2636250	(DUP) R4299230-4	Suspended Solids

Wet Chemistry by Method 9056A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2634114	(MS) R4299152-7	Sulfate

Metals (ICPMS) by Method 6020

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2634869	(MSD) R4307656-5, L1914825-01	Calcium and Sodium

The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

Batch	Lab Sample ID	Analytes
WG2634869	L1914825-01	Barium

Volatile Organic Compounds (GC/MS) by Method 8260B

The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.

Batch	Lab Sample ID	Analytes
WG2636121	L1914825-01	Acetone
WG2636995	L1914825-04	Acetone

Volatile Organic Compounds (GC/MS) by Method 8260B

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2636121	L1914825-01	trans-1,4-Dichloro-2-butene, Trichlorofluoromethane and Vinyl chloride
WG2636121	L1914825-02	trans-1,4-Dichloro-2-butene, Trichlorofluoromethane and Vinyl chloride
WG2636121	L1914825-03	trans-1,4-Dichloro-2-butene, Trichlorofluoromethane and Vinyl chloride
WG2636995	L1914825-04	Bromoform and Tetrachloroethene
WG2636995	L1914825-05	Bromoform and Tetrachloroethene

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2636121	(LCSD) R4299375-2, L1914825-01, 02, 03	Acetone

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2636121	(LCSD) R4299375-2, L1914825-01, 02, 03	trans-1,4-Dichloro-2-butene

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth To Water (onsite)	30.4	su
pH (On Site)	7.8	su
Specific Conductance (on site)	1897	umhos/cm
Temperature (on-site)	13.5	Deg. C
Turbidity (on-site)	40	NTU

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1310		10.0	1	11/06/2025 07:54	WG2634689

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	64.0		4.00	1	11/10/2025 08:41	WG2636253

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	469		20.0	1	11/07/2025 15:41	WG2635015

Sample Narrative:

L1914825-01 WG2635015: Endpoint pH 4.5

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.780		0.100	1	11/05/2025 19:21	WG2634455

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	5.36		1.00	5	11/10/2025 21:45	WG2634114
Sulfate	548		5.00	50	11/10/2025 21:57	WG2634114

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.00200	1	11/29/2025 18:46	WG2634869
Arsenic	0.0360		0.00200	1	11/29/2025 18:46	WG2634869
Barium	0.0264	O1	0.00500	1	11/29/2025 18:46	WG2634869
Beryllium	ND		0.00200	1	11/29/2025 18:46	WG2634869
Calcium	238	V	1.00	1	11/29/2025 18:46	WG2634869
Cadmium	ND		0.00100	1	11/29/2025 18:46	WG2634869
Cobalt	ND		0.00200	1	11/29/2025 18:46	WG2634869
Chromium	ND		0.00200	1	11/29/2025 18:46	WG2634869
Copper	ND		0.00500	1	11/29/2025 18:46	WG2634869
Iron	5.39		0.100	1	11/29/2025 18:46	WG2634869
Potassium	11.0		1.00	1	11/29/2025 18:46	WG2634869
Magnesium	66.1		1.00	1	11/29/2025 18:46	WG2634869
Sodium	117	V	1.00	1	11/29/2025 18:46	WG2634869
Nickel	ND		0.00200	1	11/29/2025 18:46	WG2634869
Lead	ND		0.00200	1	11/29/2025 18:46	WG2634869

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00200	1	11/29/2025 18:46	WG2634869
Selenium	ND		0.00200	1	11/29/2025 18:46	WG2634869
Thallium	ND		0.00200	1	11/29/2025 18:46	WG2634869
Vanadium	ND		0.00500	1	11/29/2025 18:46	WG2634869
Zinc	ND		0.0250	1	11/29/2025 18:46	WG2634869

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/08/2025 06:23	WG2636121
1,2,3-Trichloropropane	ND		0.00580	1	11/11/2025 14:22	WG2635004
1,1,1-Trichloroethane	ND		1.00	1	11/08/2025 06:23	WG2636121
1,2-Dibromo-3-Chloropropane	ND		0.200	1	11/11/2025 14:22	WG2635004
1,1,2,2-Tetrachloroethane	ND		0.300	1	11/08/2025 06:23	WG2636121
1,2-Dibromoethane	ND		0.0500	1	11/11/2025 14:22	WG2635004
1,1,2-Trichloroethane	ND		1.00	1	11/08/2025 06:23	WG2636121
1,1-Dichloroethane	ND		1.00	1	11/08/2025 06:23	WG2636121
1,1-Dichloroethene	ND		1.00	1	11/08/2025 06:23	WG2636121
1,2-Dichlorobenzene	ND		1.00	1	11/08/2025 06:23	WG2636121
1,2-Dichloroethane	ND		1.00	1	11/08/2025 06:23	WG2636121
1,2-Dichloropropane	ND		1.00	1	11/08/2025 06:23	WG2636121
1,4-Dichlorobenzene	ND		1.00	1	11/08/2025 06:23	WG2636121
2-Butanone (MEK)	ND		10.0	1	11/08/2025 06:23	WG2636121
2-Hexanone	ND		5.00	1	11/08/2025 06:23	WG2636121
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	11/08/2025 06:23	WG2636121
Acetone	ND	C5 J4	25.0	1	11/08/2025 06:23	WG2636121
Acrylonitrile	ND		0.320	1	11/08/2025 06:23	WG2636121
Benzene	ND		1.00	1	11/08/2025 06:23	WG2636121
Bromochloromethane	ND		1.00	1	11/08/2025 06:23	WG2636121
Bromodichloromethane	ND		1.00	1	11/08/2025 06:23	WG2636121
Bromoform	ND		1.00	1	11/08/2025 06:23	WG2636121
Bromomethane	ND		2.50	1	11/08/2025 06:23	WG2636121
Carbon disulfide	ND		1.00	1	11/08/2025 06:23	WG2636121
Carbon tetrachloride	ND		1.00	1	11/08/2025 06:23	WG2636121
Chlorobenzene	ND		1.00	1	11/08/2025 06:23	WG2636121
Chlorodibromomethane	ND		1.00	1	11/08/2025 06:23	WG2636121
Chloroethane	ND		2.50	1	11/08/2025 06:23	WG2636121
Chloroform	ND		1.00	1	11/08/2025 06:23	WG2636121
Chloromethane	ND		1.25	1	11/08/2025 06:23	WG2636121
Dibromomethane	ND		1.00	1	11/08/2025 06:23	WG2636121
Ethylbenzene	ND		1.00	1	11/08/2025 06:23	WG2636121
Iodomethane	ND		10.0	1	11/08/2025 06:23	WG2636121
Methylene Chloride	ND		2.50	1	11/08/2025 06:23	WG2636121
Styrene	ND		1.00	1	11/08/2025 06:23	WG2636121
Tetrachloroethene	ND		1.00	1	11/08/2025 06:23	WG2636121
Toluene	ND		1.00	1	11/08/2025 06:23	WG2636121
Trichloroethene	ND		1.00	1	11/08/2025 06:23	WG2636121
Trichlorofluoromethane	ND	C3	2.50	1	11/08/2025 06:23	WG2636121
Vinyl acetate	ND		5.00	1	11/08/2025 06:23	WG2636121
Vinyl chloride	ND	C3	1.00	1	11/08/2025 06:23	WG2636121
Xylenes, Total	ND		1.50	1	11/08/2025 06:23	WG2636121
cis-1,2-Dichloroethene	ND		1.00	1	11/08/2025 06:23	WG2636121
cis-1,3-Dichloropropene	ND		1.00	1	11/08/2025 06:23	WG2636121
trans-1,2-Dichloroethene	ND		1.00	1	11/08/2025 06:23	WG2636121
trans-1,3-Dichloropropene	ND		1.00	1	11/08/2025 06:23	WG2636121
trans-1,4-Dichloro-2-butene	ND	C3 J3	1.00	1	11/08/2025 06:23	WG2636121

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*	*11/08/2025 06:23*	WG2636121
(S) Toluene-d8	*100*			*75.0-131*	*11/08/2025 06:23*	WG2636121
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*	*11/08/2025 06:23*	WG2636121

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth To Water (onsite)	47.7	su
pH (On Site)	7.95	su
Specific Conductance (on site)	939	umhos/cm
Temperature (on-site)	9.8	Deg. C
Turbidity (on-site)	21	NTU

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	533		10.0	1	11/06/2025 07:54	WG2634689

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	40.2		4.00	1	11/10/2025 08:41	WG2636253

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	370		20.0	1	11/07/2025 15:45	WG2635015

Sample Narrative:

L1914825-02 WG2635015: Endpoint pH 4.5

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	ND		0.100	1	11/05/2025 19:23	WG2634455

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	17.4		1.00	1	11/10/2025 22:32	WG2634114
Sulfate	82.9		5.00	1	11/10/2025 22:32	WG2634114

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.00200	1	11/29/2025 20:07	WG2634869
Arsenic	ND		0.00200	1	11/29/2025 20:07	WG2634869
Barium	0.119		0.00500	1	11/29/2025 20:07	WG2634869
Beryllium	ND		0.00200	1	11/29/2025 20:07	WG2634869
Calcium	101		1.00	1	11/29/2025 20:07	WG2634869
Cadmium	ND		0.00100	1	11/29/2025 20:07	WG2634869
Cobalt	ND		0.00200	1	11/29/2025 20:07	WG2634869
Chromium	ND		0.00200	1	11/29/2025 20:07	WG2634869
Copper	ND		0.00500	1	11/29/2025 20:07	WG2634869
Iron	0.146		0.100	1	11/29/2025 20:07	WG2634869
Potassium	7.45		1.00	1	11/29/2025 20:07	WG2634869
Magnesium	36.9		1.00	1	11/29/2025 20:07	WG2634869
Sodium	41.5		1.00	1	11/29/2025 20:07	WG2634869
Nickel	ND		0.00200	1	11/29/2025 20:07	WG2634869
Lead	ND		0.00200	1	11/29/2025 20:07	WG2634869

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00200	1	11/29/2025 20:07	WG2634869
Selenium	ND		0.00200	1	11/29/2025 20:07	WG2634869
Thallium	ND		0.00200	1	11/29/2025 20:07	WG2634869
Vanadium	ND		0.00500	1	11/29/2025 20:07	WG2634869
Zinc	ND		0.0250	1	11/29/2025 20:07	WG2634869

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/08/2025 06:42	WG2636121
1,2,3-Trichloropropane	ND		0.00580	1	11/11/2025 14:43	WG2635004
1,1,1-Trichloroethane	ND		1.00	1	11/08/2025 06:42	WG2636121
1,2-Dibromo-3-Chloropropane	ND		0.200	1	11/11/2025 14:43	WG2635004
1,1,2,2-Tetrachloroethane	ND		0.300	1	11/08/2025 06:42	WG2636121
1,2-Dibromoethane	ND		0.0500	1	11/11/2025 14:43	WG2635004
1,1,2-Trichloroethane	ND		1.00	1	11/08/2025 06:42	WG2636121
1,1-Dichloroethane	ND		1.00	1	11/08/2025 06:42	WG2636121
1,1-Dichloroethene	ND		1.00	1	11/08/2025 06:42	WG2636121
1,2-Dichlorobenzene	ND		1.00	1	11/08/2025 06:42	WG2636121
1,2-Dichloroethane	ND		1.00	1	11/08/2025 06:42	WG2636121
1,2-Dichloropropane	ND		1.00	1	11/08/2025 06:42	WG2636121
1,4-Dichlorobenzene	ND		1.00	1	11/08/2025 06:42	WG2636121
2-Butanone (MEK)	ND		10.0	1	11/08/2025 06:42	WG2636121
2-Hexanone	ND		5.00	1	11/08/2025 06:42	WG2636121
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	11/08/2025 06:42	WG2636121
Acetone	ND	J4	25.0	1	11/08/2025 06:42	WG2636121
Acrylonitrile	ND		0.320	1	11/08/2025 06:42	WG2636121
Benzene	ND		1.00	1	11/08/2025 06:42	WG2636121
Bromochloromethane	ND		1.00	1	11/08/2025 06:42	WG2636121
Bromodichloromethane	ND		1.00	1	11/08/2025 06:42	WG2636121
Bromoform	ND		1.00	1	11/08/2025 06:42	WG2636121
Bromomethane	ND		2.50	1	11/08/2025 06:42	WG2636121
Carbon disulfide	ND		1.00	1	11/08/2025 06:42	WG2636121
Carbon tetrachloride	ND		1.00	1	11/08/2025 06:42	WG2636121
Chlorobenzene	ND		1.00	1	11/08/2025 06:42	WG2636121
Chlorodibromomethane	ND		1.00	1	11/08/2025 06:42	WG2636121
Chloroethane	ND		2.50	1	11/08/2025 06:42	WG2636121
Chloroform	ND		1.00	1	11/08/2025 06:42	WG2636121
Chloromethane	ND		1.25	1	11/08/2025 06:42	WG2636121
Dibromomethane	ND		1.00	1	11/08/2025 06:42	WG2636121
Ethylbenzene	ND		1.00	1	11/08/2025 06:42	WG2636121
Iodomethane	ND		10.0	1	11/08/2025 06:42	WG2636121
Methylene Chloride	ND		2.50	1	11/08/2025 06:42	WG2636121
Styrene	ND		1.00	1	11/08/2025 06:42	WG2636121
Tetrachloroethene	ND		1.00	1	11/08/2025 06:42	WG2636121
Toluene	ND		1.00	1	11/08/2025 06:42	WG2636121
Trichloroethene	ND		1.00	1	11/08/2025 06:42	WG2636121
Trichlorofluoromethane	ND	C3	2.50	1	11/08/2025 06:42	WG2636121
Vinyl acetate	ND		5.00	1	11/08/2025 06:42	WG2636121
Vinyl chloride	ND	C3	1.00	1	11/08/2025 06:42	WG2636121
Xylenes, Total	ND		1.50	1	11/08/2025 06:42	WG2636121
cis-1,2-Dichloroethene	ND		1.00	1	11/08/2025 06:42	WG2636121
cis-1,3-Dichloropropene	ND		1.00	1	11/08/2025 06:42	WG2636121
trans-1,2-Dichloroethene	ND		1.00	1	11/08/2025 06:42	WG2636121
trans-1,3-Dichloropropene	ND		1.00	1	11/08/2025 06:42	WG2636121
trans-1,4-Dichloro-2-butene	ND	C3 J3	1.00	1	11/08/2025 06:42	WG2636121

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*103*			*67.0-138*	*11/08/2025 06:42*	WG2636121
(S) Toluene-d8	*100*			*75.0-131*	*11/08/2025 06:42*	WG2636121
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*	*11/08/2025 06:42*	WG2636121

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth To Water (onsite)	44.47	su
pH (On Site)	7.37	su
Specific Conductance (on site)	994	umhos/cm
Temperature (on-site)	11.5	Deg. C
Turbidity (on-site)	18.2	NTU

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	640		10.0	1	11/06/2025 07:54	WG2634689

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	8.60		4.00	1	11/10/2025 08:41	WG2636253

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	474		20.0	1	11/07/2025 15:49	WG2635015

Sample Narrative:

L1914825-03 WG2635015: Endpoint pH 4.5

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.429		0.100	1	11/05/2025 19:33	WG2634455

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	3.23		1.00	1	11/10/2025 22:56	WG2634114
Sulfate	128		5.00	5	11/10/2025 23:08	WG2634114

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.00200	1	11/29/2025 20:10	WG2634869
Arsenic	0.00787		0.00200	1	11/29/2025 20:10	WG2634869
Barium	0.117		0.00500	1	11/29/2025 20:10	WG2634869
Beryllium	ND		0.00200	1	11/29/2025 20:10	WG2634869
Calcium	134		1.00	1	11/29/2025 20:10	WG2634869
Cadmium	ND		0.00100	1	11/29/2025 20:10	WG2634869
Cobalt	ND		0.00200	1	11/29/2025 20:10	WG2634869
Chromium	ND		0.00200	1	11/29/2025 20:10	WG2634869
Copper	ND		0.00500	1	11/29/2025 20:10	WG2634869
Iron	0.100		0.100	1	11/29/2025 20:10	WG2634869
Potassium	7.70		1.00	1	11/29/2025 20:10	WG2634869
Magnesium	38.5		1.00	1	11/29/2025 20:10	WG2634869
Sodium	50.5		1.00	1	11/29/2025 20:10	WG2634869
Nickel	ND		0.00200	1	11/29/2025 20:10	WG2634869
Lead	ND		0.00200	1	11/29/2025 20:10	WG2634869

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00200	1	11/29/2025 20:10	WG2634869
Selenium	ND		0.00200	1	11/29/2025 20:10	WG2634869
Thallium	ND		0.00200	1	11/29/2025 20:10	WG2634869
Vanadium	ND		0.00500	1	11/29/2025 20:10	WG2634869
Zinc	ND		0.0250	1	11/29/2025 20:10	WG2634869

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/08/2025 07:01	WG2636121
1,2,3-Trichloropropane	ND		0.00580	1	11/11/2025 15:04	WG2635004
1,1,1-Trichloroethane	ND		1.00	1	11/08/2025 07:01	WG2636121
1,2-Dibromo-3-Chloropropane	ND		0.200	1	11/11/2025 15:04	WG2635004
1,1,2,2-Tetrachloroethane	ND		0.300	1	11/08/2025 07:01	WG2636121
1,2-Dibromoethane	ND		0.0500	1	11/11/2025 15:04	WG2635004
1,1,2-Trichloroethane	ND		1.00	1	11/08/2025 07:01	WG2636121
1,1-Dichloroethane	ND		1.00	1	11/08/2025 07:01	WG2636121
1,1-Dichloroethene	ND		1.00	1	11/08/2025 07:01	WG2636121
1,2-Dichlorobenzene	ND		1.00	1	11/08/2025 07:01	WG2636121
1,2-Dichloroethane	ND		1.00	1	11/08/2025 07:01	WG2636121
1,2-Dichloropropane	ND		1.00	1	11/08/2025 07:01	WG2636121
1,4-Dichlorobenzene	ND		1.00	1	11/08/2025 07:01	WG2636121
2-Butanone (MEK)	ND		10.0	1	11/08/2025 07:01	WG2636121
2-Hexanone	ND		5.00	1	11/08/2025 07:01	WG2636121
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	11/08/2025 07:01	WG2636121
Acetone	ND	J4	25.0	1	11/08/2025 07:01	WG2636121
Acrylonitrile	ND		0.320	1	11/08/2025 07:01	WG2636121
Benzene	ND		1.00	1	11/08/2025 07:01	WG2636121
Bromochloromethane	ND		1.00	1	11/08/2025 07:01	WG2636121
Bromodichloromethane	ND		1.00	1	11/08/2025 07:01	WG2636121
Bromoform	ND		1.00	1	11/08/2025 07:01	WG2636121
Bromomethane	ND		2.50	1	11/08/2025 07:01	WG2636121
Carbon disulfide	ND		1.00	1	11/08/2025 07:01	WG2636121
Carbon tetrachloride	ND		1.00	1	11/08/2025 07:01	WG2636121
Chlorobenzene	ND		1.00	1	11/08/2025 07:01	WG2636121
Chlorodibromomethane	ND		1.00	1	11/08/2025 07:01	WG2636121
Chloroethane	ND		2.50	1	11/08/2025 07:01	WG2636121
Chloroform	ND		1.00	1	11/08/2025 07:01	WG2636121
Chloromethane	ND		1.25	1	11/08/2025 07:01	WG2636121
Dibromomethane	ND		1.00	1	11/08/2025 07:01	WG2636121
Ethylbenzene	ND		1.00	1	11/08/2025 07:01	WG2636121
Iodomethane	ND		10.0	1	11/08/2025 07:01	WG2636121
Methylene Chloride	ND		2.50	1	11/08/2025 07:01	WG2636121
Styrene	ND		1.00	1	11/08/2025 07:01	WG2636121
Tetrachloroethene	ND		1.00	1	11/08/2025 07:01	WG2636121
Toluene	ND		1.00	1	11/08/2025 07:01	WG2636121
Trichloroethene	ND		1.00	1	11/08/2025 07:01	WG2636121
Trichlorofluoromethane	ND	C3	2.50	1	11/08/2025 07:01	WG2636121
Vinyl acetate	ND		5.00	1	11/08/2025 07:01	WG2636121
Vinyl chloride	ND	C3	1.00	1	11/08/2025 07:01	WG2636121
Xylenes, Total	ND		1.50	1	11/08/2025 07:01	WG2636121
cis-1,2-Dichloroethene	ND		1.00	1	11/08/2025 07:01	WG2636121
cis-1,3-Dichloropropene	ND		1.00	1	11/08/2025 07:01	WG2636121
trans-1,2-Dichloroethene	ND		1.00	1	11/08/2025 07:01	WG2636121
trans-1,3-Dichloropropene	ND		1.00	1	11/08/2025 07:01	WG2636121
trans-1,4-Dichloro-2-butene	ND	C3 J3	1.00	1	11/08/2025 07:01	WG2636121

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*101*			*67.0-138*	*11/08/2025 07:01*	WG2636121
(S) Toluene-d8	*98.4*			*75.0-131*	*11/08/2025 07:01*	WG2636121
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*	*11/08/2025 07:01*	WG2636121

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/09/2025 12:55	WG2636995
1,2,3-Trichloropropane	ND		0.00580	1	11/11/2025 14:01	WG2635004
1,1,1-Trichloroethane	ND		1.00	1	11/09/2025 12:55	WG2636995
1,2-Dibromo-3-Chloropropane	ND		0.200	1	11/11/2025 14:01	WG2635004
1,1,2,2-Tetrachloroethane	ND		0.300	1	11/09/2025 12:55	WG2636995
1,2-Dibromoethane	ND		0.0500	1	11/11/2025 14:01	WG2635004
1,1,2-Trichloroethane	ND		1.00	1	11/09/2025 12:55	WG2636995
1,1-Dichloroethane	ND		1.00	1	11/09/2025 12:55	WG2636995
1,1-Dichloroethene	ND		1.00	1	11/09/2025 12:55	WG2636995
1,2-Dichlorobenzene	ND		1.00	1	11/09/2025 12:55	WG2636995
1,2-Dichloroethane	ND		1.00	1	11/09/2025 12:55	WG2636995
1,2-Dichloropropane	ND		1.00	1	11/09/2025 12:55	WG2636995
1,4-Dichlorobenzene	ND		1.00	1	11/09/2025 12:55	WG2636995
2-Butanone (MEK)	ND		10.0	1	11/09/2025 12:55	WG2636995
2-Hexanone	ND		5.00	1	11/09/2025 12:55	WG2636995
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	11/09/2025 12:55	WG2636995
Acetone	ND	C5	25.0	1	11/09/2025 12:55	WG2636995
Acrylonitrile	ND		0.320	1	11/09/2025 12:55	WG2636995
Benzene	ND		1.00	1	11/09/2025 12:55	WG2636995
Bromochloromethane	ND		1.00	1	11/09/2025 12:55	WG2636995
Bromodichloromethane	ND		1.00	1	11/09/2025 12:55	WG2636995
Bromoform	ND	C3	1.00	1	11/09/2025 12:55	WG2636995
Bromomethane	ND		2.50	1	11/09/2025 12:55	WG2636995
Carbon disulfide	ND		1.00	1	11/09/2025 12:55	WG2636995
Carbon tetrachloride	ND		1.00	1	11/09/2025 12:55	WG2636995
Chlorobenzene	ND		1.00	1	11/09/2025 12:55	WG2636995
Chlorodibromomethane	ND		1.00	1	11/09/2025 12:55	WG2636995
Chloroethane	ND		2.50	1	11/09/2025 12:55	WG2636995
Chloroform	ND		1.00	1	11/09/2025 12:55	WG2636995
Chloromethane	ND		1.25	1	11/09/2025 12:55	WG2636995
Dibromomethane	ND		1.00	1	11/09/2025 12:55	WG2636995
Ethylbenzene	ND		1.00	1	11/09/2025 12:55	WG2636995
Iodomethane	ND		10.0	1	11/09/2025 12:55	WG2636995
Methylene Chloride	ND		2.50	1	11/09/2025 12:55	WG2636995
Styrene	ND		1.00	1	11/09/2025 12:55	WG2636995
Tetrachloroethene	ND	C3	1.00	1	11/09/2025 12:55	WG2636995
Toluene	ND		1.00	1	11/09/2025 12:55	WG2636995
Trichloroethene	ND		1.00	1	11/09/2025 12:55	WG2636995
Trichlorofluoromethane	ND		2.50	1	11/09/2025 12:55	WG2636995
Vinyl acetate	ND		5.00	1	11/09/2025 12:55	WG2636995
Vinyl chloride	ND		1.00	1	11/09/2025 12:55	WG2636995
Xylenes, Total	ND		1.50	1	11/09/2025 12:55	WG2636995
cis-1,2-Dichloroethene	ND		1.00	1	11/09/2025 12:55	WG2636995
cis-1,3-Dichloropropene	ND		1.00	1	11/09/2025 12:55	WG2636995
trans-1,2-Dichloroethene	ND		1.00	1	11/09/2025 12:55	WG2636995
trans-1,3-Dichloropropene	ND		1.00	1	11/09/2025 12:55	WG2636995
trans-1,4-Dichloro-2-butene	ND		1.00	1	11/09/2025 12:55	WG2636995
(S) 4-Bromofluorobenzene	*94.2*			*67.0-138*	*11/09/2025 12:55*	WG2636995
(S) Toluene-d8	*97.1*			*75.0-131*	*11/09/2025 12:55*	WG2636995
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*	*11/09/2025 12:55*	WG2636995

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth To Water (onsite)	50.19	su
pH (On Site)	7.24	su
Specific Conductance (on site)	1098	umhos/cm
Temperature (on-site)	10.2	Deg. C
Turbidity (on-site)	15.7	NTU

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	779		10.0	1	11/06/2025 07:54	WG2634689

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	8.00		4.00	1	11/09/2025 17:59	WG2636250

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	408		20.0	1	11/07/2025 14:44	WG2635035

Sample Narrative:

L1914825-05 WG2635035: Endpoint pH 4.5

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	0.730		0.100	1	11/05/2025 19:35	WG2634455

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	2.68		1.00	1	11/10/2025 23:19	WG2634114
Sulfate	233		5.00	10	11/10/2025 23:31	WG2634114

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.00200	1	11/29/2025 20:13	WG2634869
Arsenic	0.0272		0.00200	1	11/29/2025 20:13	WG2634869
Barium	0.101		0.00500	1	11/29/2025 20:13	WG2634869
Beryllium	ND		0.00200	1	11/29/2025 20:13	WG2634869
Calcium	158		1.00	1	11/29/2025 20:13	WG2634869
Cadmium	ND		0.00100	1	11/29/2025 20:13	WG2634869
Cobalt	ND		0.00200	1	11/29/2025 20:13	WG2634869
Chromium	ND		0.00200	1	11/29/2025 20:13	WG2634869
Copper	ND		0.00500	1	11/29/2025 20:13	WG2634869
Iron	0.532		0.100	1	11/29/2025 20:13	WG2634869
Potassium	8.04		1.00	1	11/29/2025 20:13	WG2634869
Magnesium	43.9		1.00	1	11/29/2025 20:13	WG2634869
Sodium	47.3		1.00	1	11/29/2025 20:13	WG2634869
Nickel	0.00408		0.00200	1	11/29/2025 20:13	WG2634869
Lead	ND		0.00200	1	11/29/2025 20:13	WG2634869

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Antimony	ND		0.00200	1	11/29/2025 20:13	WG2634869
Selenium	ND		0.00200	1	11/29/2025 20:13	WG2634869
Thallium	ND		0.00200	1	11/29/2025 20:13	WG2634869
Vanadium	ND		0.00500	1	11/29/2025 20:13	WG2634869
Zinc	ND		0.0250	1	11/29/2025 20:13	WG2634869

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/09/2025 13:15	WG2636995
1,2,3-Trichloropropane	ND		0.00580	1	11/11/2025 15:25	WG2635004
1,1,1-Trichloroethane	ND		1.00	1	11/09/2025 13:15	WG2636995
1,2-Dibromo-3-Chloropropane	ND		0.200	1	11/11/2025 15:25	WG2635004
1,1,2,2-Tetrachloroethane	ND		0.300	1	11/09/2025 13:15	WG2636995
1,2-Dibromoethane	ND		0.0500	1	11/11/2025 15:25	WG2635004
1,1,2-Trichloroethane	ND		1.00	1	11/09/2025 13:15	WG2636995
1,1-Dichloroethane	ND		1.00	1	11/09/2025 13:15	WG2636995
1,1-Dichloroethene	ND		1.00	1	11/09/2025 13:15	WG2636995
1,2-Dichlorobenzene	ND		1.00	1	11/09/2025 13:15	WG2636995
1,2-Dichloroethane	ND		1.00	1	11/09/2025 13:15	WG2636995
1,2-Dichloropropane	ND		1.00	1	11/09/2025 13:15	WG2636995
1,4-Dichlorobenzene	ND		1.00	1	11/09/2025 13:15	WG2636995
2-Butanone (MEK)	ND		10.0	1	11/09/2025 13:15	WG2636995
2-Hexanone	ND		5.00	1	11/09/2025 13:15	WG2636995
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	11/09/2025 13:15	WG2636995
Acetone	ND		25.0	1	11/09/2025 13:15	WG2636995
Acrylonitrile	ND		0.320	1	11/09/2025 13:15	WG2636995
Benzene	ND		1.00	1	11/09/2025 13:15	WG2636995
Bromochloromethane	ND		1.00	1	11/09/2025 13:15	WG2636995
Bromodichloromethane	ND		1.00	1	11/09/2025 13:15	WG2636995
Bromoform	ND	C3	1.00	1	11/09/2025 13:15	WG2636995
Bromomethane	ND		2.50	1	11/09/2025 13:15	WG2636995
Carbon disulfide	ND		1.00	1	11/09/2025 13:15	WG2636995
Carbon tetrachloride	ND		1.00	1	11/09/2025 13:15	WG2636995
Chlorobenzene	ND		1.00	1	11/09/2025 13:15	WG2636995
Chlorodibromomethane	ND		1.00	1	11/09/2025 13:15	WG2636995
Chloroethane	ND		2.50	1	11/09/2025 13:15	WG2636995
Chloroform	ND		1.00	1	11/09/2025 13:15	WG2636995
Chloromethane	ND		1.25	1	11/09/2025 13:15	WG2636995
Dibromomethane	ND		1.00	1	11/09/2025 13:15	WG2636995
Ethylbenzene	ND		1.00	1	11/09/2025 13:15	WG2636995
Iodomethane	ND		10.0	1	11/09/2025 13:15	WG2636995
Methylene Chloride	ND		2.50	1	11/09/2025 13:15	WG2636995
Styrene	ND		1.00	1	11/09/2025 13:15	WG2636995
Tetrachloroethene	ND	C3	1.00	1	11/09/2025 13:15	WG2636995
Toluene	ND		1.00	1	11/09/2025 13:15	WG2636995
Trichloroethene	ND		1.00	1	11/09/2025 13:15	WG2636995
Trichlorofluoromethane	ND		2.50	1	11/09/2025 13:15	WG2636995
Vinyl acetate	ND		5.00	1	11/09/2025 13:15	WG2636995
Vinyl chloride	ND		1.00	1	11/09/2025 13:15	WG2636995
Xylenes, Total	ND		1.50	1	11/09/2025 13:15	WG2636995
cis-1,2-Dichloroethene	ND		1.00	1	11/09/2025 13:15	WG2636995
cis-1,3-Dichloropropene	ND		1.00	1	11/09/2025 13:15	WG2636995
trans-1,2-Dichloroethene	ND		1.00	1	11/09/2025 13:15	WG2636995
trans-1,3-Dichloropropene	ND		1.00	1	11/09/2025 13:15	WG2636995
trans-1,4-Dichloro-2-butene	ND		1.00	1	11/09/2025 13:15	WG2636995

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*	*11/09/2025 13:15*	WG2636995
(S) Toluene-d8	*96.4*			*75.0-131*	*11/09/2025 13:15*	WG2636995
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*	*11/09/2025 13:15*	WG2636995

Method Blank (MB)

(MB) R4298141-1 11/06/25 07:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	ND		2.82	10.0

L1914825-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1914825-01 11/06/25 07:54 • (DUP) R4298141-3 11/06/25 07:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1310	1350	1	3.01		10

L1914859-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1914859-09 11/06/25 07:54 • (DUP) R4298141-4 11/06/25 07:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	894	890	1	0.448		10

Laboratory Control Sample (LCS)

(LCS) R4298141-2 11/06/25 07:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8560	97.3	90.0-110	

Method Blank (MB)

(MB) R4299230-1 11/09/25 17:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1914816-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1914816-01 11/09/25 17:59 • (DUP) R4299230-3 11/09/25 17:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	46.0	48.0	1	4.26		10

L1914833-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1914833-07 11/09/25 17:59 • (DUP) R4299230-4 11/09/25 17:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	46.5	61.3	1	27.4	J3	10

Laboratory Control Sample (LCS)

(LCS) R4299230-2 11/09/25 17:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	742	96.0	85.0-115	

Method Blank (MB)

(MB) R4299370-1 11/10/25 08:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1914825-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1914825-01 11/10/25 08:41 • (DUP) R4299370-3 11/10/25 08:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	64.0	66.0	1	3.08		10

L1915110-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1915110-01 11/10/25 08:41 • (DUP) R4299370-4 11/10/25 08:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	45.5	45.8	1	0.548		10

Laboratory Control Sample (LCS)

(LCS) R4299370-2 11/10/25 08:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	758	98.1	85.0-115	

Method Blank (MB)

(MB) R4298067-2 11/07/25 13:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1913831-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1913831-07 11/07/25 13:36 • (DUP) R4298067-3 11/07/25 13:40

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	381	378	1	0.835		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

L1914486-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1914486-17 11/07/25 15:52 • (DUP) R4298067-4 11/07/25 15:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	233	243	1	4.42		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4298067-1 11/07/25 13:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	96.4	96.4	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4298069-2 11/07/25 13:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1913831-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1913831-15 11/07/25 13:38 • (DUP) R4298069-3 11/07/25 13:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	326	330	1	1.01		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

L1914827-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1914827-06 11/07/25 15:28 • (DUP) R4298069-4 11/07/25 15:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4298069-1 11/07/25 13:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	100	100	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

Method Blank (MB)

(MB) R4297008-1 11/05/25 19:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1914825-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1914825-02 11/05/25 19:23 • (DUP) R4297008-3 11/05/25 19:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1914827-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1914827-02 11/05/25 19:39 • (DUP) R4297008-6 11/05/25 19:41

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

Laboratory Control Sample (LCS)

(LCS) R4297008-2 11/05/25 19:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.27	96.9	90.0-110	

L1914825-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1914825-02 11/05/25 19:23 • (MS) R4297008-4 11/05/25 19:30 • (MSD) R4297008-5 11/05/25 19:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	ND	5.01	4.84	100	96.7	1	90.0-110			3.46	10

L1914827-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1914827-02 11/05/25 19:39 • (MS) R4297008-7 11/05/25 19:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.15	103	1	90.0-110	

Method Blank (MB)

(MB) R4299152-1 11/10/25 17:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.240	J	0.0519	1.00
Sulfate	0.258	J	0.0774	5.00

L1914723-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1914723-01 11/10/25 20:34 • (DUP) R4299152-3 11/10/25 20:46

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	15.2	15.6	1	2.34		15
Sulfate	30.5	31.3	1	2.39		15

L1914827-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1914827-02 11/11/25 00:06 • (DUP) R4299152-6 11/11/25 00:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4.81	4.69	1	2.56		15
Sulfate	71.2	70.2	1	1.39		15

Laboratory Control Sample (LCS)

(LCS) R4299152-2 11/10/25 17:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.5	96.3	80.0-120	
Sulfate	40.0	39.1	97.8	80.0-120	

L1914723-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1914723-01 11/10/25 20:34 • (MS) R4299152-4 11/10/25 20:58 • (MSD) R4299152-5 11/10/25 21:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	15.2	50.2	51.6	87.4	90.8	1	80.0-120			2.69	15
Sulfate	40.0	30.5	64.0	65.4	83.8	87.1	1	80.0-120			2.07	15

L1914827-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1914827-02 11/11/25 00:06 • (MS) R4299152-7 11/11/25 00:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	4.81	41.6	92.0	1	80.0-120	
Sulfate	40.0	71.2	95.1	59.8	1	80.0-120	J6

QUALITY CONTROL SUMMARY

L1914825-01,02,03,05

Method Blank (MB)

(MB) R4307656-1 11/29/25 18:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silver	ND		0.000250	0.00200
Arsenic	ND		0.000250	0.00200
Barium	0.00189	J	0.000360	0.00500
Beryllium	ND		0.000120	0.00200
Calcium	0.191	J	0.0460	1.00
Cadmium	ND		0.000160	0.00100
Cobalt	ND		0.000260	0.00200
Chromium	0.000615	J	0.000540	0.00200
Copper	0.00112	J	0.000520	0.00500
Iron	ND		0.0150	0.100
Potassium	0.0688	J	0.0370	1.00
Magnesium	ND		0.100	1.00
Sodium	0.321	J	0.110	1.00
Nickel	0.000514	J	0.000350	0.00200
Lead	ND		0.000240	0.00200
Antimony	ND		0.000754	0.00200
Selenium	ND		0.000380	0.00200
Thallium	ND		0.000190	0.00200
Vanadium	0.000364	J	0.000180	0.00500
Zinc	ND		0.00256	0.0250

Laboratory Control Sample (LCS)

(LCS) R4307656-2 11/29/25 18:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver	0.0500	0.0512	102	80.0-120	
Arsenic	0.0500	0.0524	105	80.0-120	
Barium	0.0500	0.0546	109	80.0-120	
Beryllium	0.0500	0.0522	104	80.0-120	
Calcium	5.00	5.44	109	80.0-120	
Cadmium	0.0500	0.0517	103	80.0-120	
Cobalt	0.0500	0.0531	106	80.0-120	
Chromium	0.0500	0.0530	106	80.0-120	
Copper	0.0500	0.0545	109	80.0-120	
Iron	1.00	1.05	105	80.0-120	
Potassium	5.00	5.15	103	80.0-120	
Magnesium	5.00	5.31	106	80.0-120	
Sodium	5.00	5.42	108	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4307656-2 11/29/25 18:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nickel	0.0500	0.0538	108	80.0-120	
Lead	0.0500	0.0517	103	80.0-120	
Antimony	0.0500	0.0518	104	80.0-120	
Selenium	0.0500	0.0505	101	80.0-120	
Thallium	0.0500	0.0520	104	80.0-120	
Vanadium	0.0500	0.0522	104	80.0-120	
Zinc	0.0500	0.0530	106	80.0-120	

L1914825-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1914825-01 11/29/25 18:46 • (MS) R4307656-4 11/29/25 18:52 • (MSD) R4307656-5 11/29/25 18:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver	0.0500	ND	0.0522	0.0532	104	106	1	75.0-125			1.96	20
Arsenic	0.0500	0.0360	0.0906	0.0904	109	109	1	75.0-125			0.138	20
Barium	0.0500	0.0264	0.0799	0.0790	107	105	1	75.0-125			1.17	20
Beryllium	0.0500	ND	0.0518	0.0522	104	104	1	75.0-125			0.783	20
Calcium	5.00	238	245	242	122	70.2	1	75.0-125		V	1.07	20
Cadmium	0.0500	ND	0.0530	0.0530	106	106	1	75.0-125			0.0194	20
Cobalt	0.0500	ND	0.0537	0.0531	106	105	1	75.0-125			1.09	20
Chromium	0.0500	ND	0.0544	0.0542	107	106	1	75.0-125			0.346	20
Copper	0.0500	ND	0.0543	0.0559	100	103	1	75.0-125			2.95	20
Iron	1.00	5.39	6.37	6.37	98.1	97.9	1	75.0-125			0.0347	20
Potassium	5.00	11.0	16.1	16.2	103	105	1	75.0-125			0.794	20
Magnesium	5.00	66.1	70.4	70.4	84.4	85.1	1	75.0-125			0.0500	20
Sodium	5.00	117	122	123	109	129	1	75.0-125		V	0.802	20
Nickel	0.0500	ND	0.0545	0.0546	106	106	1	75.0-125			0.183	20
Lead	0.0500	ND	0.0533	0.0529	105	104	1	75.0-125			0.628	20
Antimony	0.0500	ND	0.0562	0.0557	112	111	1	75.0-125			0.959	20
Selenium	0.0500	ND	0.0530	0.0555	106	111	1	75.0-125			4.65	20
Thallium	0.0500	ND	0.0524	0.0532	105	106	1	75.0-125			1.53	20
Vanadium	0.0500	ND	0.0552	0.0546	108	107	1	75.0-125			1.22	20
Zinc	0.0500	ND	0.0581	0.0591	102	104	1	75.0-125			1.61	20

Method Blank (MB)

(MB) R4299427-2 11/11/25 13:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichloropropane	ND		0.00200	0.00500
1,2-Dibromo-3-Chloropropane	ND		0.000520	0.200
1,2-Dibromoethane	ND		0.00410	0.00500

Laboratory Control Sample (LCS)

(LCS) R4299427-1 11/11/25 13:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichloropropane	0.0500	0.0580	116	70.0-130	
1,2-Dibromo-3-Chloropropane	0.0500	0.0530	106	70.0-130	
1,2-Dibromoethane	0.0500	0.0590	118	70.0-130	

Method Blank (MB)

(MB) R4299375-3 11/08/25 00:25

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.0379	0.100
1,1,1-Trichloroethane	ND		0.0369	0.100
1,1,2,2-Tetrachloroethane	ND		0.0278	0.100
1,1,2-Trichloroethane	ND		0.0239	0.100
1,1-Dichloroethane	ND		0.0196	0.100
1,1-Dichloroethene	ND		0.0242	0.100
1,2-Dichlorobenzene	ND		0.0170	0.200
1,2-Dichloroethane	ND		0.0260	0.100
1,2-Dichloropropane	ND		0.0568	0.200
1,4-Dichlorobenzene	ND		0.0280	0.200
2-Butanone (MEK)	ND		2.54	4.00
2-Hexanone	ND		0.134	1.00
4-Methyl-2-pentanone (MIBK)	ND		0.0912	1.00
Acetone	ND		1.46	2.00
Acrylonitrile	ND		0.144	0.500
Benzene	ND		0.0187	0.0400
Bromochloromethane	ND		0.0226	0.200
Bromodichloromethane	ND		0.0290	0.100
Bromoform	ND		0.0468	1.00
Bromomethane	ND		0.0788	0.500
Carbon disulfide	ND		0.0280	0.500
Carbon tetrachloride	ND		0.0359	0.200
Chlorobenzene	ND		0.00840	0.100
Chlorodibromomethane	ND		0.0245	0.100
Chloroethane	ND		0.0680	0.200
Chloroform	ND		0.0412	0.100
Chloromethane	ND		0.174	0.500
Dibromomethane	ND		0.0300	0.200
Ethylbenzene	ND		0.0295	0.100
Iodomethane	ND		0.0928	0.500
Methylene Chloride	ND		0.266	1.00
Styrene	ND		0.00916	0.500
Tetrachloroethene	ND		0.0358	0.100
Toluene	ND		0.0520	0.200
Trichloroethene	ND		0.0234	0.0400
Trichlorofluoromethane	ND		0.0331	0.100
Vinyl acetate	ND		0.102	0.500
Vinyl chloride	ND		0.0462	1.00
Xylenes, Total	ND		0.0352	0.260
cis-1,2-Dichloroethene	ND		0.0294	0.100

Method Blank (MB)

(MB) R4299375-3 11/08/25 00:25

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,3-Dichloropropene	ND		0.0303	0.100
trans-1,2-Dichloroethene	ND		0.0416	0.200
trans-1,3-Dichloropropene	ND		0.0456	0.200
trans-1,4-Dichloro-2-butene	ND		0.0744	0.200
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) Toluene-d8	*99.6*			*75.0-131*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4299375-1 11/07/25 23:10 • (LCSD) R4299375-2 11/07/25 23:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	10.0	9.55	10.8	95.5	108	74.0-129			12.3	20
1,1,1-Trichloroethane	10.0	8.33	9.20	83.3	92.0	69.0-126			9.93	20
1,1,2,2-Tetrachloroethane	10.0	9.22	10.1	92.2	101	68.0-128			9.11	20
1,1,2-Trichloroethane	10.0	8.61	9.75	86.1	97.5	78.0-123			12.4	20
1,1-Dichloroethane	10.0	8.50	9.40	85.0	94.0	70.0-127			10.1	20
1,1-Dichloroethene	10.0	7.98	8.62	79.8	86.2	65.0-131			7.71	20
1,2-Dichlorobenzene	10.0	9.13	9.99	91.3	99.9	76.0-124			9.00	20
1,2-Dichloroethane	10.0	8.39	9.25	83.9	92.5	65.0-131			9.75	20
1,2-Dichloropropane	10.0	8.69	9.79	86.9	97.9	74.0-125			11.9	20
1,4-Dichlorobenzene	10.0	8.34	9.13	83.4	91.3	77.0-121			9.04	20
2-Butanone (MEK)	50.0	47.0	54.3	94.0	109	30.0-160			14.4	24
2-Hexanone	50.0	53.6	62.7	107	125	54.0-147			15.6	20
4-Methyl-2-pentanone (MIBK)	50.0	47.3	52.7	94.6	105	56.0-143			10.8	20
Acetone	50.0	65.1	83.2	130	166	10.0-160		J4	24.4	31
Acrylonitrile	50.0	50.9	54.7	102	109	45.0-153			7.20	22
Benzene	10.0	8.36	9.13	83.6	91.3	70.0-123			8.81	20
Bromochloromethane	10.0	9.25	10.1	92.5	101	77.0-128			8.79	20
Bromodichloromethane	10.0	9.38	10.2	93.8	102	73.0-121			8.38	20
Bromoform	10.0	9.03	10.4	90.3	104	64.0-132			14.1	20
Bromomethane	10.0	8.24	9.08	82.4	90.8	56.0-147			9.70	20
Carbon disulfide	10.0	7.99	8.80	79.9	88.0	56.0-133			9.65	20
Carbon tetrachloride	10.0	8.29	9.19	82.9	91.9	66.0-128			10.3	20
Chlorobenzene	10.0	8.16	9.23	81.6	92.3	76.0-128			12.3	20
Chlorodibromomethane	10.0	8.88	9.95	88.8	99.5	74.0-127			11.4	20
Chloroethane	10.0	8.32	9.23	83.2	92.3	61.0-134			10.4	20
Chloroform	10.0	8.66	9.69	86.6	96.9	72.0-123			11.2	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4299375-1 11/07/25 23:10 • (LCSD) R4299375-2 11/07/25 23:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloromethane	10.0	10.7	11.8	107	118	51.0-138			9.78	20
Dibromomethane	10.0	8.92	9.89	89.2	98.9	75.0-122			10.3	20
Ethylbenzene	10.0	8.18	9.18	81.8	91.8	74.0-126			11.5	20
Iodomethane	50.0	41.8	46.7	83.6	93.4	74.0-134			11.1	20
Methylene Chloride	10.0	8.69	9.15	86.9	91.5	68.0-123			5.16	20
Styrene	10.0	9.11	10.1	91.1	101	72.0-127			10.3	20
Tetrachloroethene	10.0	7.98	8.88	79.8	88.8	70.0-136			10.7	20
Toluene	10.0	8.01	8.97	80.1	89.7	75.0-121			11.3	20
Trichloroethene	10.0	8.33	9.17	83.3	91.7	76.0-126			9.60	20
Trichlorofluoromethane	10.0	7.93	8.26	79.3	82.6	61.0-142	J	J	4.08	20
Vinyl acetate	50.0	49.6	54.3	99.2	109	43.0-159			9.05	20
Vinyl chloride	10.0	7.73	8.48	77.3	84.8	63.0-134			9.25	20
Xylenes, Total	30.0	26.1	29.5	87.0	98.3	72.0-127			12.2	20
cis-1,2-Dichloroethene	10.0	8.66	9.53	86.6	95.3	73.0-125			9.57	20
cis-1,3-Dichloropropene	10.0	8.94	9.59	89.4	95.9	76.0-127			7.02	20
trans-1,2-Dichloroethene	10.0	8.48	9.23	84.8	92.3	71.0-125			8.47	20
trans-1,3-Dichloropropene	10.0	8.85	9.79	88.5	97.9	73.0-127			10.1	20
trans-1,4-Dichloro-2-butene	10.0	7.08	9.02	70.8	90.2	45.0-143		J3	24.1	20
(S) 4-Bromofluorobenzene				*98.6*	*100*	*67.0-138*				
(S) Toluene-d8				*96.6*	*96.9*	*75.0-131*				
(S) 1,2-Dichloroethane-d4				*106*	*107*	*70.0-130*				

Method Blank (MB)

(MB) R4300826-2 11/09/25 11:16

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.0379	0.100
1,1,1-Trichloroethane	ND		0.0369	0.100
1,1,2,2-Tetrachloroethane	ND		0.0278	0.100
1,1,2-Trichloroethane	ND		0.0239	0.100
1,1-Dichloroethane	ND		0.0196	0.100
1,1-Dichloroethene	ND		0.0242	0.100
1,2-Dichlorobenzene	ND		0.0170	0.200
1,2-Dichloroethane	ND		0.0260	0.100
1,2-Dichloropropane	ND		0.0568	0.200
1,4-Dichlorobenzene	ND		0.0280	0.200
2-Butanone (MEK)	ND		2.54	4.00
2-Hexanone	ND		0.134	1.00
4-Methyl-2-pentanone (MIBK)	ND		0.0912	1.00
Acetone	ND		1.46	2.00
Acrylonitrile	ND		0.144	0.500
Benzene	ND		0.0187	0.0400
Bromochloromethane	ND		0.0226	0.200
Bromodichloromethane	ND		0.0290	0.100
Bromoform	ND		0.0468	1.00
Bromomethane	ND		0.0788	0.500
Carbon disulfide	ND		0.0280	0.500
Carbon tetrachloride	ND		0.0359	0.200
Chlorobenzene	ND		0.00840	0.100
Chlorodibromomethane	ND		0.0245	0.100
Chloroethane	ND		0.0680	0.200
Chloroform	ND		0.0412	0.100
Chloromethane	ND		0.174	0.500
Dibromomethane	ND		0.0300	0.200
Ethylbenzene	ND		0.0295	0.100
Iodomethane	ND		0.0928	0.500
Methylene Chloride	ND		0.266	1.00
Styrene	ND		0.00916	0.500
Tetrachloroethene	ND		0.0358	0.100
Toluene	ND		0.0520	0.200
Trichloroethene	ND		0.0234	0.0400
Trichlorofluoromethane	ND		0.0331	0.100
Vinyl acetate	ND		0.102	0.500
Vinyl chloride	ND		0.0462	1.00
Xylenes, Total	ND		0.0352	0.260
cis-1,2-Dichloroethene	ND		0.0294	0.100

Method Blank (MB)

(MB) R4300826-2 11/09/25 11:16

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,3-Dichloropropene	ND		0.0303	0.100
trans-1,2-Dichloroethene	ND		0.0416	0.200
trans-1,3-Dichloropropene	ND		0.0456	0.200
trans-1,4-Dichloro-2-butene	ND		0.0744	0.200
(S) 4-Bromofluorobenzene	*96.4*			*67.0-138*
(S) Toluene-d8	*96.8*			*75.0-131*
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4300826-1 11/09/25 10:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1,2-Tetrachloroethane	10.0	8.09	80.9	74.0-129	
1,1,1-Trichloroethane	10.0	9.86	98.6	69.0-126	
1,1,2,2-Tetrachloroethane	10.0	10.8	108	68.0-128	
1,1,2-Trichloroethane	10.0	8.90	89.0	78.0-123	
1,1-Dichloroethane	10.0	10.1	101	70.0-127	
1,1-Dichloroethene	10.0	10.4	104	65.0-131	
1,2-Dichlorobenzene	10.0	8.93	89.3	76.0-124	
1,2-Dichloroethane	10.0	11.5	115	65.0-131	
1,2-Dichloropropane	10.0	10.3	103	74.0-125	
1,4-Dichlorobenzene	10.0	8.77	87.7	77.0-121	
2-Butanone (MEK)	50.0	58.2	116	30.0-160	
2-Hexanone	50.0	48.1	96.2	54.0-147	
4-Methyl-2-pentanone (MIBK)	50.0	51.5	103	56.0-143	
Acetone	50.0	61.8	124	10.0-160	
Acrylonitrile	50.0	53.6	107	45.0-153	
Benzene	10.0	9.42	94.2	70.0-123	
Bromochloromethane	10.0	8.62	86.2	77.0-128	
Bromodichloromethane	10.0	9.70	97.0	73.0-121	
Bromoform	10.0	7.23	72.3	64.0-132	
Bromomethane	10.0	11.2	112	56.0-147	
Carbon disulfide	10.0	9.18	91.8	56.0-133	
Carbon tetrachloride	10.0	10.1	101	66.0-128	
Chlorobenzene	10.0	8.19	81.9	76.0-128	
Chlorodibromomethane	10.0	8.31	83.1	74.0-127	
Chloroethane	10.0	9.69	96.9	61.0-134	
Chloroform	10.0	9.68	96.8	72.0-123	

Laboratory Control Sample (LCS)

(LCS) R4300826-1 11/09/25 10:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloromethane	10.0	9.85	98.5	51.0-138	
Dibromomethane	10.0	9.78	97.8	75.0-122	
Ethylbenzene	10.0	8.13	81.3	74.0-126	
Iodomethane	50.0	43.7	87.4	74.0-134	
Methylene Chloride	10.0	8.88	88.8	68.0-123	
Styrene	10.0	8.00	80.0	72.0-127	
Tetrachloroethene	10.0	7.14	71.4	70.0-136	
Toluene	10.0	8.52	85.2	75.0-121	
Trichloroethene	10.0	8.60	86.0	76.0-126	
Trichlorofluoromethane	10.0	9.28	92.8	61.0-142	J
Vinyl acetate	50.0	64.9	130	43.0-159	
Vinyl chloride	10.0	9.86	98.6	63.0-134	
Xylenes, Total	30.0	24.6	82.0	72.0-127	
cis-1,2-Dichloroethene	10.0	9.10	91.0	73.0-125	
cis-1,3-Dichloropropene	10.0	9.93	99.3	76.0-127	
trans-1,2-Dichloroethene	10.0	8.85	88.5	71.0-125	
trans-1,3-Dichloropropene	10.0	9.48	94.8	73.0-127	
trans-1,4-Dichloro-2-butene	10.0	11.5	115	45.0-143	
(S) 4-Bromofluorobenzene			*96.4*	*67.0-138*	
(S) Toluene-d8			*92.1*	*75.0-131*	
(S) 1,2-Dichloroethane-d4			*120*	*70.0-130*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
Background Monitoring

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
200

Lab Project #
WMCENIA-00008

Collected by (print):
Kenneth Smith

Site/Facility ID #
IA02

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK,CHLORIDE,SULFATE 125mlHDPE-NoPres	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	TDS 1L-HDPE NoPres	TSS 1L-HDPE NoPres	V524LL 40mlAmb-AscAcid+HCl	V524LL 40mlAmb-HCl-Blk	V8260ULL 40mlAmb-HCl	V8260ULL 40mlAmb-HCl-Blk		Remarks	Sample # (lab only)
MW-134	G	GW		11/4/25	1300	11	X	X	X	X	X	X		X				-01
MW-135	G	GW		11/4/25	1200	11	X	X	X	X	X	X		X				-02
MW-136	G	GW		11/4/25	1223	11	X	X	X	X	X	X		X				-03
Trip Blank		GW				2							X		X			-04
MW-11R	G	GW		11/3/25	1222	11	X	X	X	X	X	X		X				-05

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1914825

A170

Acctnum: **WMCENIA**
Template:**T231655**
Prelogin: **P1178075**
PM: **3564 - Chad A Upchurch**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: X Y __N
Preservation Correct/Checked: X Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes) / No HCL / MeoH TBR	
[signature] / Adlorence	11/4/25	1700	FEDEX	2	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C	Bottles Received: 44
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11.5.25	Time: 0845

If pr /Time

PH – 10BDH07251
TRC – 5090A93

Hold:

Condition: NCF / OK

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Central Disposal

Site No.: ____ Sample Point: MW134 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L9114825

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/04/25	12:40	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 30.40 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
	1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
11/04/25	7.80	1897	13.5	4.0	5.5	188	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: None Color: Grey Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

Passively Sampled @ 1300 hrs

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/4/25	Mike Hess		AMS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Central Disposal

Site No.: ____ Sample Point: MW135 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1914825

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 04 25	1140	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 47.70 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit: LPM		pH (std)		Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1145	04	1st	8.05	1st	1041	9.8		6.3		
1150		2nd	8.01	2nd	1031	9.8		6.3		
1155		3rd	7.95	3rd	1939	9.8	21	6.3	173	
:		4th		4th						
:										
:										
:										
:										
:										
:										
:										
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2		+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: None Color: N Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

sampled @ 1200

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/4/25	Mike Hunt		Alm

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CDS

Site No.: ____ Sample Point: MW136 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only / Lab ID: L94825

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11 04 25	1208	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: Y (or) N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	44.47 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit: Com	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1213	02	1st 7.35	1st 1061	11.5		6.6		
1218	"	2nd 7.33	2nd 998	11.5		6.4		
1223	"	3rd 7.37	3rd 994	11.5	1.82	6.6		
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: NONE Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: ____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): ____

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign)

Date	Name	Signature	Company
11/4/25	[illegible] Smith	[illegible]	[illegible]

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: CDS

Site No.: | | | | | Sample Point: MW12 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only, Lab ID: L1914825

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
11/03/23	12:07	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C — Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 50.19 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): ____ (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit LPM	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
12:12	0.3 1st	7.36 1st	1110 1st	10.2		0.2		
12:17	" 2nd	7.21 2nd	1098 2nd	10.4		0.2		
12:22	↓ 3rd	7.24 3rd	1098 3rd	10.2	15.7	0.2	224	
:	4th	4th						
:								
:								
:								
:								
:								
:								
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: ____ Odor: NONE Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 15mph E Outlook: Clear Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
11/3/23	Kenneth Smith		Alliance

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

Multiple Parcel Form L# L1914825

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4668 1546 7618	TL19	5.1	0	5.1	(Yes) / No / Not Present
791955470876	TL19	3.2	0	3.2	Yes / No / (Not Present)
791955464338	TL19	2.0	0	2.0	Yes / No / (Not Present)
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Dewyn
Name

11.5.25
Date

ANALYTICAL REPORT

December 09, 2025

Revised Report

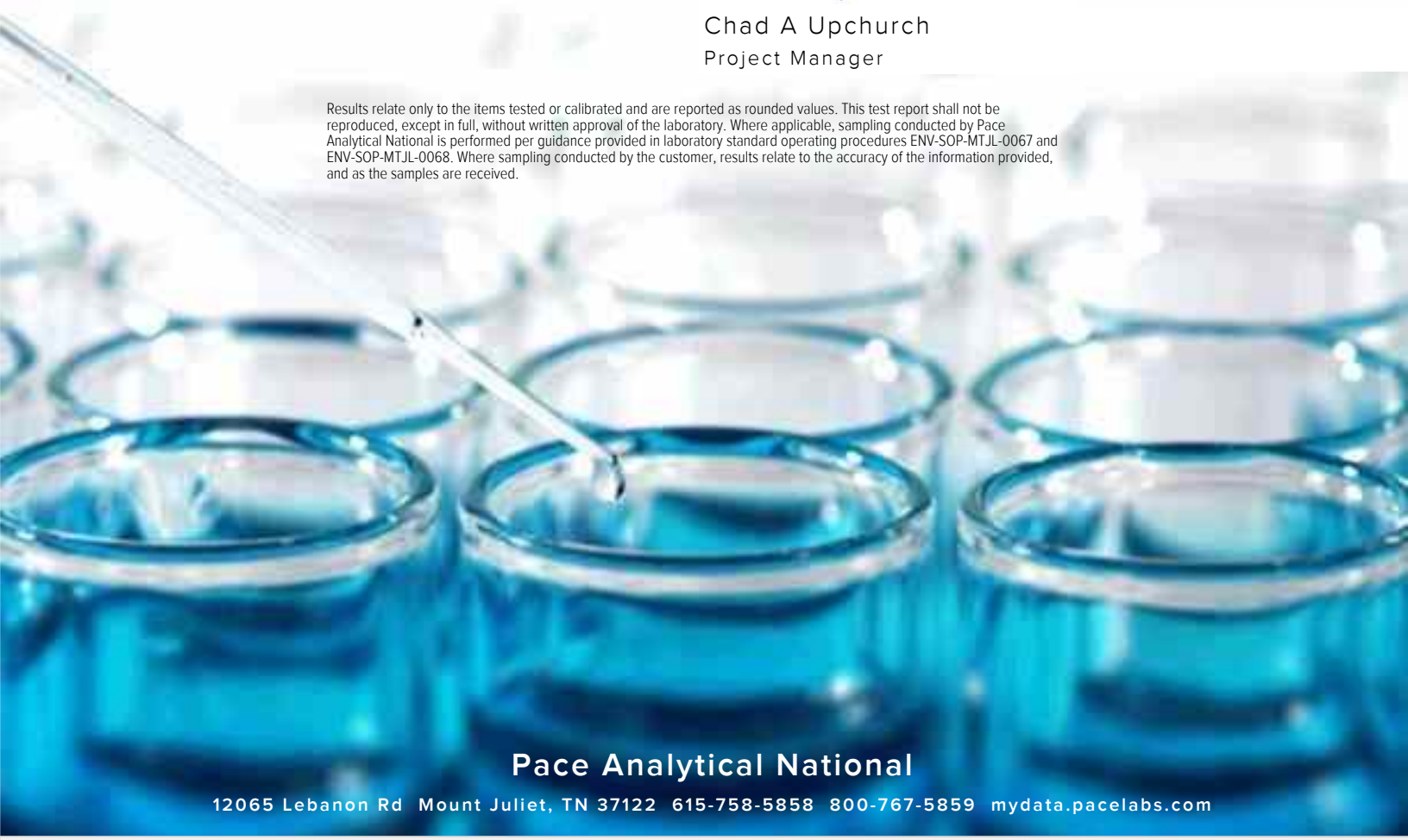
Central Disposal Systems, Inc. Landfill

Sample Delivery Group:	L1917436
Samples Received:	11/12/2025
Project Number:	200
Description:	GU-VIII-1 Background
Site:	IA02
Report To:	George Fletcher 21265 430th Street Lake Mills, IA 50450

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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Trip Blank L1917436-01

Collected by: Mike H. | Collected date/time: 11/11/25 00:00 | Received date/time: 11/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2639760	1	11/13/25 15:49	11/13/25 15:49	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2641655	1	11/17/25 08:59	11/17/25 08:59	JHH	Mt. Juliet, TN

GU-VIII-1 L1917436-02

Collected by: Mike H. | Collected date/time: 11/11/25 12:00 | Received date/time: 11/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2639415	1	11/13/25 09:40	11/13/25 19:03	AMG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG2639270	1	11/13/25 16:05	11/13/25 16:10	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2641874	1	11/17/25 10:18	11/17/25 10:18	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2641589	1	11/16/25 22:16	11/16/25 22:16	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2639470	5	11/16/25 02:16	11/16/25 02:16	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2639470	50	11/16/25 02:28	11/16/25 02:28	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2639443	1	11/14/25 13:31	12/04/25 01:27	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2639760	1	11/13/25 16:10	11/13/25 16:10	BRA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2641655	1	11/17/25 11:00	11/17/25 11:00	JHH	Mt. Juliet, TN

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chad A Upchurch
Project Manager

Report Revision History

Level II Report - Version 1: 12/05/25 17:52

Project Comments

Revised Report: Revised to report L1917436-01 and L1917436-02 only to match the project, per request.

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

Wet Chemistry by Method 9056A

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2639470	(MS) R4302100-4	Chloride

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2639470	(MS) R4302100-6, (MSD) R4302100-7	Chloride

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2639470	(MS) R4302100-4	Chloride

Metals (ICPMS) by Method 6020

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2639443	(MS) R4309694-4, (MSD) R4309694-5	Barium and Iron

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2639443	(MS) R4309694-4	Calcium and Magnesium

Metals (ICPMS) by Method 6020

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2639443	(MSD) R4309694-5	Iron

Volatile Organic Compounds (GC/MS) by Method 8260B

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2641655	L1917436-01	Bromoform, Iodomethane, Tetrachloroethene and Vinyl acetate
WG2641655	L1917436-02	Bromoform, Iodomethane, Tetrachloroethene and Vinyl acetate

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2641655	(LCSD) R4303202-2, L1917436-01, 02	Vinyl acetate

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/17/2025 08:59	WG2641655
1,2,3-Trichloropropane	ND		0.00580	1	11/13/2025 15:49	WG2639760
1,1,1-Trichloroethane	ND		1.00	1	11/17/2025 08:59	WG2641655
1,2-Dibromo-3-Chloropropane	ND		0.200	1	11/13/2025 15:49	WG2639760
1,1,2,2-Tetrachloroethane	ND		0.300	1	11/17/2025 08:59	WG2641655
1,2-Dibromoethane	ND		0.0500	1	11/13/2025 15:49	WG2639760
1,1,2-Trichloroethane	ND		1.00	1	11/17/2025 08:59	WG2641655
1,1-Dichloroethane	ND		1.00	1	11/17/2025 08:59	WG2641655
1,1-Dichloroethene	ND		1.00	1	11/17/2025 08:59	WG2641655
1,2-Dichlorobenzene	ND		1.00	1	11/17/2025 08:59	WG2641655
1,2-Dichloroethane	ND		1.00	1	11/17/2025 08:59	WG2641655
1,2-Dichloropropane	ND		1.00	1	11/17/2025 08:59	WG2641655
1,4-Dichlorobenzene	ND		1.00	1	11/17/2025 08:59	WG2641655
2-Butanone (MEK)	ND		10.0	1	11/17/2025 08:59	WG2641655
2-Hexanone	ND		5.00	1	11/17/2025 08:59	WG2641655
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	11/17/2025 08:59	WG2641655
Acetone	ND		25.0	1	11/17/2025 08:59	WG2641655
Acrylonitrile	ND		0.320	1	11/17/2025 08:59	WG2641655
Benzene	ND		1.00	1	11/17/2025 08:59	WG2641655
Bromochloromethane	ND		1.00	1	11/17/2025 08:59	WG2641655
Bromodichloromethane	ND		1.00	1	11/17/2025 08:59	WG2641655
Bromoform	ND	C3	1.00	1	11/17/2025 08:59	WG2641655
Bromomethane	ND		2.50	1	11/17/2025 08:59	WG2641655
Carbon disulfide	ND		1.00	1	11/17/2025 08:59	WG2641655
Carbon tetrachloride	ND		1.00	1	11/17/2025 08:59	WG2641655
Chlorobenzene	ND		1.00	1	11/17/2025 08:59	WG2641655
Chlorodibromomethane	ND		1.00	1	11/17/2025 08:59	WG2641655
Chloroethane	ND		2.50	1	11/17/2025 08:59	WG2641655
Chloroform	ND		1.00	1	11/17/2025 08:59	WG2641655
Chloromethane	ND		1.25	1	11/17/2025 08:59	WG2641655
Dibromomethane	ND		1.00	1	11/17/2025 08:59	WG2641655
Ethylbenzene	ND		1.00	1	11/17/2025 08:59	WG2641655
Iodomethane	ND	C3	10.0	1	11/17/2025 08:59	WG2641655
Methylene Chloride	ND		2.50	1	11/17/2025 08:59	WG2641655
Styrene	ND		1.00	1	11/17/2025 08:59	WG2641655
Tetrachloroethene	ND	C3	1.00	1	11/17/2025 08:59	WG2641655
Toluene	ND		1.00	1	11/17/2025 08:59	WG2641655
Trichloroethene	ND		1.00	1	11/17/2025 08:59	WG2641655
Trichlorofluoromethane	ND		2.50	1	11/17/2025 08:59	WG2641655
Vinyl acetate	ND	C3 J3	5.00	1	11/17/2025 08:59	WG2641655
Vinyl chloride	ND		1.00	1	11/17/2025 08:59	WG2641655
Xylenes, Total	ND		1.50	1	11/17/2025 08:59	WG2641655
cis-1,2-Dichloroethene	ND		1.00	1	11/17/2025 08:59	WG2641655
cis-1,3-Dichloropropene	ND		1.00	1	11/17/2025 08:59	WG2641655
trans-1,2-Dichloroethene	ND		1.00	1	11/17/2025 08:59	WG2641655
trans-1,3-Dichloropropene	ND		1.00	1	11/17/2025 08:59	WG2641655
trans-1,4-Dichloro-2-butene	ND		1.00	1	11/17/2025 08:59	WG2641655
(S) 4-Bromofluorobenzene	*94.4*			*67.0-138*	*11/17/2025 08:59*	WG2641655
(S) Toluene-d8	*98.8*			*75.0-131*	*11/17/2025 08:59*	WG2641655
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*	*11/17/2025 08:59*	WG2641655

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	1510		10.0	1	11/13/2025 19:03	WG2639415

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	ND		4.00	1	11/13/2025 16:10	WG2639270

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	522		20.0	1	11/17/2025 10:18	WG2641874

Sample Narrative:

L1917436-02 WG2641874: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 350.1

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Ammonia Nitrogen	5.09		0.100	1	11/16/2025 22:16	WG2641589

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	41.4		1.00	5	11/16/2025 02:16	WG2639470
Sulfate	723		5.00	50	11/16/2025 02:28	WG2639470

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.00200	1	12/04/2025 01:27	WG2639443
Arsenic	0.00398		0.00200	1	12/04/2025 01:27	WG2639443
Barium	0.0536		0.00500	1	12/04/2025 01:27	WG2639443
Beryllium	ND		0.00200	1	12/04/2025 01:27	WG2639443
Calcium	305		1.00	1	12/04/2025 01:27	WG2639443
Cadmium	ND		0.00100	1	12/04/2025 01:27	WG2639443
Cobalt	0.00492		0.00200	1	12/04/2025 01:27	WG2639443
Chromium	ND		0.00200	1	12/04/2025 01:27	WG2639443
Copper	ND		0.00500	1	12/04/2025 01:27	WG2639443
Iron	1.42		0.100	1	12/04/2025 01:27	WG2639443
Potassium	13.8		1.00	1	12/04/2025 01:27	WG2639443
Magnesium	92.5		1.00	1	12/04/2025 01:27	WG2639443
Sodium	48.2		1.00	1	12/04/2025 01:27	WG2639443
Nickel	0.0168		0.00200	1	12/04/2025 01:27	WG2639443
Lead	ND		0.00200	1	12/04/2025 01:27	WG2639443
Antimony	ND		0.00200	1	12/04/2025 01:27	WG2639443
Selenium	ND		0.00200	1	12/04/2025 01:27	WG2639443
Thallium	ND		0.00200	1	12/04/2025 01:27	WG2639443
Vanadium	ND		0.00500	1	12/04/2025 01:27	WG2639443
Zinc	ND		0.0250	1	12/04/2025 01:27	WG2639443

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	RL ug/l	Dilution	Analysis date / time	Batch
1,1,1,2-Tetrachloroethane	ND		1.00	1	11/17/2025 11:00	WG2641655
1,2,3-Trichloropropane	ND		0.00580	1	11/13/2025 16:10	WG2639760
1,1,1-Trichloroethane	ND		1.00	1	11/17/2025 11:00	WG2641655
1,2-Dibromo-3-Chloropropane	ND		0.200	1	11/13/2025 16:10	WG2639760
1,1,2,2-Tetrachloroethane	ND		0.300	1	11/17/2025 11:00	WG2641655
1,2-Dibromoethane	ND		0.0500	1	11/13/2025 16:10	WG2639760
1,1,2-Trichloroethane	ND		1.00	1	11/17/2025 11:00	WG2641655
1,1-Dichloroethane	ND		1.00	1	11/17/2025 11:00	WG2641655
1,1-Dichloroethene	ND		1.00	1	11/17/2025 11:00	WG2641655
1,2-Dichlorobenzene	ND		1.00	1	11/17/2025 11:00	WG2641655
1,2-Dichloroethane	ND		1.00	1	11/17/2025 11:00	WG2641655
1,2-Dichloropropane	ND		1.00	1	11/17/2025 11:00	WG2641655
1,4-Dichlorobenzene	ND		1.00	1	11/17/2025 11:00	WG2641655
2-Butanone (MEK)	ND		10.0	1	11/17/2025 11:00	WG2641655
2-Hexanone	ND		5.00	1	11/17/2025 11:00	WG2641655
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	11/17/2025 11:00	WG2641655
Acetone	ND		25.0	1	11/17/2025 11:00	WG2641655
Acrylonitrile	ND		0.320	1	11/17/2025 11:00	WG2641655
Benzene	ND		1.00	1	11/17/2025 11:00	WG2641655
Bromochloromethane	ND		1.00	1	11/17/2025 11:00	WG2641655
Bromodichloromethane	ND		1.00	1	11/17/2025 11:00	WG2641655
Bromoform	ND	C3	1.00	1	11/17/2025 11:00	WG2641655
Bromomethane	ND		2.50	1	11/17/2025 11:00	WG2641655
Carbon disulfide	ND		1.00	1	11/17/2025 11:00	WG2641655
Carbon tetrachloride	ND		1.00	1	11/17/2025 11:00	WG2641655
Chlorobenzene	ND		1.00	1	11/17/2025 11:00	WG2641655
Chlorodibromomethane	ND		1.00	1	11/17/2025 11:00	WG2641655
Chloroethane	ND		2.50	1	11/17/2025 11:00	WG2641655
Chloroform	ND		1.00	1	11/17/2025 11:00	WG2641655
Chloromethane	ND		1.25	1	11/17/2025 11:00	WG2641655
Dibromomethane	ND		1.00	1	11/17/2025 11:00	WG2641655
Ethylbenzene	ND		1.00	1	11/17/2025 11:00	WG2641655
Iodomethane	ND	C3	10.0	1	11/17/2025 11:00	WG2641655
Methylene Chloride	ND		2.50	1	11/17/2025 11:00	WG2641655
Styrene	ND		1.00	1	11/17/2025 11:00	WG2641655
Tetrachloroethene	ND	C3	1.00	1	11/17/2025 11:00	WG2641655
Toluene	ND		1.00	1	11/17/2025 11:00	WG2641655
Trichloroethene	ND		1.00	1	11/17/2025 11:00	WG2641655
Trichlorofluoromethane	ND		2.50	1	11/17/2025 11:00	WG2641655
Vinyl acetate	ND	C3 J3	5.00	1	11/17/2025 11:00	WG2641655
Vinyl chloride	ND		1.00	1	11/17/2025 11:00	WG2641655
Xylenes, Total	ND		1.50	1	11/17/2025 11:00	WG2641655
cis-1,2-Dichloroethene	ND		1.00	1	11/17/2025 11:00	WG2641655
cis-1,3-Dichloropropene	ND		1.00	1	11/17/2025 11:00	WG2641655
trans-1,2-Dichloroethene	ND		1.00	1	11/17/2025 11:00	WG2641655
trans-1,3-Dichloropropene	ND		1.00	1	11/17/2025 11:00	WG2641655
trans-1,4-Dichloro-2-butene	ND		1.00	1	11/17/2025 11:00	WG2641655
(S) 4-Bromofluorobenzene	*95.3*			*67.0-138*	*11/17/2025 11:00*	WG2641655
(S) Toluene-d8	*99.4*			*75.0-131*	*11/17/2025 11:00*	WG2641655
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*	*11/17/2025 11:00*	WG2641655

Method Blank (MB)

(MB) R4301627-1 11/13/25 19:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	ND		2.82	10.0

L1917323-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917323-01 11/13/25 19:03 • (DUP) R4301627-3 11/13/25 19:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	10000	10200	1	1.38		10

L1917466-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917466-01 11/13/25 19:03 • (DUP) R4301627-4 11/13/25 19:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	535	553	1	3.31		10

Laboratory Control Sample (LCS)

(LCS) R4301627-2 11/13/25 19:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8510	96.7	90.0-110	

Method Blank (MB)

(MB) R4301079-1 11/13/25 16:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1917436-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1917436-03 11/13/25 16:10 • (DUP) R4301079-3 11/13/25 16:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	183	173	1	5.62		10

L1917473-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917473-01 11/13/25 16:10 • (DUP) R4301079-4 11/13/25 16:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	38.0	39.0	1	2.60		10

Laboratory Control Sample (LCS)

(LCS) R4301079-2 11/13/25 16:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	776	100	85.0-115	

Method Blank (MB)

(MB) R4302157-2 11/17/25 10:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1917436-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1917436-02 11/17/25 10:18 • (DUP) R4302157-3 11/17/25 10:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	522	528	1	1.18		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1918093-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1918093-03 11/17/25 11:50 • (DUP) R4302157-4 11/17/25 11:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	225	225	1	0.241		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4302157-1 11/17/25 10:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	103	103	90.0-110	

Sample Narrative:

LCS: Endpoint pH 4.5

QUALITY CONTROL SUMMARY

L1917436-02

Method Blank (MB)

(MB) R4301807-1 11/16/25 22:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1916718-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1916718-21 11/16/25 22:07 • (DUP) R4301807-3 11/16/25 22:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	0.000		10

L1917436-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1917436-02 11/16/25 22:16 • (DUP) R4301807-5 11/16/25 22:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	5.09	5.07	1	0.492		10

Laboratory Control Sample (LCS)

(LCS) R4301807-2 11/16/25 22:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.21	96.1	90.0-110	

L1916718-21 Original Sample (OS) • Matrix Spike (MS)

(OS) L1916718-21 11/16/25 22:07 • (MS) R4301807-4 11/16/25 22:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	4.90	98.0	1	90.0-110	

L1917436-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1917436-02 11/16/25 22:16 • (MS) R4301807-6 11/16/25 22:24 • (MSD) R4301807-7 11/16/25 22:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	5.09	9.77	9.78	93.5	93.8	1	90.0-110			0.143	10

Method Blank (MB)

(MB) R4302100-1 11/16/25 00:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.174	J	0.0519	1.00
Sulfate	0.151	J	0.0774	5.00

L1917442-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917442-01 11/16/25 03:13 • (DUP) R4302100-3 11/16/25 03:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	27.5	27.5	1	0.206		15

L1917448-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917448-01 11/16/25 03:47 • (DUP) R4302100-5 11/16/25 03:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	15.0	15.3	5	1.86	J	15

Sample Narrative:

OS: Dilution due to matrix impact on instrumentation at lower dilution

L1917442-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1917442-01 11/17/25 22:38 • (DUP) R4302452-3 11/17/25 22:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	95.3	94.8	5	0.486		15

Laboratory Control Sample (LCS)

(LCS) R4302100-2 11/16/25 00:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	41.2	103	80.0-120	
Sulfate	40.0	41.4	103	80.0-120	

L1917442-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1917442-01 11/16/25 03:13 • (MS) R4302100-4 11/16/25 03:36

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	107	124	43.3	1	80.0-120	E J6
Sulfate	40.0	27.5	61.8	85.9	1	80.0-120	

L1917448-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1917448-01 11/16/25 03:47 • (MS) R4302100-6 11/16/25 04:10 • (MSD) R4302100-7 11/16/25 04:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	548	475	473	0.000	0.000	5	80.0-120	V	V	0.363	15
Sulfate	40.0	15.0	52.4	52.2	93.6	93.1	5	80.0-120			0.353	15

Sample Narrative:

OS: Dilution due to matrix impact on instrumentation at lower dilution

Method Blank (MB)

(MB) R4309694-1 12/03/25 23:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Silver	ND		0.000250	0.00200
Arsenic	ND		0.000250	0.00200
Barium	ND		0.000360	0.00500
Beryllium	ND		0.000120	0.00200
Calcium	0.0460	J	0.0460	1.00
Cadmium	ND		0.000160	0.00100
Cobalt	ND		0.000260	0.00200
Chromium	ND		0.000540	0.00200
Copper	ND		0.000520	0.00500
Iron	0.0189	J	0.0150	0.100
Potassium	ND		0.0370	1.00
Magnesium	ND		0.100	1.00
Sodium	ND		0.110	1.00
Nickel	ND		0.000350	0.00200
Lead	ND		0.000240	0.00200
Antimony	ND		0.000754	0.00200
Selenium	ND		0.000380	0.00200
Thallium	ND		0.000190	0.00200
Vanadium	0.000532	J	0.000180	0.00500
Zinc	0.00394	J	0.00256	0.0250

Laboratory Control Sample (LCS)

(LCS) R4309694-2 12/03/25 23:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver	0.0500	0.0505	101	80.0-120	
Arsenic	0.0500	0.0527	105	80.0-120	
Barium	0.0500	0.0505	101	80.0-120	
Beryllium	0.0500	0.0505	101	80.0-120	
Calcium	5.00	5.27	105	80.0-120	
Cadmium	0.0500	0.0561	112	80.0-120	
Cobalt	0.0500	0.0554	111	80.0-120	
Chromium	0.0500	0.0556	111	80.0-120	
Copper	0.0500	0.0549	110	80.0-120	
Iron	1.00	1.08	108	80.0-120	
Potassium	5.00	5.17	103	80.0-120	
Magnesium	5.00	5.50	110	80.0-120	
Sodium	5.00	5.37	107	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4309694-2 12/03/25 23:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nickel	0.0500	0.0566	113	80.0-120	
Lead	0.0500	0.0525	105	80.0-120	
Antimony	0.0500	0.0512	102	80.0-120	
Selenium	0.0500	0.0521	104	80.0-120	
Thallium	0.0500	0.0529	106	80.0-120	
Vanadium	0.0500	0.0552	110	80.0-120	
Zinc	0.0500	0.0563	113	80.0-120	

L1917436-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1917436-03 12/03/25 23:56 • (MS) R4309694-4 12/04/25 00:02 • (MSD) R4309694-5 12/04/25 00:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Silver	0.0500	ND	0.0494	0.0500	98.8	100	1	75.0-125			1.29	20
Arsenic	0.0500	0.00409	0.0558	0.0572	103	106	1	75.0-125			2.57	20
Barium	0.0500	0.0888	0.142	0.155	107	132	1	75.0-125		J5	8.48	20
Beryllium	0.0500	ND	0.0485	0.0474	96.9	94.8	1	75.0-125			2.18	20
Calcium	5.00	260	264	265	73.2	88.6	1	75.0-125	V		0.291	20
Cadmium	0.0500	ND	0.0543	0.0546	108	109	1	75.0-125			0.525	20
Cobalt	0.0500	ND	0.0531	0.0544	103	105	1	75.0-125			2.37	20
Chromium	0.0500	0.00216	0.0549	0.0585	105	113	1	75.0-125			6.30	20
Copper	0.0500	0.139	0.193	0.193	107	107	1	75.0-125			0.00856	20
Iron	1.00	1.85	3.23	5.30	138	345	1	75.0-125	J5	J3 J5	48.7	20
Potassium	5.00	14.5	19.6	19.8	103	106	1	75.0-125			0.617	20
Magnesium	5.00	73.7	81.4	79.1	152	108	1	75.0-125	V		2.79	20
Sodium	5.00	43.1	48.0	47.5	98.8	87.9	1	75.0-125			1.13	20
Nickel	0.0500	0.00716	0.0587	0.0623	103	110	1	75.0-125			6.02	20
Lead	0.0500	0.00242	0.0530	0.0544	101	104	1	75.0-125			2.66	20
Antimony	0.0500	0.00701	0.0583	0.0568	103	99.6	1	75.0-125			2.60	20
Selenium	0.0500	ND	0.0512	0.0534	102	106	1	75.0-125			4.13	20
Thallium	0.0500	ND	0.0513	0.0511	102	102	1	75.0-125			0.428	20
Vanadium	0.0500	0.00555	0.0599	0.0664	109	122	1	75.0-125			10.2	20
Zinc	0.0500	0.0915	0.140	0.148	97.4	112	1	75.0-125			5.19	20

Method Blank (MB)

(MB) R4300906-2 11/13/25 15:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichloropropane	ND		0.00200	0.00500
1,2-Dibromo-3-Chloropropane	ND		0.000520	0.00500
1,2-Dibromoethane	ND		0.00410	0.00500

Laboratory Control Sample (LCS)

(LCS) R4300906-1 11/13/25 14:28

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichloropropane	0.0500	0.0490	98.0	70.0-130	
1,2-Dibromo-3-Chloropropane	0.0500	0.0480	96.0	70.0-130	
1,2-Dibromoethane	0.0500	0.0500	100	70.0-130	

Method Blank (MB)

(MB) R4303202-3 11/17/25 08:19

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.0379	0.100
1,1,1-Trichloroethane	ND		0.0369	0.100
1,1,2,2-Tetrachloroethane	ND		0.0278	0.100
1,1,2-Trichloroethane	ND		0.0239	0.100
1,1-Dichloroethane	ND		0.0196	0.100
1,1-Dichloroethene	ND		0.0242	0.100
1,2-Dichlorobenzene	ND		0.0170	0.200
1,2-Dichloroethane	ND		0.0260	0.100
1,2-Dichloropropane	ND		0.0568	0.200
1,4-Dichlorobenzene	0.0320	J	0.0280	0.200
2-Butanone (MEK)	ND		2.54	4.00
2-Hexanone	ND		0.134	1.00
4-Methyl-2-pentanone (MIBK)	ND		0.0912	1.00
Acetone	ND		1.46	2.00
Acrylonitrile	ND		0.144	0.500
Benzene	ND		0.0187	0.0400
Bromochloromethane	ND		0.0226	0.200
Bromodichloromethane	ND		0.0290	0.100
Bromoform	ND		0.0468	1.00
Bromomethane	ND		0.0788	0.500
Carbon disulfide	0.0310	J	0.0280	0.500
Carbon tetrachloride	ND		0.0359	0.200
Chlorobenzene	ND		0.00840	0.100
Chlorodibromomethane	ND		0.0245	0.100
Chloroethane	ND		0.0680	0.200
Chloroform	0.0680	J	0.0412	0.100
Chloromethane	ND		0.174	0.500
Dibromomethane	ND		0.0300	0.200
Ethylbenzene	ND		0.0295	0.100
Iodomethane	0.475	J	0.0928	0.500
Methylene Chloride	ND		0.266	1.00
Styrene	ND		0.00916	0.500
Tetrachloroethene	ND		0.0358	0.100
Toluene	ND		0.0520	0.200
Trichloroethene	ND		0.0234	0.0400
Trichlorofluoromethane	ND		0.0331	0.100
Vinyl acetate	ND		0.102	0.500
Vinyl chloride	ND		0.0462	0.0500
Xylenes, Total	ND		0.0352	0.260
cis-1,2-Dichloroethene	ND		0.0294	0.100

Method Blank (MB)

(MB) R4303202-3 11/17/25 08:19

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,3-Dichloropropene	ND		0.0303	0.100
trans-1,2-Dichloroethene	ND		0.0416	0.200
trans-1,3-Dichloropropene	ND		0.0456	0.200
trans-1,4-Dichloro-2-butene	ND		0.0744	0.200
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*
(S) Toluene-d8	*99.4*			*75.0-131*
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4303202-1 11/17/25 06:38 • (LCSD) R4303202-2 11/17/25 06:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1,1,2-Tetrachloroethane	10.0	8.34	8.68	83.4	86.8	74.0-129			4.00	20
1,1,1-Trichloroethane	10.0	9.93	10.0	99.3	100	69.0-126			0.702	20
1,1,2,2-Tetrachloroethane	10.0	10.7	11.7	107	117	68.0-128			8.93	20
1,1,2-Trichloroethane	10.0	9.42	9.68	94.2	96.8	78.0-123			2.72	20
1,1-Dichloroethane	10.0	9.73	10.3	97.3	103	70.0-127			5.69	20
1,1-Dichloroethene	10.0	9.98	10.6	99.8	106	65.0-131			6.03	20
1,2-Dichlorobenzene	10.0	9.52	9.71	95.2	97.1	76.0-124			1.98	20
1,2-Dichloroethane	10.0	11.0	11.4	110	114	65.0-131			3.57	20
1,2-Dichloropropane	10.0	10.3	10.3	103	103	74.0-125			0.000	20
1,4-Dichlorobenzene	10.0	9.23	9.20	92.3	92.0	77.0-121			0.326	20
2-Butanone (MEK)	50.0	51.3	58.0	103	116	30.0-160			12.3	24
2-Hexanone	50.0	50.9	49.0	102	98.0	54.0-147			3.80	20
4-Methyl-2-pentanone (MIBK)	50.0	54.8	52.8	110	106	56.0-143			3.72	20
Acetone	50.0	45.3	53.8	90.6	108	10.0-160			17.2	31
Acrylonitrile	50.0	55.6	53.9	111	108	45.0-153			3.11	22
Benzene	10.0	9.39	9.56	93.9	95.6	70.0-123			1.79	20
Bromochloromethane	10.0	8.64	9.02	86.4	90.2	77.0-128			4.30	20
Bromodichloromethane	10.0	9.53	10.0	95.3	100	73.0-121			4.81	20
Bromoform	10.0	7.62	7.59	76.2	75.9	64.0-132			0.394	20
Bromomethane	10.0	9.94	10.4	99.4	104	56.0-147			4.52	20
Carbon disulfide	10.0	9.19	9.75	91.9	97.5	56.0-133			5.91	20
Carbon tetrachloride	10.0	9.74	10.1	97.4	101	66.0-128			3.63	20
Chlorobenzene	10.0	8.33	8.78	83.3	87.8	76.0-128			5.26	20
Chlorodibromomethane	10.0	8.36	8.69	83.6	86.9	74.0-127			3.87	20
Chloroethane	10.0	9.81	10.4	98.1	104	61.0-134			5.84	20
Chloroform	10.0	9.35	9.52	93.5	95.2	72.0-123			1.80	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4303202-1 11/17/25 06:38 • (LCSD) R4303202-2 11/17/25 06:58

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloromethane	10.0	10.6	11.0	106	110	51.0-138			3.70	20
Dibromomethane	10.0	9.89	9.96	98.9	99.6	75.0-122			0.705	20
Ethylbenzene	10.0	8.52	8.80	85.2	88.0	74.0-126			3.23	20
Iodomethane	50.0	38.6	47.1	77.2	94.2	74.0-134			19.8	20
Methylene Chloride	10.0	8.97	9.54	89.7	95.4	68.0-123			6.16	20
Styrene	10.0	8.22	8.61	82.2	86.1	72.0-127			4.63	20
Tetrachloroethene	10.0	7.69	7.92	76.9	79.2	70.0-136			2.95	20
Toluene	10.0	8.78	9.31	87.8	93.1	75.0-121			5.86	20
Trichloroethene	10.0	8.89	9.02	88.9	90.2	76.0-126			1.45	20
Trichlorofluoromethane	10.0	9.21	9.43	92.1	94.3	61.0-142	J	J	2.36	20
Vinyl acetate	50.0	38.1	56.7	76.2	113	43.0-159		J3	39.2	20
Vinyl chloride	10.0	10.2	10.6	102	106	63.0-134			3.85	20
Xylenes, Total	30.0	25.3	26.7	84.3	89.0	72.0-127			5.38	20
cis-1,2-Dichloroethene	10.0	9.01	9.08	90.1	90.8	73.0-125			0.774	20
cis-1,3-Dichloropropene	10.0	9.56	9.98	95.6	99.8	76.0-127			4.30	20
trans-1,2-Dichloroethene	10.0	8.90	9.50	89.0	95.0	71.0-125			6.52	20
trans-1,3-Dichloropropene	10.0	9.72	10.1	97.2	101	73.0-127			3.83	20
trans-1,4-Dichloro-2-butene	10.0	11.9	12.0	119	120	45.0-143			0.837	20
(S) 4-Bromofluorobenzene				*93.4*	*95.1*	*67.0-138*				
(S) Toluene-d8				*95.0*	*95.1*	*75.0-131*				
(S) 1,2-Dichloroethane-d4				*117*	*115*	*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Central Disposal Systems, Inc. Landfill

21265 430th Street
Lake Mills, IA 50450

Billing Information:
Accounts Payable/kolson2@wm.com
PO Box 4745
Portland, OR 97208-4745

Report to:
Aaron Rebmann 763-479-5185

Email To:
chris.kaiser@stantec.com;cory.anderson2@stan

Project Description:
GU-VIII-1 Background

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
200

Lab Project #
WMCENIA-00010

Collected by (print):
Mike Hamer

Site/Facility ID #
IA02

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK,CL,SO4 125mlHDPE-NoPres	Metals 250mlHDPE-HNO3	NH3 250mlHDPE-H2SO4	TDS 1L-HDPE NoPres	TSS 1L-HDPE NoPres	V524LL 40mlAmb-AscAcid+HCl	V524LL 40mlAmb-HCl-Blk	V8260ULL 40mlAmb-HCl	V8260ULL 40mlAmb-HCl-Blk		Remarks	Sample # (lab only)
Trip Blank		GW				2							X		X			-01
GU-VIII-1	G	GW		11/11/25	1200	11	X	X	X	X	X	X		X				-02
GU-V-2	G			11/11/25	1130	5	X	X	X	X	X							-03

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1917436

C206

Acctnum: **WMCENIA**
Template: **T237451**
Prelogin: **P1188218**
PM: **3564 - Chad A Upchurch**
PB: JD 11.3.25
Shipped Via: **FedEX Standard**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7420 1664 6697

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: X Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
	11/11/25	1600	FedEx	2
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 16
				7.4 0.9 0205
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				11/12/25 0900

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Appendix F Historical Appendix II Data Summary Table

Appendix F - Assessment Monitoring Summary

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Parameter	Date	RL	GWPS/MCL	Units	MW-11	MW-115	MW-130	MW-131	MW-132	MW-133
Organochlorine pesticides	12/22/11	-	-	ug/L	ND	--	ND	ND	ND	ND
(per EPA method 8081A)	03/28/12				ND	--	ND	ND	ND	ND
	06/26/12				ND	--	ND	ND	ND	ND
	09/26/12				ND	--	ND	ND	ND	ND
	10/14/15				--	ND	--	--	--	ND
	03/28/16				--	--	--	--	--	--
	05/24/16				--	ND	--	--	--	ND
Herbicides										
(per EPA method 8151A)	12/22/11	-	-	ug/L	ND	--	ND	ND	ND	ND
	03/28/12				ND	--	ND	ND	ND	ND
	06/26/12				ND	--	ND	ND	ND	ND
	09/26/12				ND	--	ND	ND	ND	ND
	10/14/15				--	ND	--	--	--	ND
	03/28/16				--	--	--	--	--	--
	05/24/16				--	ND	--	--	--	ND
Polychlorinated Bihenyls (PCBs)										
(per EPA method 8082)	12/22/11	-	-	ug/L	ND	--	ND	ND	ND	ND
	03/28/12				ND	--	ND	ND	ND	ND
	06/26/12				ND	--	ND	ND	ND	ND
	09/26/12				ND	--	ND	ND	ND	ND
	10/14/15				--	ND	--	--	--	ND
	03/28/16				--	--	--	--	--	--
	05/24/16				--	ND	--	--	--	ND
Semi-Volatile Organics										
(per EPA method 8270C)										
Bis(2-ethylhexyl)phthalate	12/22/11	5	6	ug/L	ND	--	ND	ND	ND	23
	03/28/12				ND	--	ND	ND	ND	ND
	06/25/12				ND	--	ND	ND	ND	ND
	09/24/12				ND	--	ND	ND	ND	ND
	10/14/15				--	ND	--	--	--	ND
	03/28/16				--	--	--	--	--	ND
	05/24/16				--	ND	--	--	--	ND
Diethyl phthalate	12/22/11	5	5600	ug/L	ND	--	ND	ND	ND	ND
	03/28/12				ND	--	ND	ND	ND	ND
	06/25/12				ND	--	ND	ND	ND	ND
	09/24/12				ND	--	ND	ND	ND*	ND
	10/14/15				--	ND	--	--	--	ND
	03/28/16				--	--	--	--	--	ND
	05/24/16				--	ND	--	--	--	ND
Butyl benzyl phthalate	12/22/11	5	140	ug/L	ND	--	ND	ND	ND	ND
	03/28/12				ND	--	ND	ND	ND	ND
	06/25/12				ND	--	ND	ND	ND	ND
	09/24/12				ND	--	ND	ND	ND*	ND
	10/14/15				--	ND	--	--	--	15
	03/28/16				--	--	--	--	--	ND
	05/24/16				--	ND	--	--	--	ND
Appendix II Inorganic Parameters										
Cyanide	12/22/11	0.01	0.2	mg/L	ND	--	ND	ND	ND	ND
	03/28/12				ND	--	ND	ND	ND	ND
	06/26/12				ND	--	ND	ND	ND	ND
	09/26/12				ND	--	ND	ND	ND	ND
	10/14/15				--	ND	--	--	--	ND
	03/28/16				--	--	--	--	--	--
	05/24/16				--	ND	--	--	--	ND
Mercury	12/22/11	0.4	2	ug/L	ND	--	ND	ND	ND	ND
	03/28/12				ND	--	ND	ND	ND	ND
	06/26/12				ND	--	ND	ND	ND	ND
	09/26/12				ND	--	ND	ND	ND	ND
	10/14/15				--	ND	--	--	--	ND
	03/28/16				--	--	--	--	--	--
	05/24/16				--	ND	--	--	--	ND
Sulfide	12/22/11	1	NA	mg/L	ND	--	ND	ND	ND	ND
	03/28/12				ND	--	ND	ND	ND	ND
	06/26/12				ND	--	ND	ND	ND	ND

Appendix F - Assessment Monitoring Summary

Central Disposal Landfill - Lake Mills, Iowa

Permit No. 95-SDP-01-72

Parameter	Date	RL	GWPS/MCL	Units	MW-11	MW-115	MW-130	MW-131	MW-132	MW-133
Sulfide	09/26/12	1	NA	mg/L	ND	--	ND	ND	ND	ND
	10/14/15				--	ND	--	--	--	ND
	03/28/16				--	--	--	--	--	--
	05/24/16				--	ND	--	--	--	ND
Tin	12/22/11	0.01	4.2	mg/L	ND	--	ND	ND	ND	ND
	03/28/12				ND	--	ND	ND	ND	ND
	06/26/12				ND	--	ND	ND	ND	ND
	09/26/12				ND	--	ND	ND	ND	ND
	10/14/15				--	ND	--	--	--	ND
	03/28/16				--	--	--	--	--	--
	05/24/16				--	ND	--	--	--	ND

Notes:

- Parameters with no history of detection are omitted from this table as of April 2016. Future dectections of currently unlisted paremeters to be added as appropriate.

RL = Reporting limit (RL); RLs may vary for individual samples and events
MCL = Maximum Contaminant Level; per United States Environmental Protection Agency (EPA)
GWPS = Groundwater Protection Standard; per Iowa Department of Natural Resources (IDNR)
ND = Parameter not detected; below Minimum Detection Level (MDL)
(XX) = Duplicate sample results in paranthesis
* = Original reported results (10 ug/L) erraneous, lab data quality review and reanalysis confirmed diethyl phthalate as not detected.
-- '= Not tested

With every community, we redefine what's possible.

Stantec is a global leader in sustainable engineering, architecture, and environmental consulting. The diverse perspectives of our partners and interested parties drive us to think beyond what's previously been done on critical issues like climate change, digital transformation, and future-proofing our cities and infrastructure. We innovate at the intersection of community, creativity, and client relationships to advance communities everywhere, so that together we can redefine what's possible.

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